

# MAIN CATALOGUE 2019 | 20 PROFESSIONAL



MotoGP™ WORLD CHAMPIONSHIP 2019|2020|2021

**35**

Cal Crutchlow



MAJOR SPONSOR

**LCR**  
TEAM  
**Honda**

# LAVOR

*SIMPLY STRONGER*



# **LAVOR**

*SIMPLY STRONGER*

Redesigning your brand – especially if it has a long history and is well known – is a process that only strong companies with a clear vision of the future can afford to go through. It means doing some soul searching and accepting new challenges while maintaining a tight focus on the objective that you are pursuing.

The path that Lavorwash has decided to undertake has led to the creation of a new logo that represents something innovative, accompanied by a payoff that summarises the company's mission.

A new logo that is based on two fundamental principles: simplification and recognisability.

Simplification that is also evident in the choice to unify the "LavorHyper" and "LavorPro" product ranges under a single strong, well-recognised brand: LAVOR.

A decision taken to get the maximum benefit from all the initiatives and investments in visibility that the company will make in the coming years.

The strengthening of the LAVOR brand, the presentation of this new trademark and the desire to be increasingly active and visible in the Italian and international markets have also led to the signing of a very important three-year sponsorship with the LCR Honda HRC MotoGP team.

In fact, the LAVOR brand will be on the fairing of the motorcycle and on Cal Crutchlow's racing suit, as well as throughout the LCR HONDA HRC paddock for the three-year period 2019-2021.





Headquarter

**Lavorwash** is worldwide leader in cleaning industry since 1975 and offers a wide and complete range of cleaning machinery suitable for any kind of applications, both indoor and outdoor relying on a fortyfour-year experience.

Over the years, Lavorwash has grown to become a specialist manufacturer of professional and household cleaning systems, acquiring various leading brands and diversifying its own range to offer innovative products of excellence.



United Kingdom



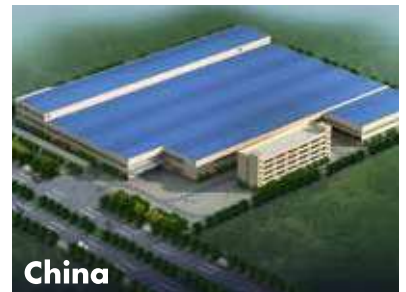
France



Spain

**Lavorwash** has production plants in Italy and around the world and nowadays it employs over 300 staff and has around 200 associates, with branches in several countries around the world such as France, the United Kingdom, Spain, Poland, Brazil and China.

**Lavorwash** is a company with a consolidated reputation at national and international levels. It operates locally through branches located around the world, delivering its products through importers, distributors, agent network and direct relations with large retailing chains



China



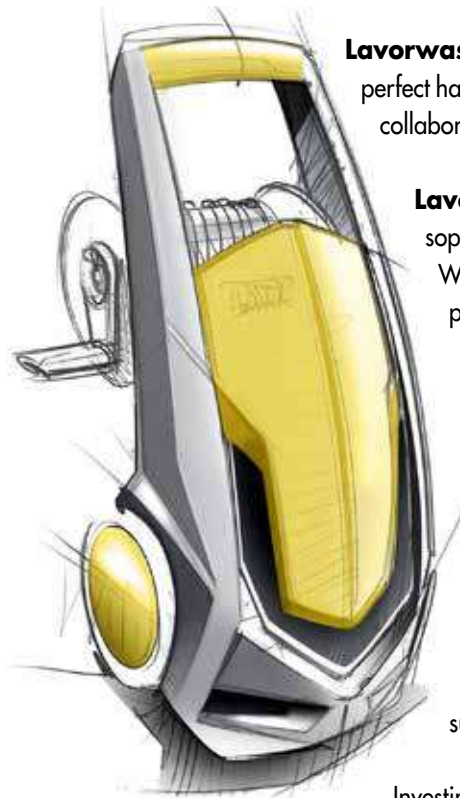
Brazil



Poland



**Lavorwash** has an extensive R&D program aimed at improving the performance, durability and quality of its products, as well as developing new models, accessories and services to meet the needs of a market with a high rate of innovation and technological change. We research the development of new products, as well as the improvement and optimization of existing models. Lavorwash tests its research: technical staff employs sophisticated and modern technological systems; products are subjected to continual functional and performance tests.



**Lavorwash** creates attractive products, by combining innovative styling, reliability and ease of use in perfect harmony. We understand the importance of ergonomics: designers and technicians work in close collaboration to manufacture products which are easy to use, safe, efficient and truly stylish.

**Lavorwash** has finalized advanced technologies, thanks to which every product is the result of a sophisticated manufacturing process.

We use production lines equipped with automatic testing stations which immediately identify any problems or defects and the assembly systems ensure constant quality levels.

**Lavorwash** supplies efficient and powerful systems ensuring high performance and the long life of the machines.

**Lavorwash** pursues constant improvement and always sets itself new goals and targets. Wide-ranging and consolidated experience, constant commitment to research, advanced manufacturing processes and customer service are the features which have resulted in Lavorwash becoming a worldleader in cleaning systems.

**Lavorwash** offers its customers consolidated and reliable support, becoming the ideal partner for a successful future.

Investing in research and development also means making strides in terms of product quality and eco-sustainability.

Whereas on the one hand, the improvement of our machines is aimed at meeting the practical needs of users, on the other hand this innovation is developed on the basis of an increasingly strong and shared environmental awareness.

First of all, the use of high pressure cleaners allows for water savings of at least 80% when compared to a normal garden hose. Moreover, we developed vacuum cleaners using high efficiency motors to achieve top performances and reduce energy consumption by 50%.





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**Cold water high-pressure cleaners  
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**Hot water high-pressure cleaners  
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**Efficiency, reliability, safety and ease of use are the basic factors for a careful selection of a professional product. On the ground of these standards, Lavor has conceived professional line high-pressure cleaners, in order to match, through high-tech products, perfect hygiene and clean with time/labour saving.**

### **Being Manufacturers: from experience to knowledge**

In the high-pressure cleaners market companies are divided in those who buy components to assemble products and manufacturers, who have a continuous R&D on all product components. Lavorwash manufactures all the high-pressure cleaners components entirely and this allows: to spread product knowledge, culture and experience inside the company; to check the entire manufacturing cycle; to adopt possible improvements immediately; better sensitivity to market request adjusting product range design in real time.

### **What high pressure cleaner? Is it better pressure or delivery rate?**

The right criteria to define the high-pressure cleaner performances is the washing effectiveness. The elements that influence this value are: delivery rate (water volume processed by the pump in a unity of time) and pressure (l/h water power on a surface). The higher the delivery rate, the faster the washing phase (less rinsing time); the higher the pressure, the deeper the washing (better dirt degreasing). It is often emphasized the pressure only (also



because the pump size and the consequent manufacturing cost are cheaper), but delivery rate is as important as pressure.

### **What pump? Is it better a linear (crankshaft) or an axial one?**

It does not exist a winning technology, because both solution can provide same performances and lifetime. What determines the pump quality is the quality of the project itself (linear or axial) and of the components used; for this reason Lavorwash



decided to develop both technologies, taking into consideration a design that grants margin of safety and reliability.



**CRANKSHAFT**

• **Linear pump:**

The movement of the (3) pistons occurs through a system of connecting rods and crankshaft. The longitudinal axle of the pistons (placed at the same level or linear) is perpendicular to the motor rotation axle. It is more versatile to bear high delivery rates (from 21 l/min) and it has a better self priming.



• **Water cooled motor:**

Water flows through the S. S. coil around the motor, this allows a better thermal exchange (and so a cooling) than air also in those countries where inlet water could reaches 60°C. This allows a drop in operating temperature of the motor and pump mechanical elements, granting a better reliability and longer life.



• **Total Stop:**

Releasing the gun trigger the pump stops automatically avoiding element damages during the by-pass phase. Pulling the trigger, the high-pressure cleaner starts automatically. Max pump protection.



• **Low voltage and delayed Total Stop:**

To avoid quick and multiple start and shut down of the motor/pump group whenever the gun trigger is pulled and released, this disposal delays of about 15 seconds the machine shut down. Prevention, energy saving, top safety and pump longer life.



• **Motor low rotation speed:**

The electric motor transfers the same number of revolutions to the pump. With a 4 poles motor there is a lower rotation speed of the components (1400 RPM in case of 50Hz or 1750 RPM in case of 60 Hz) granting longer pump life. Extending lifetime solution.



Mystic Alaska HKA LMX Bolt Arizona HA Tucson HNR Tucson XL HNR Columbia R

| Code        | Model                   | Page | Operating pressure<br>(max. pressure) | Operating pressure<br>(max. pressure) | Delivery rate | Delivery rate | Absorbed power | RPM  | Voltage  | Max. inlet water<br>temperature | Weight with<br>packaging | Packaging      | Pieces for pallet |
|-------------|-------------------------|------|---------------------------------------|---------------------------------------|---------------|---------------|----------------|------|----------|---------------------------------|--------------------------|----------------|-------------------|
|             |                         |      | bar (max bar)                         | psi (max psi)                         | l/h           | GPM           | W              | RPM  | V - Hz   | °C                              | Kg/lbs                   | cm             | n° (cm x cm)      |
| 8.661.0703  | MYSTIC 1309 XP          | 12   | 130 (150)                             | 1885(2175)                            | 540           | 2.38          | 2800           | 2800 | 230 - 50 | 40                              | 32.5/71                  | 60x38 h 72     | 12(120x80)        |
| 8.669.0001  | ALASKA 1409 XP          | 13   | 140 (180)                             | 2030 (2610)                           | 540           | 2.4           | 2800           | 2800 | 230 - 50 | 40                              | 28/62                    | 39x39 h 61     | 18(120x80)        |
| 8.669.0006  | HKA 1409 XP             | 14   | 140 (180)                             | 2030 (2610)                           | 540           | 2.40          | 2800           | 2800 | 230 - 50 | 40                              | 28                       | 39x39 h 71     | 18(120x80)        |
| 8.613.0001  | LMX 1211 XP             | 15   | 50÷120 (150)                          | 725÷1740(2175)                        | 660           | 2.91          | 3300           | 2800 | 230 - 50 | 40                              | 35.5/78                  | 60x37,5 h 72.5 | 12(120x80)        |
| 8.613.0015  | LMX 2007 XP             | 15   | 50÷200 (220)                          | 725÷2900(3190)                        | 420           | 1.85          | 3300           | 2800 | 230 - 50 | 40                              | 35.7/78                  | 60x37,5 h 72.5 | 12(120x80)        |
| 8.668.0027C | BOLT 1510 LP            | 16   | 130 (150)                             | 1885(2175)                            | 540           | 2.38          | 2800           | 2800 | 230 - 50 | 40                              | 32/70                    | 90x90 h 83     | 12(120x80)        |
| 8.665.0101  | ARIZONA 1209 LP         | 17   | 120 (150)                             | 1740(2175)                            | 510           | 2.23          | 2300           | 1450 | 230 - 50 | 40                              | 30.5/67                  | 60x38 h 72     | 12(120x80)        |
| 8.665.0106  | ARIZONA 1311 LP         | 17   | 130 (150)                             | 1885(2175)                            | 660           | 2.90          | 2900           | 1450 | 230 - 50 | 40                              | 32.5/71                  | 60x38 h 72     | 12(120x80)        |
| 8.665.0110  | ARIZONA 1311 LP         | 17   | 130 (150)                             | 1885(2175)                            | 660           | 2.90          | 2900           | 1450 | 230 - 50 | 40                              | 32.5/71                  | 60x38 h 72     | 12(120x80)        |
| 8.665.0117  | HA 1311 LP              | 18   | 130 (150)                             | 1885(2175)                            | 660           | 2.90          | 2900           | 1450 | 230 - 50 | 40                              | 32.5/71                  | 60x38 h 72     | 12(120x80)        |
| 8.665.0122  | HA 1510 LP              | 18   | 150 (160)                             | 2175(2320)                            | 600           | 2.64          | 2900           | 1450 | 230 - 50 | 40                              | 32.5/71                  | 60x38 h 72     | 12(120x80)        |
| 8.671.0001  | TUCSON 1211 LP          | 19   | 30÷120(150)                           | 435÷1740(2175)                        | 660           | 2.91          | 3000           | 1450 | 230 - 50 | 40                              | 38.6/85                  | 61x40 h 91     | 9(120x80)         |
| 8.671.0002  | TUCSON 1509 LP          | 19   | 30÷150(160)                           | 435÷2175(2320)                        | 540           | 2.38          | 3000           | 1450 | 230 - 50 | 40                              | 35/77                    | 61x40 h 91     | 9(120x80)         |
| 8.671.0003  | TUCSON 1713 LP          | 20   | 30÷170                                | 435÷2465                              | 780           | 3.43          | 6000           | 1450 | 400 - 50 | 40                              | 44/97                    | 61x40 h 91     | 9(120x80)         |
| 8.671.0004  | TUCSON 2017 LP          | 20   | 30÷200                                | 435÷2900                              | 1000          | 4.49          | 9400           | 1450 | 400 - 50 | 40                              | 46/101                   | 61x40 h 91     | 9(120x80)         |
| 8.671.0013  | HNR 1509 LP             | 21   | 150 (160)                             | 2175 (2320)                           | 540           | 2.40          | 3000           | 1450 | 230 - 50 | 40                              | 33                       | 76x41 h 75     | 9(120x80)         |
| 8.671.0014  | HNR 1713 LP             | 21   | 30÷170                                | 435÷2465                              | 780           | 3.43          | 6000           | 1450 | 400 - 50 | 40                              | 42                       | 76x41 h 75     | 9(120x80)         |
| 8.671.0015  | HNR 2017 LP             | 21   | 30÷200                                | 435÷2900                              | 1000          | 4.49          | 9400           | 1450 | 400 - 50 | 40                              | 44                       | 76x41 h 75     | 9(120x80)         |
| 8.672.0001  | TUCSON XL 2015 LP       | 22   | 30÷200                                | 435÷2900                              | 900           | 3.96          | 7000           | 1450 | 400 - 50 | 40                              | 66/145                   | 61x40 h 91     | 9 (120x80)        |
| 8.672.0002  | TUCSON XL 2021 LP       | 22   | 30÷200                                | 435÷2900                              | 1260          | 5.55          | 9400           | 1450 | 400 - 50 | 40                              | 72.3/159                 | 61x40 h 91     | 9 (120x80)        |
| 8.672.0003  | TUCSON XL 2515 LP       | 22   | 30÷250                                | 435÷3600                              | 900           | 3.96          | 9400           | 1450 | 400 - 50 | 40                              | 73/161                   | 61x40 h 91     | 9 (120x80)        |
| 8.672.0008  | HNR XL 2015 LP          | 23   | 30÷200                                | 435÷2900                              | 900           | 3.96          | 7000           | 1450 | 400 - 50 | 40                              | 65                       | 75x40 h 69     | 6(120x80)         |
| 8.672.0009  | HNR XL 2021 LP          | 23   | 30÷200                                | 435÷2900                              | 1260          | 5.55          | 9400           | 1450 | 400 - 50 | 40                              | 70                       | 75x40 h 69     | 6(120x80)         |
| 8.672.00010 | HNR XL 2515 LP          | 23   | 30÷250                                | 435÷3600                              | 900           | 3.96          | 9400           | 1450 | 400 - 50 | 40                              | 70                       | 75x40 h 69     | 6(120x80)         |
| 8.654.1071  | COLUMBIA R 1211 LP      | 24   | 30÷120 (150)                          | 435÷1812 (2175)                       | 660           | 2.91          | 3000           | 1450 | 230 - 50 | 40                              | 40/88                    | 55x62 h 59     | 12 (120x100)      |
| 8.654.1073  | COLUMBIA R 1515 LP      | 24   | 30÷150                                | 435÷2175                              | 900           | 3.96          | 5000           | 1450 | 400 - 50 | 40                              | 54/118                   | 55x62 h 59     | 12 (120x100)      |
| 8.654.1072  | COLUMBIA R 2015 LP      | 24   | 30÷200                                | 435÷2900                              | 900           | 3.96          | 7000           | 1450 | 400 - 50 | 40                              | 54/118                   | 55x62 h 59     | 12 (120x100)      |
| 8.654.1097  | COLUMBIA R Foam 1211 LP | 25   | 30÷125                                | 435-1813                              | 660           | 2.90          | 3000           | 1450 | 230 - 50 | 40                              | 60,5                     | 55x62 h 59     | 12(120x100)       |
| 8.654.0111  | COLUMBIA R Foam 2015 LP | 25   | 30÷200                                | 435÷2900                              | 900           | 3.96          | 7000           | 1450 | 400 - 50 | 40                              | 70                       | 55x62 h 59     | 12(120x100)       |



Columbia R FOAM    HCR    MCHPV    Indo E    Lena E    Thermic 5H    Thermic 6,5    Thermic 9 L    Thermic 10 D    Thermic 11H/13H    Thermic 22 H/23K

| Code        | Model             | Page | Operating pressure<br>(max. pressure) | Operating pressure<br>(max. pressure) | Delivery rate | Delivery rate | Absorbed power | RPM  | Voltage | Max inlet water<br>temperature | Weight with<br>packaging | Packaging        | Pieces for pallet |
|-------------|-------------------|------|---------------------------------------|---------------------------------------|---------------|---------------|----------------|------|---------|--------------------------------|--------------------------|------------------|-------------------|
|             |                   |      | bar (max bar)                         | psi (max psi)                         | l/h           | GPM           | W              | RPM  | V - Hz  | °C                             | Kg/lbs                   | cm               | n° (cm x cm)      |
| 8.654.0086  | HCR 1211 LP       | 26   | 30÷125                                | 435-1813                              | 660           | 2.90          | 3000           | 1450 | 230-50  | 40                             | 60,5                     | 55x62 h 59       | 12(120x100)       |
| 8.654.0087  | HCR 1515 LP       | 26   | 30÷150                                | 435-2175                              | 900           | 3.96          | 5000           | 1450 | 400-50  | 40                             | 50                       | 55x62 h 59       | 12(120x100)       |
| 8.654.0088  | HCR 2015 LP       | 26   | 30÷200                                | 435-2900                              | 900           | 3.96          | 7000           | 1450 | 400-50  | 40                             | 59                       | 55x62 h 59       | 12(120x100)       |
| 8.654.0089  | HCR 2021 LP       | 26   | 30÷200                                | 435-2900                              | 1260          | 5.55          | 9400           | 1450 | 400-50  | 40                             | 50                       | 55x62 h 59       | 12(120x100)       |
| 8.654.0123  | HCR 2515 LP       | 26   | 30÷250                                | 435-3600                              | 900           | 3.96          | 8500           | 1450 | 400-50  | 40                             | 50                       | 55x62 h 59       | 12(120x100)       |
| 8.626.0001  | MCHPV 1211 LP     | 27   | 30÷120                                | 435-1740                              | 660           | 2.90          | 3000           | 1450 | 230-50  | 40                             | 44                       | 75x50 h 35       | 9(120x80)         |
| 8.626.0002  | MCHPV 1515 LP     | 27   | 30÷150                                | 435-2175                              | 900           | 3.96          | 5000           | 1450 | 400-50  | 40                             | 45                       | 75x50 h 35       | 9(120x80)         |
| 8.626.0003  | MCHPV 2015 LP     | 27   | 30÷200                                | 435-2900                              | 900           | 3.96          | 7000           | 1450 | 400-50  | 40                             | 48                       | 75x50 h 35       | 9(120x80)         |
| 8.626.0004  | MCHPV 2021 LP     | 27   | 30÷200                                | 435-2900                              | 1260          | 5.55          | 9400           | 1450 | 400-50  | 40                             | 60                       | 75x50 h 35       | 9(120x80)         |
| 0.066.0006  | INDO 2521 E LP    | 28   | 250                                   | 435-3600                              | 1250          | 5.45          | 10000          | 1400 | 400-50  | 80                             | 140                      | 130x82 h 120     | 1 (130x82)        |
| 0.066.0007  | INDO 3518 E LP    | 28   | 350                                   | 435-5076                              | 1080          | 4.76          | 12000          | 1400 | 400-50  | 80                             | 145                      | 130x82 h 120     | 1 (130x82)        |
| 0.066.0008  | LENA 5015 E LP    | 29   | 500                                   | 7250                                  | 900           | 3.96          | 15000          | 1400 | 400-50  | 60                             | 220                      | 130x82 h 120     | 1 (130x82)        |
| 0.066.0009  | LENA 5018 E LP    | 29   | 500                                   | 7250                                  | 1080          | 4.76          | 15000          | 1400 | 400-50  | 60                             | 260                      | 130x82 h 120     | 1 (130x82)        |
| 0.066.0010  | LENA 5021 E LP    | 29   | 500                                   | 7250                                  | 1260          | 5.55          | 23000          | 1400 | 400-50  | 60                             | 285                      | 130x82 h 120     | 1 (130x82)        |
| 8.601.0107  | THERMIC 5H        | 30   | 30÷160                                | 435÷2320                              | 570           | 2.51          | 5 hp           | 3000 | -       | 40                             | 37,5/83                  | 54,5x54,5 h 69,5 | 8 (120x80)        |
| 8.601.0175C | THERMIC 6,5       | 31   | 30÷180                                | 435÷2610                              | 690           | 2.77          | 6,5hp          | 3600 | -       | 40                             | 38/84                    | 47x57 h57        | 12 (120x100)      |
| 8.601.0188C | THERMIC 9 L       | 32   | 30÷200                                | 435÷2900                              | 780           | 3.44          | 9 hp           | 3400 | -       | 40                             | 53/116                   | 70x57 h 70       | 9 (120x80)        |
| 8.601.0111  | THERMIC 10 D      | 33   | 30÷180                                | 435-2610                              | 1020          | 4.49          | 10 hp          | 1600 | -       | 40                             | 95                       | 110x68 h 96      | 1 (120x80)        |
| 8.601.0115  | THERMIC 11 H      | 34   | 30÷200                                | 435-2900                              | 1080          | 4.76          | 11 hp          | 1700 | -       | 40                             | 64                       | 104x66 h 90      | 1 (120x80)        |
| 8.601.0133  | THERMIC 13 H      | 34   | 30÷250                                | 435-3600                              | 1080          | 4.76          | 13 hp          | 1700 | -       | 40                             | 61                       | 100x66 h 92      | 1 (120x80)        |
| 8.601.0193  | THERMIC 11 HF     | 35   | 30÷200                                | 435-2900                              | 1080          | 4.76          | 11 hp          | 1700 | -       | 40                             | 64                       | 104x66 h 90      | 1 (120x80)        |
| 8.601.0194  | THERMIC 13 HF     | 35   | 30÷250                                | 435-3600                              | 1080          | 4.76          | 13 hp          | 1700 | -       | 40                             | 61                       | 100x66 h 92      | 1 (120x80)        |
| 0.066.00011 | THERMIC 22 3521 H | 36   | 350                                   | 5076                                  | 1260          | 5.55          | 22 hp          | 1560 | -       | 60                             | 195                      | 130x82 h 120     | 1 (130x82)        |
| 0.066.00012 | THERMIC 22 4018 H | 36   | 400                                   | 5800                                  | 1080          | 4.76          | 22 hp          | 1560 | -       | 60                             | 195                      | 130x82 h 120     | 1 (130x82)        |
| 0.066.00013 | THERMIC 22 5015 H | 36   | 500                                   | 7250                                  | 900           | 3.96          | 22 hp          | 1560 | -       | 60                             | 195                      | 130x82 h 120     | 1 (130x82)        |
| 0.066.00016 | THERMIC 23 3521 K | 37   | 350                                   | 5076                                  | 1260          | 5.55          | 23 hp          | 1560 | -       | 60                             | 250                      | 130x82 h 120     | 1 (130x82)        |
| 0.066.00015 | THERMIC 23 4018 K | 37   | 400                                   | 5800                                  | 1080          | 4.76          | 23 hp          | 1560 | -       | 60                             | 250                      | 130x82 h 120     | 1 (130x82)        |
| 0.066.00014 | THERMIC 23 5015 K | 37   | 500                                   | 7250                                  | 900           | 3.96          | 23 hp          | 1560 | -       | 60                             | 250                      | 130x82 h 120     | 1 (130x82)        |

### Mystic-R



**T.S.** Total Stop

#### Equipped with:

- Three steel pistons, brass axial pump head with built-in by-pass valve.
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction.
- Glycerine pressure gauge.
- Hose holder.
- Accessory holder.
- Ergonomic handle.

#### Standard equipment:

- 6.001.0143 Gun M22



- 6.002.0322 Lance M22.



- 5.012.0478 High pressure nozzle set



- 4.018.0003 High pressure hose 8 m



- Power cable 5 m

#### Optional:

- 6.608.0071 High-pressure wall mount hose reel (hose not included)
- 3.749.0472 Rotox nozzle head

#### Mystic-R 1409 XP

|                              |                               |
|------------------------------|-------------------------------|
| code                         | 8.661.0703                    |
| operat. pressure/max         | 140/180 bar - 2030/2610 psi   |
| delivery rate                | 540 l/h - 2.4 GPM             |
| abs. power/voltage           | 2800 W - 230 V ~ 50 Hz - 1 ph |
| pump type/RPM                | MPBX1/2800 RPM                |
| max. water inlet temperature | 40 °C                         |
| dimension/weight             | 43x50x85cm/28 Kg - 61,6 lbs   |

**Alaska**

**Standard equipment:**

- 6.001.0143 Gun M22



- 6.002.0322 Lance M22.



- 5.012.0478 High pressure nozzle set



- 4.018.0003 High pressure hose 8 m



- Power cable 5 m

**Optional:**

- 3.749.0472 Rotox head

**T.S.** Total Stop



**Equipped with:**

- Three steel pistons, brass axial pump head with built-in by-pass valve.
- Total Stop.
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction.
- Power cable holder.
- Accessory holder.
- Ergonomic handle.
- 1lt detergent tank.

|                              | Alaska 1409 XP                  |
|------------------------------|---------------------------------|
| code                         | 8.669.0001                      |
| operat. pressure/max         | 140/180 bar - 2030/2610 psi     |
| delivery rate                | 540 l/h - 2.4 GPM               |
| abs. power/voltage           | 2800 W - 230 V ~ 50 Hz - 1 ph   |
| Motorpump type/RPM           | MPBX1/2800 RPM                  |
| max. water inlet temperature | 40 °C                           |
| dimension/weight             | 35 x 40 h 87 - 28 Kg - 61,6 lbs |



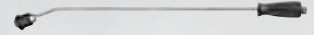
### HKA

#### Standard equipment:

- 3.700.0036 Gun M22 - 3/8.



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0048 Nozzle type 035



- 6.602.0056 ROTOX Lance



- 4.618.0090 High pressure hose R1 8 m



- Power cable 5 m

**T.S.** *Total Stop*

#### Equipped with:

- Three steel pistons, brass axial pump head with built-in by-pass valve.
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction.
- Power cable holder.
- Hose reel in pressure.
- Accessory holder.
- Ergonomic handle.
- 1l detergent tank.

|                              | HKA 1409 XP                     |
|------------------------------|---------------------------------|
| code                         | 8.669.0006                      |
| operat. pressure/max         | 140/180 bar - 2030/2610 psi     |
| delivery rate                | 540 l/h - 2.4 GPM               |
| abs. power/voltage           | 2800 W - 230 V ~ 50 Hz - 1 ph   |
| motorpump type/RPM           | MPBX1/2800 RPM                  |
| max. water inlet temperature | 40 °C                           |
| dimension/weight             | 35 x 40 h 96 - 28 Kg - 61,6 lbs |

**LMX**

**T.S.** Total Stop

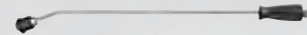


**Standard equipment:**

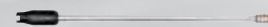
- 3.700.0036 Gun M22 - 3/8.



- 3.701.0027 Lance M22 high/low pressure (mod. 1211 XP)



- 6.602.0026 Lance M22 high/low pressure with nozzle (mod. 2007 XP)



- 3.103.0050 Nozzle type 045 (mod. 1211 XP)



- 4.618.0053 High pressure hose 10 m



- Power cable 5 m

**Equipped with:**

- Three ceramic coated pistons, brass axial pump head with built-in by-pass valve.
- Total Stop.
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction.
- Pressure regulator.
- Glycerine pressure gauge.
- Hose reel.
- Accessory holder.
- Ergonomic handle.
- 7,5 lt. detergent tank.

|                              | LMX 1211 XP                 | LMX 2007 XP                 |
|------------------------------|-----------------------------|-----------------------------|
| code                         | 8.613.0001                  | 8.613.0015                  |
| operat. pressure/max         | 120/150 bar-1740/2175 psi   | 200/220 bar-2900/3190 psi   |
| delivery rate                | 660 l/h-2.91 GPM            | 420 l/h-1.85 GPM            |
| abs. power/voltage           | 3300W - 230V~50Hz 1 ph      | 3300W - 230V~50Hz 1 ph      |
| motor/pump type/RPM          | MPBX2/2800 RPM              | MPBX2/2800 RPM              |
| max. water inlet temperature | 40 °C                       | 40 °C                       |
| dimension/weight             | 59x37x87cm/28 Kg - 61,6 lbs | 59x37x87cm/28 Kg - 61,6 lbs |

### Bolt

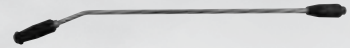


#### Standard equipment:

- 6.001.0107 Gun M22



- 6.602.0062 Lance M22.



- 4.618.0188 High pressure hose R1 10 m



- 3.102.0011 water filter

- Power cable 5 m

#### Optional:

- 5.611.0250 Hose reel set (hose not included)

**T.S.** Total Stop

#### Equipped with:

- Three ceramic coated pistons, brass linear pump head with built-in by-pass valve.
- Total stop
- Suction and delivery S. S. valves.
- Integrated detergent suction with external suction probe
- Pressure regulator.
- Glycerine pressure gauge.
- Accessory holder.
- Ergonomic handle.

#### Bolt 1510 LP

|                              |                             |
|------------------------------|-----------------------------|
| code                         | 8.668.0027C                 |
| operat. pressure             | 150 bar-2175 psi            |
| delivery rate                | 540 l/h-2,37 GPM            |
| abs. power/voltage           | 2800W - 230V~50Hz 1 ph      |
| pump type/RPM                | MP4/1450 RPM                |
| max. water inlet temperature | 40 °C                       |
| dimension/weight             | 43x50x85cm/36 Kg - 79,3 lbs |



**Arizona**



**OPTIONAL**  
Available also version  
with hose reel

Code: 8.665.0110



**Standard equipment:**

- 6.001.0143 Gun M22



- 6.002.0322 Lance M22.



- 5.012.0478 High pressure nozzle set (mod. 1209 LP)
- 5.012.0401 High pressure nozzle set (mod. 1311 LP)



- 4.618.0128 High pressure hose 8 m



- Power cable 5 m

**Available versions:**

Code: **8.665.0110**

Arizona 1311 LP **with hose reel** (10 m high pressure hose code 4.618.0053)

Code: 3.749.0472 Rotox head (mod. 1209 LP)

**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection.
- Three ceramic coated pistons, brass linear pump head with built-in by-pass valve.
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction.
- Pressure regulator.
- Glycerine pressure gauge.
- Hose reel **(optional)**.
- Accessory holder.
- Hose-holder.
- Ergonomic handle.
- 7,5 lt. detergent tank.

|                              | Arizona 1209 LP           | Arizona 1311 LP           |
|------------------------------|---------------------------|---------------------------|
| code                         | 8.665.0101                | 8.665.0106                |
| operat. pressure/max         | 120/150 bar-1740/2175 psi | 130/150 bar-1885/2175 psi |
| delivery rate                | 510 l/h-2.23 GPM          | 660 l/h-2.90 GPM          |
| abs. power/voltage           | 2300W - 230V~50Hz 1 ph    | 2900W - 230V~50Hz 1 ph    |
| motorpump type/RPM           | MP4/1450 RPM              | MP4/1450 RPM              |
| max. water inlet temperature | 40 °C                     | 40 °C                     |
| dimension/weight             | 59x37x87cm/26 Kg - 57 lbs | 59x37x87cm/28 Kg - 61 lbs |

### HA



**CRANKSHAFT**

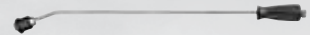


#### Standard equipment:

- 3.700.0036 Gun M22 - 3/8



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045 (mod. 1311 LP)
- 3.103.0047 Nozzle type 030 (mod. 1510 LP)



- 4.618.0049 High pressure hose 8 m



- Power cable 5 m

**T.S.** Total Stop

#### Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection.
- Three ceramic coated pistons, brass linear pump head with built-in by-pass valve.
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction.
- Pressure regulator.
- Glycerine pressure gauge.
- Accessory holder.
- Hose-holder.
- Ergonomic handle.
- 7,5 l detergent tank.

|                              | HA 1311 LP                  | HA 1510 LP                  |
|------------------------------|-----------------------------|-----------------------------|
| code                         | 8.665.0117                  | 8.665.0122                  |
| operat. pressure/max         | 130/150 bar-1885/2175 psi   | 150/160 bar-2175/2320 psi   |
| delivery rate                | 660 l/h-2.90 GPM            | 600 l/h-2.64 GPM            |
| abs. power/voltage           | 2900W - 230V~50Hz 1 ph      | 2900W - 230V~50Hz 1 ph      |
| motorpump type/RPM           | MP4/1450 RPM                | MP4/1450 RPM                |
| max. water inlet temperature | 40 °C                       | 40 °C                       |
| dimension/weight             | 59x37x87cm / 28 Kg - 61 lbs | 59x37x87cm / 28 Kg - 61 lbs |

**Tucson single-phase**

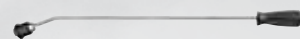


**Standard equipment:**

- 3.700.0036 Gun M22 - 3/8.



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045 (mod. 1211 LP)
- 3.103.0047 Nozzle type 030 (mod. 1509 LP)



- 4.618.0049 High pressure hose 8 m



- Power cable 5 m

**Available versions:**

Code: **8.671.0005**  
 Tucson 1509 LP **with hose reel** (10 m high pressure hose code 4.618.0053)

**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection.
- Three ceramic coated pistons, brass linear pump head with built-in by-pass valve.
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction (2,8 lt.).
- Pressure regulator.
- Glycerine pressure gauge.
- Hose-reel (**optional**).

|                              | Tucson 1211 LP              | Tucson 1509 LP              |
|------------------------------|-----------------------------|-----------------------------|
| code                         | 8.671.0001                  | 8.671.0002                  |
| operat. pressure/max         | 120/150 bar-1740/2175 psi   | 150/160 bar-2175/2320 psi   |
| delivery rate                | 660 l/h-2.91 GPM            | 540 l/h-2.37 GPM            |
| abs. power/voltage           | 3000W - 230V~50Hz 1 ph      | 3000W - 230V~50Hz 1 ph      |
| motor/pump type/RPM          | MP4/1450 RPM                | MP4/1450 RPM                |
| max. water inlet temperature | 40 °C                       | 40 °C                       |
| dimension/weight             | 76x41x75cm/33 kg - 72,6 lbs | 76x41x75cm/33 kg - 72,6 lbs |

### Tucson three-phase



**OPTIONAL**  
Available also versions  
with hose reel

Code: 8.671.0006  
Code: 8.671.0007

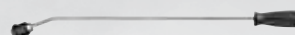


#### Standard equipment:

- 3.700.0030 Gun M22 - 3/8 with rotating coupling).



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0052 Nozzle type 055



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

#### Available versions:

Code: **8.671.0006**  
Tucson 1713 LP **with hose reel** (10 m high pressure hose code 4.618.0054)

Code: **8.671.0007**  
Tucson 2017 LP **with hose reel** (10 m high pressure hose code 4.618.0054)

#### Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling
- Three ceramic coated pistons (Tucson 2017). Three full ceramic pistons (Tucson 1713). Brass linear pump head with built-in by-pass valve.
- Suction and delivery S. S. valves.
- Low voltage and delayed Total Stop
- Detergent built-in tank for indirect suction (2,8 lt.).
- Pressure regulator.
- Glycerine pressure gauge.
- Hose-reel (**optional**).

|                              | Tucson 1713 LP              | Tucson 2017 LP              |
|------------------------------|-----------------------------|-----------------------------|
| code                         | 8.671.0003                  | 8.671.0004                  |
| operat. pressure             | 170 bar-2465 psi            | 200 bar-2900 psi            |
| delivery rate                | 780 l/h-3.43 GPM            | 1000 l/h-4.4 GPM            |
| abs. power/voltage           | 5200W - 400V~50Hz 3 ph      | 7500W - 400V~50Hz 3 ph      |
| motorpump type/RPM           | MPW4/1450 RPM               | MPW4/1450 RPM               |
| max. water inlet temperature | 40 °C                       | 40 °C                       |
| dimension/weight             | 76x40x75cm/42 kg - 92,4 lbs | 76x40x75cm/44 kg - 96,8 lbs |



**HNR**



**CRANKSHAFT**



**Standard equipment:**

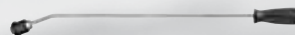
- 3.700.0036 Gun M22 - 3/8 (only version 1509)



- 3.700.0030 Gun M22 - 3/8 with rotating coupling



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0052 Nozzle type 055 (mod. 1713 LP 2017 LP)

- 3.103.0047 Nozzle type 030 (mod. 1509 LP)



- 4.618.0053 High pressure hose 10 m (mod. 1509 LP)

- 4.618.0054 High pressure hose 10 m (mod. 1713 LP 2017 LP)



- Power cable 5 m

**Available versions:**

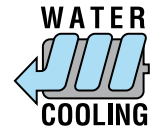
Code: **8.671.0031**  
HNR 1509 LP **without hose reel**

**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling (mod. 1713 LP 2017 LP)
- Three ceramic coated pistons (Hyper NR 1509/NR 2017).
- Three full ceramic pistons (Hyper NR 1713).
- Built-in by-pass valve nickel plating brass linear pump head with high temperature water seals and bushing.
- Suction and delivery S. S. valves.
- Low voltage and delayed Total Stop (mod. 1713 LP 2017 LP)
- Detergent built-in tank for indirect suction (2,8 lt.).
- Pressure regulator.
- Glycerine pressure gauge.
- Hose-reel.

|                              | HNR 1509 LP                   | HNR 1713 LP                   | HNR 2017 LP                   |
|------------------------------|-------------------------------|-------------------------------|-------------------------------|
| code                         | 8.671.0013                    | 8.671.0014                    | 8.671.0015                    |
| operat. pressure             | 150/160 bar-2175/2320 psi     | 170 bar-2465 psi              | 200 bar-2900 psi              |
| delivery rate                | 540 l/h-2.37 GPM              | 780 l/h-3.43 GPM              | 1000 l/h-4.4 GPM              |
| abs. power/voltage           | 3000W - 230V~50Hz 1 ph        | 5200W - 400V~50Hz 3 ph        | 7500W - 400V~50Hz 3 ph        |
| motorpump type/RPM           | MP4 Ni/1450 RPM               | MPW4 Ni/1450 RPM              | MPW4 Ni/1450 RPM              |
| max. water inlet temperature | 40 °C                         | 40 °C                         | 40 °C                         |
| dimension/weight             | 76x41x75cm / 33 kg - 72,6 lbs | 76x40x75cm / 42 kg - 92,4 lbs | 76x40x75cm / 44 kg - 96,8 lbs |

## Tucson XL

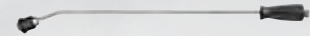


### Standard equipment:

- 3.700.0030 Gun M22 - 3/8 with rotating coupling).



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045 (mod. 2015 LP)
- 3.103.0055 Nozzle type 070 (mod. 2021 LP)
- 3.103.0049 Nozzle type 040 (mod. 2515 LP)



- 4.618.0054 High pressure hose 10 m



- Power cable 5 m

### Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling.
- Three full ceramic pistons, brass linear pump head with by-pass valve.
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction (2,8 lt.).
- Pressure regulator.
- Glycerine pressure gauge.

|                              | Tucson XL 2015 LP          | Tucson XL 2021 LP          | Tucson XL 2515 LP          |
|------------------------------|----------------------------|----------------------------|----------------------------|
| code                         | 8.672.0001                 | 8.672.0002                 | 8.672.0003                 |
| operat. pressure             | 200 bar-2900 psi           | 200 bar-2900 psi           | 250 bar-3600 psi           |
| delivery rate                | 900 l/h-3.96 GPM           | 1260 l/h-5.55 GPM          | 900 l/h-3.96 GPM           |
| abs. power/voltage           | 7000W - 400V~50Hz 3ph      | 9400W - 400V~50Hz 3ph      | 9400W - 400V~50Hz 3ph      |
| pump type/RPM                | MPW5/1450 RPM              | MPW5/1450 RPM              | MPW5/1450 RPM              |
| max. water inlet temperature | 40 °C                      | 40 °C                      | 40 °C                      |
| dimension/weight             | 61x40x91cm/69 Kg - 152 lbs | 61x40x91cm/70 Kg - 154 lbs | 61x40x91cm/70 Kg - 154 lbs |



**HNR XL**

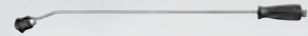


**Standard equipment:**

- 3.700.0030 Gun M22 - 3/8 with rotating coupling).



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045 (mod. 2015 LP)
- 3.103.0055 Nozzle type 070 (mod. 2021 LP)
- 3.103.0049 Nozzle type 040 (mod. 2515 LP)



- 4.618.0054 High pressure hose 10 m



- Power cable 5 m

**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling.
- Three full ceramic pistons, Nickel plating brass linear pump head with high temperature water seals and bushing.
- Low voltage and delayed Total Stop.
- Suction and delivery S.S. valves.
- Detergent built-in tank for indirect suction (2,8 lt.).
- Pressure regulator.
- Glycerine pressure gauge.

|                              | HNR XL 2015 LP               | HNR XL 2021 LP               | HNR XL 2515 LP               |
|------------------------------|------------------------------|------------------------------|------------------------------|
| code                         | 8.672.0008                   | 8.672.0009                   | 8.672.0010                   |
| operat. pressure             | 200 bar-2900 psi             | 200 bar-2900 psi             | 250 bar-3600 psi             |
| delivery rate                | 900 l/h-3.96 GPM             | 1260 l/h-5.55 GPM            | 900 l/h-3.96 GPM             |
| abs. power/voltage           | 7000W - 400V~50Hz 3ph        | 9400W - 400V~50Hz 3ph        | 9400W - 400V~50Hz 3ph        |
| motor/pump type/RPM          | MPW5 Ni/1450 RPM             | MPW5 Ni/1450 RPM             | MPW5 Ni/1450 RPM             |
| max. water inlet temperature | 40 °C                        | 40 °C                        | 40 °C                        |
| dimension/weight             | 61x40x91cm / 69 Kg - 152 lbs | 61x40x91cm / 70 Kg - 154 lbs | 61x40x91cm / 70 Kg - 154 lbs |

### Columbia-R



Models: 1515 LP - 2015 LP



Models: 1211 LP



Models: 1515 LP/2015 LP



CRANKSHAFT

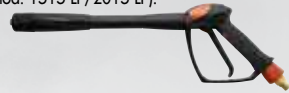


#### Standard equipment:

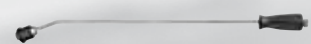
- 3.700.0036 Gun M22 - 3/8" (mod 1211 LP).



- 3.700.0030 Gun M22 - 3/8" with rotating coupling (mod. 1515 LP/2015 LP).



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045 (mod. 1211 LP/2015 LP)

- 3.103.0053 Nozzle type 060 (mod. 1515 LP)



- 4.618.0049 High pressure hose 8 m (mod. 1211 LP)

- 4.618.0143 High pressure hose 10 m (mod. 1515 LP/2015 LP).



- Power cable 5 m (mod. 1211 LP)

- Power cable 6 m (mod. 1515 LP - 2015 LP)

#### Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling (three phase models).
- Three ceramic coated pistons (1 ph), full ceramic pistons (3 ph), brass linear pump head with built-in by-pass valve.
- Low voltage and delayed Total Stop (three phase model).
- Suction and delivery S. S. valves.
- Integrated detergent suction with external suction probe.
- Pressure regulator.
- Glycerine pressure gauge.
- Hose reel (**optional**).
- Accessory holder.
- Power cable holder.
- Steel frame.
- Steel cover.

#### Optional:

- 6.608.0068 High-pressure hose reel (hose not included)



|                              | Columbia R 1211 LP        | Columbia R 1515 LP         | Columbia R 2015 LP         |
|------------------------------|---------------------------|----------------------------|----------------------------|
| code                         | 8.654.1071                | 8.654.1073                 | 8.654.1072                 |
| operat. pressure/max         | 120/150 bar-1740/2175 psi | 150 bar-2175 psi           | 200 bar-2900 psi           |
| delivery rate                | 660 l/h-2.91 GPM          | 900 l/h-3.96 GPM           | 900 l/h-3.96 GPM           |
| abs. power/voltage           | 3000W - 230V~50Hz 1 ph    | 5000W - 400V~50Hz 3 ph     | 7000W - 400V~50Hz 3 ph     |
| motor/pump type/RPM          | MP4/1450 RPM              | MPW4/1450 RPM              | MPW4/1450 RPM              |
| max. water inlet temperature | 40 °C                     | 40 °C                      | 40 °C                      |
| dimension/weight             | 50x90x83cm/37 kg - 81 lbs | 50x90x83cm/49 Kg - 108 lbs | 50x90x83cm/51 Kg - 112 lbs |



**HCR**



**Standard equipment:**

- 3.700.0036 Gun M22 - 3/8" (mod 1211 LP).



- 3.700.0030 Gun M22 - 3/8" with rotating coupling (mod. 1515 LP/2015 LP/2021 LP/2515 LP).



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045 (mod. 1211 LP /2015 LP)
- 3.103.0053 Nozzle type 060 (mod. 1515 LP)
- 3.103.0055 Nozzle type 070 (mod. 2021 LP)
- 3.103.0049 Nozzle type 040 (mod. 2515 LP)



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling.
- Three ceramic pistons, Nickel plating brass linear pump head with high temperature water seals and bushing.
- Integrated elastic joint, for best pump coupling (except model 1211).
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Integrated detergent suction with external suction probe.
- Pressure regulator.
- Glycerine pressure gauge.
- Hose reel (**optional**).
- Steel frame.
- Stainless Steel covers.



**Integrated elastic joint, for best pump coupling (except model 1211).**

**Optional:**

- 6.608.0068 High-pressure hose reel (hose not included)



|                              | HCR 1211 LP                 | HCR 1515 LP                 | HCR 2015 LP                  | HCR 2021 LP                  | HCR 2515 LP                  |
|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| code                         | 8.654.0086                  | 8.654.0087                  | 8.654.0088                   | 8.654.0089                   | 8.654.0123                   |
| operat. pressure             | 125 bar-1812 psi            | 150 bar-2175 psi            | 200 bar-2900 psi             | 200 bar-2900 psi             | 250 bar-3600 psi             |
| delivery rate                | 660 l/h-2.91GPM             | 900 l/h-3.96 GPM            | 900 l/h-3.96 GPM             | 1260 l/h-5.55 GPM            | 900 l/h-3.96 GPM             |
| abs. power/voltage           | 3000W - 230V~50Hz 1ph       | 5000W - 400V~50Hz 3ph       | 7000W - 400V~50Hz 3ph        | 9400W - 400V~50Hz 3ph        | 8500W - 400V~50Hz 3ph        |
| motorpump type/RPM           | MPW5 Ni/1450 RPM            | MPWJ5 Ni/1450 RPM           | MPWJ5 Ni/1450 RPM            | MPWJ5 Ni/1450 RPM            | MPWJ5 Ni/1450 RPM            |
| max. water inlet temperature | 40 °C                       | 40 °C                       | 40 °C                        | 40 °C                        | 40 °C                        |
| dimension/weight             | 50x90x83cm / 42 Kg - 92 lbs | 50x90x83cm / 54 Kg -119 lbs | 50x90x83cm / 56 Kg - 123 lbs | 50x90x83cm / 58 Kg - 128 lbs | 50x90x83cm / 59 kg - 130 lbs |

**WATER COOLING**  
Models:  
2015 LP

**FOAM SYSTEM**

**T.S.** Total Stop 24V  
Only version  
2015

**T.S.** Total Stop



**Columbia R Foam 2015 LP**

### Columbia-R FOAM



**WITH INTEGRATED FOAMING SYSTEM**

#### Standard equipment:

- 3.700.0036 Gun M22 - 3/8 (only version 1211)
- 3.700.0030 Gun M22 - 3/8 with rotating coupling
- 3.701.0027 Lance high/low pressure M22
- 3.103.0050 High pressure nozzle
- 6.402.0109 Detergent lance
- 3.099.0705 8 m detergent hose for lance
- 4.618.0049 High pressure hose 8 m (only version 1211)
- 4.618.0143 High pressure hose 10 m

#### Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection
- Pump with Nickel plated brass head with three ceramic pistons, by-pass valve, high temperature resistant seals
- Total Stop and water cooling (three phase models)
- Suction and delivery stainless steel valves
- Pressure regulator.
- Glycerine pressure gauge
- Galvanized steel frame
- Stainless steel cover
- **Provided with compressed air connection regulator and pressure gauge perform dense foam cleaning**
- By using the detergent lance with 8 meters hose it will be produced a dense foam that will remain attached to the parts to be cleaned, giving more effectiveness to the detergent's action.



• Integrated elastic joint, for best pump coupling (only version 2015)



**Columbia R Foam 1211 LP**

|                     | Columbia R Foam 1211 LP     | Columbia R Foam 2015 LP      |
|---------------------|-----------------------------|------------------------------|
| code                | 8.654.1097                  | 8.654.0111                   |
| operat. pressure    | 120 bar-1740 psi            | 200 bar-2900 psi             |
| delivery rate       | 660 l/h-2.91 GPM            | 900 l/h-3.96 GPM             |
| abs. power/voltage  | 3000 W - 230V~50Hz 1ph      | 7000W - 400V~50Hz 3ph        |
| motor/pump type/RPM | MP4 Ni/1450 RPM             | MPWJ5 Ni/1450 RPM            |
| detergent pump      | 2 x 15 bar - 48 W           | 2 x 15 bar - 48 W            |
| Dimension/weight    | 50x90x83cm / 42 Kg - 92 lbs | 50x90x83cm / 56 Kg - 123 lbs |

**MCHP**



Only 2021 LP



**T.S.** Total Stop  
Models: 1211 LP

**T.S.** Total Stop 24V  
Models: 1515 LP/2015 LP/2021 LP



Models: 1515 LP/2015 LP  
2021 LP

**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling (three phase models).
- Three ceramic coated pistons (1 ph), full ceramic pistons (3 ph), brass linear pump head with built-in by-pass valve.
- Integrated elastic joint, for best pump coupling (three phase models).
- Low voltage and delayed Total Stop (three phase models).
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction.
- Pressure regulator. Glycerine pressure gauge.
- Pressure accumulator (only model 2021).
- Wall mount support (optional code 6.608.0030).
- Galvanized steel frame.
- Plastic covers models MCHPV.



**Integrated elastic joint, for best pump coupling (except model 1211).**

**Optional: Recommended accessories:**

- 6.605.0213 **For food industry:**  
3.700.0022 Gun + 3.701.0020 S.S lance + 4.618.0058 10mt Hose AP food + 3.100.0042 Hose adapter + 3.100.0043 Hose adapter/Gun



- 6.605.0214 **For industry:**  
3.700.0030 Gun + 3.701.0015 lance + 4.618.0143 10mt Hose AP + 3.100.0042 Hose adapter



- 3.103.0148 - Nozzle 045 (mod. 1211 LP)
- 3.103.0150 - Nozzle 060 (mod. 1515 LP)
- 3.103.0148 - Nozzle 045 (mod. 2015 LP)
- 3.103.0175 - Nozzle 075 (mod. 2021 LP)



- 6.608.0030 - Brackets for wall mounting

**Available:**

- 8.626.0037** - MCHPX 1211 LP with stainless steel frame and fairings
- 8.626.0038** - MCHPX 2015 LP with stainless steel frame and fairings



|                              | MCHPV 1211 LP              | MCHPV 1515 LP              | MCHPV 2015 LP               | MCHPV 2021 LP               |
|------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| code                         | 8.626.0001                 | 8.626.0002                 | 8.626.0003                  | 8.626.0004                  |
| operat. pressure/max         | 120 bar-1740 psi           | 150 bar-2175 psi           | 200 bar-2900 psi            | 200 bar-2900 psi            |
| delivery rate                | 660 l/h-2.91GPM            | 900 l/h-3.96 GPM           | 900 l/h-3.96 GPM            | 1260 l/h-5.55 GPM           |
| abs. power/voltage           | 3000W - 230V~50Hz 1ph      | 5000W - 400V~50Hz 3ph      | 7000W - 400V~50Hz 3ph       | 9400W - 400V~50Hz 3ph       |
| motor/pump type/RPM          | MP4/1450 RPM               | MPWJ5/1450 RPM             | MPWJ5/1450 RPM              | MPWJ5/1450 RPM              |
| max. water inlet temperature | 40 °C                      | 40 °C                      | 40 °C                       | 40 °C                       |
| dimension/weight             | 75x50x35cm/ 42 Kg - 92 lbs | 75x50x35cm/ 43 Kg - 95 lbs | 75x50x35cm/ 46 Kg - 101 lbs | 75x50x35cm/ 58 Kg - 128 lbs |

### Indo E

**PRESSURE**  
250/350 bar



#### Standard equipment:

- 0.966.0003 Gun ML 955 - M22 with quick coupling (mod. 2521)
- 0.966.0004 Gun ML 955 - M24 with quick coupling (mod. 3518)



- 0.966.0007 lance SF40 mecline M22 (mod.2521)
- 0.966.0008 lance SF40 mecline M24 (mod.3518)



- 0.966.0037 Nozzle type 040 (mod. 3518 LP)
- 0.966.0036 Nozzle type 055 (mod. 2521 LP)



- 0.966.0011 High pressure hose 10 m (mod.2521)
- 0.966.0012 High pressure hose 10 m (mod.3518)



- Power cable 5 m

#### Equipped with:

- Motor 12-15 hp
- Heavy duty structure with stainless steel covers
- High filtering capacity cartridge suction brass filter
- TW Triplex Premium pumps
- Pressure gauge with stainless steel casing
- Hot water seals 4-poles (1400 rpm) motor well oversized and protected with paint. Ø 300 wheels with brake
- Highly professional unloader valve with external bypass
- Motor-pump with flexible joint
- Timed Total Stop
- Low voltage control panel
- Contactor
- Thermal relay motor protection
- Hose reel with 20 mt hose can be mounted on request (cod. 0.966.0033 mod. 2521/cod. 0.966.0034 mod. 3518)
- Practical and safe housing accessories



#### Optional:

- Rotax lance
- cod. 0.966.0014 (mod. 2521)
  - cod. 0.966.0015 (mod. 3518)

- Pipe cleaning hose 25 m.
- cod. 0.966.0020 (mod. 2521)
  - cod. 0.966.0021 (mod.3518)

- Extension hose 10 m.
- cod. 0.966.0024 (mod. 2521)
  - cod. 0.966.0025 (mod. 3518)

- Sand-blasting lance 500 bar
- cod. 0.966.0028 (mod. 2521)
  - cod. 0.966.0029 (mod. 3518)

#### On request 60Hz version

|                              | Indo 2521 E LP                 | Indo 3518 E LP                 |
|------------------------------|--------------------------------|--------------------------------|
| code                         | 0.066.0006                     | 0.066.0007                     |
| operat. pressure             | 250 bar-3626 psi               | 350 bar-5076 psi               |
| delivery rate                | 1260 l/h-5.55 GPM              | 1080 l/h-4.75 GPM              |
| abs. power/voltage           | 10000W - 41.5 V~50 Hz 3 ph     | 12000W - 41.5 V~50 Hz 3 ph     |
| RPM                          | 1400 RPM                       | 1400 RPM                       |
| max. water inlet temperature | 80 °C                          | 80 °C                          |
| dimension/weight             | 126x74x98cm/125 Kg - 275,5 lbs | 126x74x98cm/130 Kg - 286,5 lbs |

**Lena E**



**PRESSURE  
500 bar**



**Standard equipment:**

- 0.966.0005 Gun ML 960 with quick coupling M24-M24 (mod.5015/5018)



- 0.966.0006 Gun ML 710 with quick coupling M24-M24 (mod.5021)



- 0.966.0009 S/S Lance 500 bar L50 (mod.5015/5018)

- 0.966.0010 S/S Lance 500 bar L70 (mod.5021)



- 0.966.0038 Nozzle type 028 (mod. 5015)
- 0.966.0039 Nozzle type 035 (mod. 5018)
- 0.966.0040 Nozzle type 040 (mod. 5021)



- 0.966.0013 High pressure hose 10 m



- Power cable 5 m

**Optional:**

Rotax lance

- cod. 0.966.0016 (mod. 5015)
- cod. 0.966.0017 (mod. 5018)
- cod. 0.966.0018 (mod. 5021)

Pipe cleaning hose 25 m.

- cod. 0.966.0022 (mod. 5015)
- cod. 0.966.0023 (mod. 5018/5021)

Extension hose 20 m.

- cod. 0.966.0026

Sand-blasting lance 500 bar

- cod. 0.966.0030 (mod. 5015)
- cod. 0.966.0031 (mod. 5018/5021)

**Equipped with:**

- Sturdy frame painted with anti-corrosive treatment
- Stainless steel cover panels
- Handy lance and gun storage
- High filtering capacity cartridge suction filter
- Ø 300 industrial wheels with brake
- Electric motor (1400 rpm) 20,25 and 30 HP
- Comet TW 500 Premium pumps
- Motor-pump coupling by means of a flexible joint
- Automatic unloader valve with external bypass and gradual pressure restoring (on 5018 and 5021 models)
- Overheating thermostatic valve
- Low voltage (24V) start-up panel (star-delta)
- Remote switch and motor cut-out with thermal relay
- Emergency stop button
- **Hour counter**
- Hose reel with 20 mt hose can be mounted on request (cod. 0.966.0035)

**On request 60Hz version**

|                              | Lena 5015 E LP                   | Lena 5018 E LP                   | Lena 5021 E LP                   |
|------------------------------|----------------------------------|----------------------------------|----------------------------------|
| code                         | 0.066.0008                       | 0.066.0009                       | 0.066.0010                       |
| operat. pressure             | 500 bar-7252 psi                 | 500 bar-7252 psi                 | 500 bar-7252 psi                 |
| delivery rate                | 900 l/h-3.96 GPM                 | 1080 l/h-4.75 GPM                | 1260 l/h-5.55 GPM                |
| abs. power/voltage           | 15000W - 380/415V~50Hz 3 ph      | 18500W - 380/415V~50Hz 3 ph      | 23000W - 380/415V~50Hz 3 ph      |
| RPM                          | 1400 RPM                         | 1400 RPM                         | 1400 RPM                         |
| max. water inlet temperature | 60 °C                            | 60 °C                            | 60 °C                            |
| dimension/weight             | 118,5x74x100 cm/205 Kg - 452 lbs | 118,5x74x100 cm/260 Kg - 573 lbs | 118,5x74x100 cm/285 Kg - 628 lbs |

### Thermic 5 H

POWERED by  
**HONDA**



**T.V.** Thermal Valve

#### Equipped with:

- Three ceramic coated pistons, brass axial pump head with built-in by-pass valve.
- Suction and delivery S. S. valves. 5 HP **Honda** GP 160 unleaded gasoline engine.
- Integrated detergent suction with external suction probe.
- Pressure regulator.
- Glycerine pressure gauge.
- Hose reel (**optional**).
- Suction hose with check valve (**optional**).
- Steel frame.
- Hose holder.
- 3,1 l gasoline tank.

#### Standard equipment:

- 3.700.0036 Gun M22 - 3/8"



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0048 Nozzle type 035



- 4.618.0049 High pressure hose 8 m



#### Optional:

- 6.608.0007 High-pressure hose reel (hose not included)
- 5.012.0319 Suction hose with check valve



#### Thermic 5H

|                        |                           |
|------------------------|---------------------------|
| code                   | 8.601.0107                |
| operat. pressure       | 160 bar-2320 psi          |
| delivery rate          | 570 l/h-2.51 GPM          |
| engine type/hp         | Honda GP 160/5            |
| pump type/RPM          | TPBH4/3000 RPM            |
| max. water inlet temp. | 40 °C                     |
| dimension/weight       | 70x59x97cm/37 Kg - 81 lbs |

## Thermic 6,5



**T.V.** Thermal Valve

### Equipped with:

- Three ceramic coated pistons, brass linear pump head with built-in by-pass valve.
- Suction and delivery S/S valves.
- 6.5 HP unleaded gasoline engine.
- Integrated detergent suction with external suction probe.
- Glycerine pressure gauge.
- Hose-reel (**optional**).
- Suction hose with check valve (**optional**).
- Steel frame.
- Hose holder.
- Nozzles holder.
- 3,1 l gasoline tank.

### Standard equipment:

- 6.001.0082 Gun M22 - 1/4"



- 6.002.0322 Lance M22 with nozzle-holder.



- 5.012.0477 High pressure nozzle set



- 4.618.0166 High pressure hose 10 m



### Optional:

- cod. 6.608.0007 High-pressure hose-reel (hose not included)
- Suction hose with check valve 5.012.0319



|                         | Thermic 6,5                           |
|-------------------------|---------------------------------------|
| code                    | 8.601.0175C                           |
| operat. pressure max    | 180 bar - 2610 PSI                    |
| delivery rate           | 690 l/h - 2.77 GPM                    |
| engine type/hp          | Lavor/6,5                             |
| pump type/RPM           | MP4/3600 RPM                          |
| max. temp. inlet/outlet | 40 °C                                 |
| dimension/weight        | 47 x 57 x 57(h) cm/38,5 Kg - 84.9 lbs |

### Thermic 9 L



#### Standard equipment:

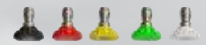
- 3.700.0036 Gun M22 - 3/8"



- 6.002.0322 Lance M22 with nozzle-holder



- 5.012.0282 High pressure nozzle set



- 4.618.0012 High pressure hose 10 m



#### Equipped with:

- Three ceramic coated pistons, brass linear pump head with built-in by-pass valve
- Suction and delivery S/S valves
- 9 HP unleaded gasoline engine.
- By-pass with safety valve.
- Integrated detergent suction with external suction probe.
- Pressure regulator.
- Suction hose with check valve **(optional)**.
- Hose holder.
- Nozzles holder.
- 4 l gasoline tank.



#### Optional:

- 5.012.0319 Suction hose with check valve



|                        | Thermic 9 L                   |
|------------------------|-------------------------------|
| code                   | 8.601.0188C                   |
| operat. pressure/max   | 220/250 bar - 3190/3625 psi   |
| delivery rate          | 900 l/h - 3.96 GPM            |
| engine type/hp         | Lavor/9                       |
| pump type/RPM          | TPBH5/3400 RPM                |
| max. water inlet temp. | 40 °C                         |
| dimension/weight       | 50x67x 103 cm/45 Kg - 101 lbs |



## Thermic 10 D



**CRANKSHAFT**



**DIESEL**

**T.V.** Thermal Valve



### Equipped with:

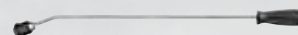
- Three ceramic pistons, brass linear pump head with built-in by-pass valve.
- 1450 RPM reducer between engine and pump.
- By-pass with safety valve.
- Automatic RPM regulation.
- Electrical start with engine functions control.
- Lombardini diesel engine 15LD400 (air cooled).
- Integrated detergent suction with external suction probe. Pressure regulator.
- Glycerine pressure gauge.
- Suction hose with check valve **(optional)**.
- Heavy duty steel frame.
- Battery included.
- 30 lt. Diesel tank.

### Standard equipment:

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.701.0027 Lance M22 high/low pressure.



- 3.103.0053 Nozzle type 060



- 4.618.0143 High pressure hose 10 m



### Optional:

- 5.012.0319 Suction hose with check valve



| Thermic 10 D           |                               |
|------------------------|-------------------------------|
| code                   | 8.601.0111                    |
| operat. pressure       | 180 bar-2465 psi              |
| delivery rate          | 1020 l/h-4.49 GPM             |
| engine type/hp         | Lombardini 15LD400/10         |
| pump type/RPM          | CL5/1450 RPM                  |
| max. water inlet temp. | 40 °C                         |
| dimension/weight       | 100x66x92cm / 82 Kg - 180 lbs |

### Thermic 11 H

### Thermic 13 H

POWERED by  
**HONDA**



**T.V.** Thermal Valve



#### Equipped with:

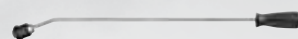
- Three ceramic pistons, brass linear pump head.
- 1450 RPM reducer between engine and pump.
- Automatic RPM regulation.
- By-pass with safety valve.
- Suction and delivery S. S. valves.
- Unleaded gasoline engine 11 HP **Honda GX 340**. (Thermic 11 H)
- Unleaded gasoline engine 13 HP **Honda GX 390**. (Thermic 13 H)
- Integrated detergent suction with external suction probe.
- Pressure regulator.
- Glycerine pressure gauge.
- Heavy duty steel frame.
- 6,5 l gasoline tank.
- Suction hose with check valve (**optional** cod. 5.012.0319).

#### Standard equipment:

- 3.700.0030 Gun M22 - 3/8 with rotating coupling.



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0054 Nozzle type 065 (Thermic 11 H)
- 3.103.0051 Nozzle type 050 (Thermic 13 H)



- 4.618.0143 High pressure hose 10 m



#### Optional:

- Protective frame with lifting hooking (optional cod. 5.613.0145).
- Hose reel optional cod. 6.608.0060 (hose not included) in combination with protective frame.



|                        | Thermic 11 H                  | Thermic 13 H                  |
|------------------------|-------------------------------|-------------------------------|
| code                   | 8.601.0115                    | 8.601.0133                    |
| operat. pressure       | 200 bar-2900 psi              | 250 bar-3625 psi              |
| delivery rate          | 1080 l/h-4.76 GPM             | 1080 l/h-4.76 GPM             |
| engine type/hp         | Honda GX 340/11               | Honda GX 390/13               |
| pump type/RPM          | CL5/1450 RPM                  | CL5/1450 RPM                  |
| max. water inlet temp. | 40 °C                         | 40 °C                         |
| dimension/weight       | 100x66x92cm / 61 Kg - 134 lbs | 100x66x92cm / 61 Kg - 134 lbs |

**Thermic 11 HF**

**Thermic 13 HF**

POWERED by  
**HONDA**



**Equipped with:**

- Three ceramic pistons, brass linear pump head.
- 1450 RPM reducer between engine and pump.
- Automatic RPM regulation.
- By-pass with safety valve.
- Suction and delivery S. S. valves.
- Unleaded gasoline engine 11 HP **Honda** GX 340. (Thermic 11 HF)
- Unleaded gasoline engine 13 HP **Honda** GX 390. (Thermic 13 HF)
- Integrated detergent suction with external suction probe.
- Pressure regulator.
- Glycerine pressure gauge.
- Heavy duty steel frame.
- 6,5 l gasoline tank.
- Suction hose with check valve (**optional** cod. 5.012.0319).

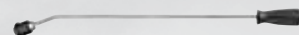


**Standard equipment:**

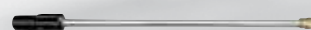
- 3.700.0030 Gun M22 - 3/8 with rotating coupling.



- 3.701.0027 Lance M22 high/low pressure



- 6.602.0040 Turbo lance M22 (only mod. 13 HF)



- 3.103.0054 Nozzle type 065 (Thermic 11 H)
- 3.103.0051 Nozzle type 050 (Thermic 13 H)



- 4.618.0143 High pressure hose 10 m



**Optional:**

- Hose reel optional cod. 6.608.0060 (hose not included) in combination with protective frame.



|                        | Thermic 11 HF                 | Thermic 13 HF                 |
|------------------------|-------------------------------|-------------------------------|
| code                   | 8.601.0193                    | 8.601.0194                    |
| operat. pressure       | 200 bar-2900 psi              | 250 bar-3625 psi              |
| delivery rate          | 1080 l/h-4.76 GPM             | 1080 l/h-4.76 GPM             |
| engine type/hp         | Honda GX 340/11               | Honda GX 390/13               |
| pump type/RPM          | CL5/1450 RPM                  | CL5/1450 RPM                  |
| max. water inlet temp. | 40 °C                         | 40 °C                         |
| dimension/weight       | 100x66x92cm / 65 Kg - 143 lbs | 100x66x92cm / 65 Kg - 143 lbs |

POWERED by  
**HONDA**™

### Thermic 22 H



**PRESSURE**  
350-500 bar

**T.V.** Thermal Valve



#### Equipped with:

- Comet TW Premium, TW 500 bar Premium pumps with brass pump head and ceramic pistons
- Honda engine GX 690
- Gearbox (with 1560 rpm pump)
- Electrical starting
- Ø 300 industrial wheels with brake
- No engine-oil safety device (oil-alert)
- **Hour counter**
- Automatic decelerator to reduce the number of revs in the bypass phase
- Stainless steel gradual pressure restoration valve with EASY-START
- Thermostatic valve
- Water filter, readily serviceable cartridge type
- Water suction from external tank option (self priming pumps)
- Hose reel with 20 mt hose can be mounted on request (cod. 0.966.0035)

#### Standard equipment:

- 0.966.0006 Gun ML 710 with quick coupling M24-M24



- 0.966.0010 S/S Lance 500 bar L70 M24



- 0.966.0041 Nozzle 050 - (mod. 3521)
- 0.966.0040 Nozzle 040 - (mod. 4018)
- 0.966.0038 Nozzle 028 - (mod. 5015)



- 0.966.0013 High pressure hose 10 m



#### Optional:

##### Rotox lance

- cod. 0.966.0019 (mod.3521)
- cod. 0.966.0018 (mod.4018)
- cod. 0.966.0016 (mod.5015)

##### Pipe cleaning hose 25 m.

- cod. 0.966.0023 (mod.3521/4018)
- cod. 0.966.0022 (mod.5015)

##### Extension hose 20 m.

- cod. 0.966.0027 (mod.3521)
- cod. 0.966.0026 (mod.4018/5015)

##### Sand-blasting lance 500 bar

- cod. 0.966.0032 (mod.3521)
- cod. 0.966.0031 (mod.4018)
- cod. 0.966.0030 (mod.5015)

|                        | Thermic 22 3521 H             | Thermic 22 4018 H             | Thermic 22 5015 H             |
|------------------------|-------------------------------|-------------------------------|-------------------------------|
| code                   | 0.066.0011                    | 0.066.0012                    | 0.066.0013                    |
| operat. pressure       | 350 bar-5076 psi              | 400 bar-5801 psi              | 500 bar-7252 psi              |
| delivery rate          | 1260 l/h-5.55 GPM             | 1080 l/h-4.75 GPM             | 900 l/h-3.96 GPM              |
| engine type/hp         | Honda GX 690/22               | Honda GX 690/22               | Honda GX 690/22               |
| pump type/RPM          | TW 500/1560 RPM               | TW 500/1560 RPM               | TW 500/1560 RPM               |
| max. water inlet temp. | 60 °C                         | 60 °C                         | 60 °C                         |
| dimension/weight       | 118,5x74x102cm/180 Kg-397 lbs | 118,5x74x102cm/180 Kg-397 lbs | 118,5x74x102cm/180 Kg-397 lbs |

## Thermic 23 K

Powered by  
**KOHLER  
DIESEL**



**PRESSURE  
350-500 bar**



### Standard equipment:

- 0.966.0006 Gun ML 710 with quick coupling M24-M24



- 0.966.0010 S/S Lance 500 bar L70 M24



- 0.966.0041 Nozzle 050 - (mod. 3521)
- 0.966.0040 Nozzle 040 - (mod. 4018)
- 0.966.0038 Nozzle 028 - (mod. 5015)



- 0.966.0013 High pressure hose 10 m



### Optional:

#### Rotox lance

- cod. 0.966.0019 (mod.3521)
- cod. 0.966.0018 (mod.4018)
- cod. 0.966.0016 (mod.5015)

#### Pipe cleaning hose 25 m.

- cod. 0.966.0023 (mod.3521/4018)
- cod. 0.966.0022 (mod.5015)

#### Extension hose 20 m.

- cod. 0.966.0027 (mod.3521)
- cod. 0.966.0026 (mod.4018/5015)

#### Sand-blasting lance 500 bar

- cod. 0.966.0032 (mod.3521)
- cod. 0.966.0031 (mod.4018)
- cod. 0.966.0030 (mod.5015)

### Equipped with:

- Comet TW Premium, TW 500 bar Premium pumps with brass pump head and ceramic pistons
- Kohler engine 12KD477/2
- Gearbox (with 1560 rpm pump)
- Electrical starting
- No engine-oil safety device (oil-alert)
- **Hour counter**
- Automatic decelerator to reduce the number of revs in the bypass phase
- Stainless steel gradual pressure restoration valve with EASY-START
- Thermostatic valve
- Water filter, readily serviceable cartridge type
- Water suction from external tank option (self priming pumps)
- Ø 300 industrial wheels
- Hose reel with 20 mt hose can be mounted on request (cod. 0.966.0035)

|                        | Thermic 23 3521 K             | Thermic 23 4018 K             | Thermic 23 5015 K             |
|------------------------|-------------------------------|-------------------------------|-------------------------------|
| code                   | 0.066.0016                    | 0.066.0015                    | 0.066.0014                    |
| operat. pressure       | 350 bar-5076 psi              | 400 bar-5801 psi              | 500 bar-7252 psi              |
| delivery rate          | 1260 l/h-5.55 GPM             | 1080 l/h-4.75 GPM             | 900 l/h-3.96 GPM              |
| engine type/hp         | Kohler 12KD477/2 Diesel/23    | Kohler 12KD477/2 Diesel/23    | Kohler 12KD477/2 Diesel/23    |
| pump type/RPM          | TW 500/1560 RPM               | TW 500/1560 RPM               | TW 500/1560 RPM               |
| max. water inlet temp. | 60 °C                         | 60 °C                         | 60 °C                         |
| dimension/weight       | 118,5x74x102cm/235 Kg-518 lbs | 118,5x74x102cm/235 Kg-518 lbs | 118,5x74x102cm/235 Kg-518 lbs |

**The hot water high-pressure cleaner is the best tool for tough or non water-soluble dirt removal.**

**Suitable for different uses and ideal in several sectors like agriculture, food industry and primary and secondary building.**

**Excellent for machines washing like: tools, engines, farm tractors and means of transport (oily dirt); removal or animal and vegetable residuals (stables and food industry), washing of heavy building equipments (cement mixers, cranes, earth-moving equipments etc.). In the food industry has a perfect hygienising effect.**

### **Why a hot water high-pressure cleaner?**

It is necessary the use of a hot water high-pressure cleaner whenever it is necessary to degrease oily or particularly tough dirt in the shortest time possible. Washing efficiency of hot water is much higher than the cold water one (up to 50% higher on some kind of dirt), because heat assists dirt degrease. Heat effect on the surface produce also fast drying. With the use of a hot water high-pressure cleaner it is possible to have: shorter washing time (under the same kind of dirt), better degrease of non water-soluble dirt, shorter drying time and less quantity of chemical product used: in few words, lower cleaning fixed costs and water saving.



### **The boiler**

It is a diesel fuel heater that raises water temperature coming out of the pump; the difference between inlet and outlet water temperature is technically indicated like Delta T.

Boiler dimensions, in other words coil and diesel fuel consumption, determine the thermal power of the burner.

Under the same conditions, increasing the delivery rate (quantity of water to be heated) the Delta T decreases proportionally. It is easy to understand why high pressure cleaners with higher delivery rates have more powerful burners: to grant the best operating temperature in each working condition. All our boilers have very high thermal efficiency, near 90% or higher. This means very low operating cost with reference to diesel fuel consumption.

**What changes among high-pressure cleaners with similar performances?**

It is necessary to consider besides pressure and delivery rate also the standard equipment (dimensions and type), optional functions (antiscale, total stop, etc.) and the manufacturing specifications (type of materials and applied technology). Nevertheless the most important aspect is the resistance to wear and tear and to continuous use, that raises progressively with the increase of manufacturing components specifications or moving up from a model to the next class one.



• **Linear pump:**

The movement of the (3) pistons occur through a system of connecting rods and crankshaft. The longitudinal axle of the pistons (placed at the same level or linear) is perpendicular to the motor rotation axle. It is more versatile to bear high delivery rates (from 21 l/min) and it has a better self priming.



• **Water cooled motor:**

Water flows through the S. S. coil around the motor, this allows a better thermal exchange (and so a cooling) than air also in those countries where inlet water could reaches 60°C. This allows a drop in operating temperature of the motor and pump mechanical elements, granting a better reliability and longer life.



• **Total Stop:**

Releasing the gun trigger the pump stops automatically avoiding element damages during the by-pass phase. Pulling the trigger, the high-pressure cleaner starts automatically. Max pump protection.



• **Low voltage and delayed Total Stop:**

To avoid quick and multiple start and shut down of the motor/pump group whenever the gun trigger is pulled and released, this disposal delays

of about 15 seconds the machine shut down. Prevention, energy saving, top safety and pump longer life.



• **Low voltage and delayed Total Stop with intelligent shut down:**

To avoid quick and multiple start and shut down of the motor/pump group whenever the gun trigger is pulled and released, this disposal delays of about 15 seconds the machine shut down. In case the machine is unused for more than 20 minutes or there are leakages in the pressure circuit, the machine shuts down automatically and completely: control panel power cut-off. Prevention, energy saving, top safety and pump longer life.



• **Motor low rotation speed:**

The electric motor transfers the same number of revolutions to the pump. With a 4 poles motor there is a lower rotation speed of the components (1400 RPM in case of 50Hz or 1750 RPM in case of 60 Hz) granting longer pump life. Extending lifetime solution.



• **Pressure accumulator:**

The release of the gun trigger produces a strong counterstroke in the pump. This device amortizes this power with great benefit for the pump components and for the user, because it removes all the vibrations.



Vulcano



Mississippi R



Dakota R



NPX



Texas R



HSR



LKX

| Code       | Model                 | operating pressure (max. pressure) |        | delivery rate | delivery rate | absorbed power | rpm  | voltage | outlet temp. | fuel consumption | diesel tank | antiscala tank | heat output | packaging  | packaging weight |             |
|------------|-----------------------|------------------------------------|--------|---------------|---------------|----------------|------|---------|--------------|------------------|-------------|----------------|-------------|------------|------------------|-------------|
|            |                       | pag                                | bar    | psi           | l/h           | GPM usa        |      |         |              |                  |             |                |             |            |                  | W           |
| 8.699.0015 | VULCANO 74            | 42                                 | -      | -             | -             | 300            | -    | 230-50  | max 140°     | 5,6 - 1.5        | 18 - 4.8    | -              | 74          | 113x71x111 | 103.6 - 228      |             |
| 8.625.0101 | MISSISSIPPI R 1310 XP | 43                                 | 30÷130 | 435÷1885      | 330÷600       | 1.45÷2,64      | 3000 | 2800    | 230-50       | max 90°          | 2,83 - 0.75 | 14 - 3.7       | -           | 38         | 65x85x100        | 71.5 - 157  |
| 8.633.0107 | DAKOTA R 1509 XP      | 44                                 | 30÷120 | 435÷1740      | 330÷540       | 1.45÷2.91      | 3200 | 2800    | 230-50       | max 140°         | 4,72 - 1.25 | 18 - 4.8       | -           | 58         | 69x85x111        | 94 - 207    |
| 8.633.0108 | DAKOTA R 2007 XP      | 44                                 | 30÷150 | 435÷2175      | 330÷420       | 1.45÷2.91      | 4000 | 2800    | 400-50       | max 140°         | 4,72 - 1.25 | 18 - 4.8       | -           | 58         | 69x85x111        | 97 - 213    |
| 8.633.0109 | DAKOTA R 1713 XP      | 44                                 | 30÷170 | 435÷2465      | 400÷780       | 1.76÷3.43      | 4700 | 2800    | 400-50       | max 140°         | 3,7 - 0.97  | 16 - 4.2       | -           | 58         | 69x85x111        | 95 - 209    |
| 8.620.0601 | NPX 1211 XP           | 45                                 | 30÷120 | 435÷1740      | 330÷660       | 1.45÷2.91      | 3200 | 2800    | 230-50       | max 140°         | 4,72 - 1.25 | 18 - 4.8       | -           | 58         | 71x113x111       | 118 - 260   |
| 8.620.0617 | NPX 1813 XP           | 45                                 | 30÷180 | 435÷2610      | 400÷780       | 1.76÷3.43      | 6300 | 2800    | 400-50       | max 140°         | 4,72 - 1.25 | 18 - 4.8       | -           | 58         | 71x113x111       | 117.5 - 259 |
| 8.630.0101 | TEXAS R 1211          | 46                                 | 30÷120 | 435÷1740      | 330÷660       | 1.45÷2.91      | 3000 | 1450    | 230-50       | max 140°         | 3,8 - 1.0   | 16 - 4.2       | -           | 58         | 69x85x111        | 104 - 229   |
| 8.630.0102 | TEXAS R 1509          | 46                                 | 30÷150 | 435÷2175      | 330÷540       | 1.45÷2.40      | 3000 | 1450    | 400-50       | max 140°         | 3,8 - 1.0   | 16 - 4.2       | -           | 58         | 69x85x111        | 104 - 229   |
| 8.630.0103 | TEXAS R 1611          | 46                                 | 30÷170 | 435÷2465      | 400÷660       | 1.76÷2.91      | 4300 | 1450    | 400-50       | max 140°         | 3,8 - 1.0   | 16 - 4.2       | -           | 58         | 69x85x111        | 104 - 229   |
| 8.630.0107 | HSR 1509 LP           | 49                                 | 30÷150 | 435-2175      | 345÷540       | 1.52-2.40      | 3000 | 1450    | 230-50       | max 140°         | 3,78 - 0,99 | 14 - 3.7       | -           | 42         | 85x69x111        | 120 - 264   |
| 8.621.2947 | LKX 1310 LP           | 47                                 | 30÷110 | 435÷1595      | 330÷660       | 1.45÷2.91      | 3000 | 1450    | 230-50       | max 140°         | 4,72 - 1,25 | 18 - 4.8       | -           | 58         | 113x71x111       | 130.5 - 287 |
| 8.621.2934 | LKX 1515 LP           | 47                                 | 30÷150 | 435÷2175      | 450÷900       | 1.98÷3.96      | 5500 | 1450    | 400-50       | max 140°         | 5,6 - 1.5   | 18 - 4.8       | -           | 74         | 113x71x111       | 143.4 - 316 |
| 8.621.2935 | LKX 2015 LP           | 47                                 | 30÷200 | 435÷2900      | 450÷900       | 1.98÷3.96      | 7300 | 1450    | 400-50       | max 140°         | 5,6 - 1.5   | 18 - 4.8       | -           | 74         | 113x71x111       | 146 - 322   |
| 8.621.3001 | HLR 1211 LP           | 50                                 | 30÷110 | 435-1595      | 345÷660       | 1.52-2.91      | 3000 | 1450    | 230-50       | max 140°         | 4,72 - 1,25 | 18 - 4.8       | -           | 58         | 113x71x111       | 127 - 279   |
| 8.621.3002 | HLR 1510 LP           | 50                                 | 30÷150 | 435-2175      | 345÷600       | 1.52-2.64      | 3000 | 1450    | 230-50       | max 140°         | 4,72 - 1,25 | 18 - 4.8       | -           | 58         | 113x71x111       | 127 - 279   |







HLR

Tekna

HTR

HHPV

Thermic 10 HW

Thermic 17 HW

| Code       | Model         | operating pressure (max pressure) |        | operating pressure (max pressure) | delivery rate | delivery rate | absorbed power | rpm  | voltage  | outlet temp. | fuel consumption | diesel tank | omiscade tank | heat output | packaging  | packaging weight |
|------------|---------------|-----------------------------------|--------|-----------------------------------|---------------|---------------|----------------|------|----------|--------------|------------------|-------------|---------------|-------------|------------|------------------|
|            |               | pag                               | bar    |                                   |               |               |                |      |          |              |                  |             |               |             |            |                  |
| 8.621.3003 | HLR 1614 LP   | 51                                | 30÷160 | 435-2320                          | 345÷840       | 1.52-3.70     | 4200           | 1450 | 400-50   | max 140°     | 4,72             | 18 - 4,7    | -             | 58          | 113x71x111 | 148,5 - 327      |
| 8.621.1004 | HLR 1515 LP   | 51                                | 30÷150 | 435-2175                          | 345÷900       | 1.52-3.96     | 5500           | 1450 | 400-50   | max 140°     | 5,6 - 1.5        | 18 - 4,7    | -             | 74          | 113x71x111 | 148,5 - 327      |
| 8.621.1005 | HLR 2015 LP   | 51                                | 30÷200 | 435-2900                          | 450÷900       | 1.98-3.96     | 7300           | 1450 | 400-50   | max 140°     | 5,6 - 1.5        | 18 - 4,7    | -             | 74          | 113x71x111 | 148,5 - 327      |
| 8.621.1006 | HLR 2021 LP   | 51                                | 30÷200 | 435-2900                          | 630÷1260      | 2.77÷5.55     | 9700           | 1450 | 400-50   | max 140°     | 5,6 - 1.5        | 18 - 4,7    | -             | 74          | 113x71x111 | 148,5 - 327      |
| 8.622.0901 | TEKNA 1515 LP | 48                                | 30÷150 | 435÷2175                          | 450÷900       | 1.98÷3.96     | 5500           | 1450 | 400-50   | max 140°     | 4,72 - 1.25      | 22 - 5.8    | 2,4 - 0.6     | 58          | 130x78x111 | 161 - 355        |
| 8.622.0902 | TEKNA 2015 LP | 48                                | 30÷200 | 435÷2900                          | 450÷900       | 1.98÷3.96     | 7300           | 1450 | 400-50   | max 140°     | 4,72 - 1.25      | 22 - 5.8    | 2,4 - 0.6     | 58          | 130x78x111 | 172 - 379        |
| 8.622.0921 | TEKNA 2021 LP | 48                                | 30÷200 | 435÷2900                          | 630÷1260      | 2.77÷5.55     | 9700           | 1450 | 400-50   | max 140°     | 6,6 - 1,75       | 22 - 5.8    | 2,4 - 0.6     | 88          | 130x78x111 | 180 - 396        |
| 8.623.0939 | HTR 2015 LP   | 52                                | 30÷200 | 435-2900                          | 450÷900       | 1.98-3.96     | 7300           | 1450 | 400-50   | max 140°     | 6,6 - 1,75       | 22 - 5,8    | 2,4           | 88          | 130x78x111 | 187 - 412        |
| 8.623.0940 | HTR 2021 LP   | 52                                | 30÷200 | 435-2900                          | 630÷1260      | 2.77÷5.55     | 9700           | 1450 | 400-50   | max 140°     | 6,6 - 1,75       | 22 - 5,8    | 2,4           | 88          | 130x78x111 | 181,5 - 400      |
| 8.623.0951 | HTR 2515 LP   | 52                                | 30÷250 | 435-3600                          | 450÷900       | 1.98-3.96     | 8700           | 1450 | 400-50   | max 140°     | 6,6 - 1,75       | 22 - 5,8    | 2,4           | 88          | 130x78x111 | 187 - 412        |
| 8.624.0601 | HHPV 1211 LP  | 53                                | 30÷120 | 435÷1740                          | 345÷660       | 1.52÷2.91     | 3000           | 1450 | 230 - 50 | max 140°     | 4,72 - 1.25      | 20 - 5.3    | -             | 58          | 80x120x185 | 199 - 438        |
| 8.624.0603 | HHPV 2015 LP  | 53                                | 30÷200 | 435÷2900                          | 450÷900       | 1.98÷3.96     | 7300           | 1450 | 400 - 50 | max 140°     | 4,72 - 1.25      | 20 - 5.3    | -             | 58          | 80x120x185 | 199 - 438        |
| 8.624.0604 | HHPV 2021 LP  | 53                                | 30÷200 | 435÷2900                          | 630÷1260      | 2.77÷5.55     | 9700           | 1450 | 400 - 50 | max 140°     | 4,72 - 1.25      | 20 - 5.3    | -             | 58          | 80x120x185 | 210 - 463        |
| 8.601.0099 | THERMIC 10 HW | 54                                | 30÷170 | 435÷2465                          | 1020          | 4,49          | 10hp           | 1700 | -        | max 140°     | 4,72 - 1.25      | 30 - 7.9    | -             | 58          | 120x80x107 | 160 - 352        |
| 8.601.0052 | THERMIC 17 HW | 55                                | 30÷200 | 435÷2900                          | 1320          | 5,82          | 17hp           | 1700 | -        | max 140°     | 5,6 - 1.5        | 40 - 10.5   | -             | 74          | 120x85x112 | 355 - 781        |

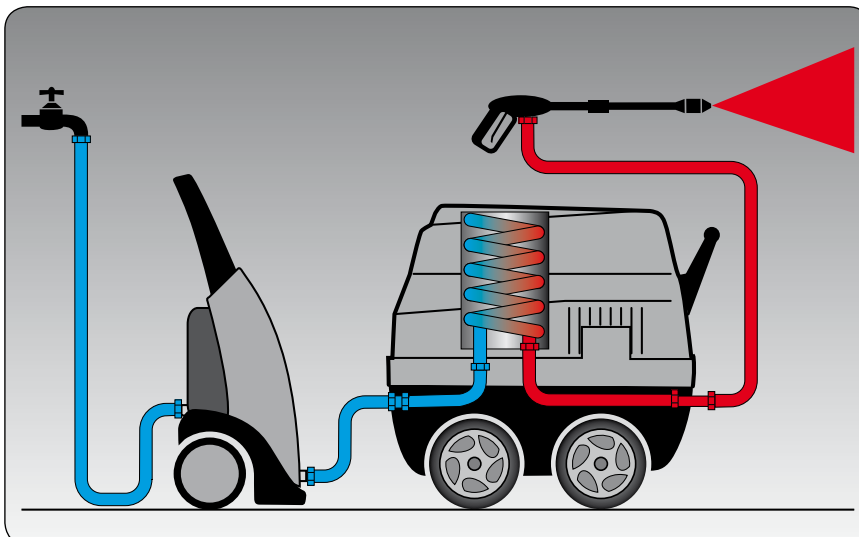


### Vulcano 74



#### Equipped with:

- Boiler feeding: Diesel  
High thermal efficiency vertical burner.
- Shock-resistant self-bearing frame.
  - 4 big wheels for easy move.
  - Gasoil tank high capacity ensuring longer working.
  - Quick couplings supplied with the machine.
  - Diesel tank capacity 18 l.
  - High pressure hose 3/8" Ø 5/16" 10 m, to connect any cold high pressure cleaner to Vulcano **(optional)**.



#### Optional:

4.618.0012 high pressure hose 3/8" Ø 5/16" 10m, to connect any cold high pressure cleaner to the Vulcano.



#### Vulcano 74

|                               |                           |
|-------------------------------|---------------------------|
| code                          | 8.699.0015                |
| operat. pressure allowed max. | 200 bar-2900 psi          |
| delivery rate allowed max.    | 1260 l/h-5.55 GPM         |
| abs. power/voltage            | 300W/230V~50Hz 1 ph       |
| max. temp. outlet             | 140 °C                    |
| heat output                   | 74 kW                     |
| dimension/weight              | 94x65x90cm/44 Kg - 88 lbs |

## Mississippi-R

**T.S.** Total Stop



### Standard equipment:

- 3.700.0036 Gun M22 - 3/8"



- 3.701.0015 Lance M22 high/low pressure



- 3.103.0047 Nozzle type 030



- 4.618.0049 High pressure hose 8 m



- Power cable 5 m

### Equipped with:

- Three ceramic coated pistons, brass axial pump head with built-in by-pass valve.
- Suction and delivery S. S. valves.
- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge.
- Diesel pump with by-pass valve.
- Detergent built-in tank for indirect suction (2,4 lt.)
- Pressure regulator.
- Glycerine pressure gauge.
- Power cable holder.
- Accessory holder.
- Ergonomic handle.

#### Mississippi-R 1310 XP

|                               |                            |
|-------------------------------|----------------------------|
| code                          | 8.625.0101                 |
| operat. pressure/max          | 130/150 bar-1885/2175 psi  |
| delivery rate                 | 600 l/h-2.64 GPM           |
| abs. power/voltage            | 3000W - 230V~50Hz 1ph      |
| motor/pump type/RPM           | MPBX2/2800 RPM             |
| max. water inlet/outlet temp. | 40/90 °C                   |
| dimension/weight              | 80x55x83cm/55 Kg - 121 lbs |

### Dakota-R



#### Standard equipment:

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.701.0015 Lance M22 high/low pressure



- 3.103.0047 Nozzle type 030 (mod. 1509 XP)
- 3.103.0013 Nozzle type 020 (mod. 2007 XP)
- 3.103.0050 Nozzle type 045 (mod. 1713 XP)



- 4.618.0049 High pressure hose 8 m



- Power cable 5 m

#### Optional:

- 6.608.0073 Hose reel with brake (hose not included)

#### Equipped with:

- Three ceramic coated pistons, brass axial pump head with built-in by-pass valve.
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge.
- Low fuel lamp.
- Safety valve.
- Detergent built-in tank (4,2 lt) for indirect suction.
- Pressure regulator.
- Glycerine pressure gauge.
- Panel with analogic controls.
- Hose reel with brake (**optional**).

|                               | Dakota-R 1509 XP            | Dakota-R 2007 XP            | Dakota-R 1713 XP            |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------|
| code                          | 8.633.0107                  | 8.633.0108                  | 8.633.0109                  |
| operat. pressure/max          | 150/160 bar-2175/2320 psi   | 200 bar-2900 psi            | 170 bar-2465 psi            |
| delivery rate                 | 540 l/h-2.37 GPM            | 420 l/h-1.84 GPM            | 780 l/h-3.43 GPM            |
| abs. power/voltage            | 3200W - 230V~50Hz 1ph       | 3300W - 230V~50Hz 1ph       | 4700W - 400V~50Hz 3 ph      |
| motorpump type/RPM            | MPBX2/2800 RPM              | MPBX2/2800 RPM              | MPBX2/2800 RPM              |
| max. water inlet/outlet temp. | 40/140 °C                   | 40/140 °C                   | 40/140 °C                   |
| dimension/weight              | 85x65x97 cm/74 Kg - 163 lbs | 85x65x97 cm/74 Kg - 163 lbs | 85x65x97 cm/76 Kg - 167 lbs |

**NPX**

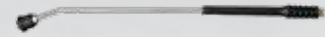


**Standard equipment:**

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.701.0015 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045 (mod. 1211 XP)
- 3.103.0049 Nozzle type 040 (mod. 1813 XP)



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

**Equipped with:**

- Three ceramic coated pistons, brass axial pump head with built-in by-pass valve.
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge.
- Low fuel lamp.
- Safety valve.
- Detergent built-in tank (3 lt) for indirect suction.
- Pressure regulator.
- Glycerine pressure gauge.
- Panel with analogic controls.
- Heavy duty steel frame.
- Accessory holder.
- Two ways fuel pump.
- Hose reel with brake (**optional**).

**Optional:**

- 6.608.0001 Hose reel with brake (hose not included)

|                               | NPX 1211 XP                | NPX 1813 XP                |
|-------------------------------|----------------------------|----------------------------|
| code                          | 8.620.0601                 | 8.620.0617                 |
| operat. pressure/max          | 120/150 bar-1740/2175 psi  | 180 bar-2610 psi           |
| delivery rate                 | 660 l/h-2.91 GPM           | 780 l/h-3.43 GPM           |
| abs. power/voltage            | 3200W - 230V~50Hz 1ph      | 6300W - 400V~50Hz 3 ph     |
| motor/pump type/RPM           | MPBX2/2800 RPM             | MPBX2/2800 RPM             |
| max. water inlet/outlet temp. | 40/140 °C                  | 40/140 °C                  |
| dimension/weight              | 94x65x90cm/97 Kg - 213 lbs | 94x65x90cm/99 Kg - 217 lbs |

### Texas-R



#### Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection.
- Three ceramic coated pistons (1 ph), full ceramic pistons (3 ph), brass linear pump head with built-in by-pass valve.
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge with high sensitive stainless steel sensor.
- Detergent built-in tank (4,2 lt) for indirect suction.
- Auxiliary motor for burner.
- Hose reel with brake (**optional**).

#### Standard equipment:

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.701.0015 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045 (mod. 1211 LP)
- 3.103.0048 Nozzle type 035 (mod. 1611 LP)
- 3.103.0047 Nozzle type 030 (mod. 1509 LP)



- 4.618.0049 High pressure hose 8 m (mod 1211 LP)
- 4.618.0143 High pressure hose 10 m (mod 1509/1611 LP)



- Power cable 5 m

#### Optional:

- 6.608.0073 Hose reel with brake (hose not included)

|                               | Texas-R 1211 LP              | Texas-R 1509 LP              | Texas-R 1611 LP              |
|-------------------------------|------------------------------|------------------------------|------------------------------|
| code                          | 8.630.0101                   | 8.630.0102                   | 8.630.0103                   |
| operat. pressure/max          | 120/150 bar-1740/2175 psi    | 150 bar-2175 psi             | 160 bar-2320 psi             |
| delivery rate                 | 660 l/h-2.91 GPM             | 540 l/h-3.17 GPM             | 660 l/h-2.91 GPM             |
| abs. power/voltage            | 3000W - 230V~50Hz 1ph        | 3000W - 230V~50Hz 1ph        | 4300W - 400V~50Hz 3 ph       |
| motor/pump type/RPM           | MP4/1450 RPM                 | MP4/1450 RPM                 | MP4/1450 RPM                 |
| max. water inlet/outlet temp. | 40/140 °C                    | 40/140 °C                    | 40/140 °C                    |
| dimension/weight              | 85x65x97 cm/112 Kg - 246 lbs | 85x65x97 cm/113 Kg - 275 lbs | 85x65x97 cm/128 Kg - 282 lbs |

**HSR**



**Standard equipment:**

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.701.0015 Lance M22 high/low pressure



- 3.103.0047 Nozzle type 030



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

**Optional:**

- 6.608.0073 Hose reel with brake (hose not included)

**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection.
- Three ceramic coated pistons.
- Built-in by-pass valve nickel plating brass linear pump head with high temperature water seals and bushing.
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge with high sensitive stainless steel sensor.
- Detergent built-in tank (4,2 lt) for indirect suction.
- Auxiliary motor for burner.
- Heavy duty steel frame.
- Hose reel with brake (**optional**).

|                               | <b>HSR 1509 LP</b>             |
|-------------------------------|--------------------------------|
| code                          | 8.630.0107                     |
| operat. pressure              | 150 bar-2175 psi               |
| delivery rate                 | 540 l/h-3.17 GPM               |
| engine type/hp                | 3000W-230V~50Hz 1 ph           |
| pump type/RPM                 | MP4 Ni/1450 RPM                |
| max. water inlet/outlet temp. | 40/140 °C                      |
| dimension/weight              | 85x65x97 cm / 113 Kg - 275 lbs |



**CRANKSHAFT**



**1450**  
RPM



**WATER**  
**COOLING**

Models: 1515 LP  
2015 LP



### LKX

#### Standard equipment:

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.701.0015 Lance M22 high/low pres. (mod. 1310 LP)



- 3.103.0050 Nozzle type 045 (mod. 1111 LP)
- 3.103.0053 Nozzle type 060 (mod. 1515 LP)
- 3.103.0050 Nozzle type 045 (mod. 2015 LP)



- 4.618.0143 H. P. hose 10 m



- Power cable 5 m

#### Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling (three phase models).
- Three ceramic coated pistons (1 ph), full ceramic pistons (3 ph), brass linear pump head with built-in by-pass valve.
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge with high sensitive stainless steel sensor.
- Detergent built-in tank (3 lt) for indirect suction.
- Auxiliary motor for burner.
- Heavy duty steel frame.
- Hose reel with brake **(optional)**.

**T.S.**  
Total Stop **24V**

#### Optional:

- 6.608.0077 Hose reel with brake (hose not included)
- On request models with header tank and/or antiscaling device.
- 3.697.0044 Antiscaling LC-PRECAL (pcs. 4 x 5 lt.)
- Code 8.621.2944 LKX 2015 with header tank
- Code 8.621.3032 LKX 2015 with header tank and antiscaling device

|                               | LKX 1310 LP                   | LKX 1515 LP                   | LKX 2015 LP                   |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| code                          | 8.621.2947                    | 8.621.2934                    | 8.621.2935                    |
| operat. pressure/max          | 110/150 bar-1595/2175 psi     | 150 bar-2175 psi              | 200 bar-2900 psi              |
| delivery rate                 | 660 l/h-2.91 GPM              | 900 l/h-3.96 GPM              | 900 l/h-3.96 GPM              |
| abs. power/voltage            | 3000W - 230V~50Hz 1ph         | 5500W - 400V~50Hz 3 ph        | 7300W - 400V~50Hz 3 ph        |
| motor/pump type/RPM           | MP4/1450 RPM                  | MPW4/1450 RPM                 | MPW4/1450 RPM                 |
| max. water inlet/outlet temp. | 40/140 °C                     | 40/140 °C                     | 40/140 °C                     |
| dimension/weight              | 94x65x90cm / 112 Kg - 246 lbs | 94x65x90cm / 125 Kg - 275 lbs | 94x65x90cm / 128 Kg - 282 lbs |



**HLR**  
single-phase models



**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling.
- Three ceramic coated pistons.
- Built-in by-pass valve nickel plating brass linear pump head with high temperature water seals and bushing.
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge with high sensitive stainless steel sensor.
- Detergent built-in tank (3 lt) for indirect suction.
- Auxiliary motor for burner.
- Heavy duty steel frame.
- Hose reel with brake **(optional)**.

**Standard equipment:**

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.701.0015 Lance M22 high/low pressure



- 3.103.0050 - Nozzle type 045 (mod. 1211 LP)
- 3.103.0047 - Nozzle type 030 (mod. 1510 LP)



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

**Optional:**

- 6.608.0077 - Hose reel with brake (hose not included)

|                               | HLR 1211 LP                   | HLR 1510 LP                   |
|-------------------------------|-------------------------------|-------------------------------|
| code                          | 8.621.3001                    | 8.621.3002                    |
| operat. pressure              | 110/150 bar-1595/2175 psi     | 150 bar-2175 psi              |
| delivery rate                 | 660 l/h-2.91 GPM              | 600 l/h-2.64 GPM              |
| engine type/hp                | 3000W - 230V~50Hz 1ph         | 3000W - 230V~50Hz 1ph         |
| pump type/RPM                 | MP4 Ni/1450 RPM               | MP4 Ni/1450 RPM               |
| max. water inlet/outlet temp. | 40/140 °C                     | 40/140 °C                     |
| dimension/weight              | 94x65x90cm / 112 Kg - 246 lbs | 94x65x90cm / 112 Kg - 246 lbs |

### HLR three-phase models



Model: 1515 LP  
2015 LP  
2021 LP

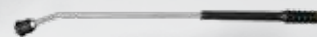


#### Standard equipment:

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.701.0015 Lance M22 high/low press. (1211 LP)



- 3.103.0048 - Nozzle type 035 (mod. 1614 LP)
- 3.103.0053 - Nozzle type 060 (mod. 1515 LP)
- 3.103.0050 - Nozzle type 045 (mod. 2015 LP)
- 3.103.0055 - Nozzle type 070 (mod. 2021 LP)



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

#### Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling (except HLR 1614 LP model).
- Three ceramic pistons, three ceramic coated pistons (mod. 1614 LP)
- Built-in by-pass valve nickel plating brass linear pump head with high temperature water seals and bushing.
- Integrated elastic joint, for best pump coupling (1614 Excluded).
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge with high sensitive stainless steel sensor.
- Detergent built-in tank 3 l.
- Auxiliary motor for burner air cooling and mechanical two ways fuel pump.
- Hose reel (**optional**).



**Integrated elastic joint, for best pump coupling**  
(1614 Excluded)

#### Optional:

- 6.608.0077 - Hose reel with brake (hose not included)
- On request models with header tank and/or antiscaling device.
- 3.697.0044 - Antiscaling LC-PRECAL (pz. 4 x 5 lt.)
- Turbo Lance code:  
6.602.0040 - (mod. 1614-2015)  
6.602.0042 - (mod. 1515-2021)

|                               | HLR 1614 LP                   | HLR 1515 LP                   | HLR 2015 LP                   | HLR 2021 LP                   |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| code                          | 8.621.3003                    | 8.621.1004                    | 8.621.1005                    | 8.621.1006                    |
| operat. pressure              | 160 bar-2321 psi              | 150 bar-2175 psi              | 200 bar-2900 psi              | 200 bar-2900 psi              |
| delivery rate                 | 840 l/h-3.70 GPM              | 900 l/h-3.96 GPM              | 900 l/h-3.96 GPM              | 1260 l/h-5.55 GPM             |
| engine type/hp                | 4200W - 400V~50Hz 3ph         | 5500W - 400V~50Hz 3ph         | 7300W - 400V~50Hz 3ph         | 9700W - 400V~50Hz 3 ph        |
| pump type/RPM                 | MP4 Ni/1450 RPM               | MPWJ5 Ni/1450 RPM             | MPWJ5 Ni/1450 RPM             | MPWJ5 Ni/1450 RPM             |
| max. water inlet/outlet temp. | 40/140 °C                     | 40/140 °C                     | 40/140 °C                     | 40/140 °C                     |
| dimension/weight              | 94x65x90cm / 109 Kg - 240 lbs | 94x65x90cm / 127 Kg - 280 lbs | 94x65x90cm / 129 Kg - 284 lbs | 94x65x90cm / 131 Kg - 288 lbs |

**Tekna**



**CRANKSHAFT**



**Standard equipment:**

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.708.0001 Lance with quick connection.



- 3.103.0052 Nozzle type 055 (mod. 1515 LP)
- 3.103.0050 Nozzle type 045 (mod. 2015 LP)
- 3.103.0055 Nozzle type 070 (mod. 2021 LP)



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

**Optional:**

- 6.608.0005 Hose reel with brake (hose not included)
- 3.697.0044 Antiscale LC-PRECAL (pcs. 4 x 5 ft.)



**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling. Three ceramic pistons, brass linear pump head with built-in by-pass valve.
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Vertical burner with high thermal efficiency steel coil.
- High pressure detergent flow with 22 liters integrated detergent tank
- Auxiliary motor for burner air-cooling and two ways fuel pump.
- Temperature regulation gauge with high sensitive stainless steel sensor.
- Low fuel lamp and cut off.
- Safety valve.
- Header tank and antiscale device. Panel with analogic controls. Hose reel (**optional**).

|                               | TEKNA 1515 LP                | TEKNA 2015 LP                | TEKNA 2021 LP                |
|-------------------------------|------------------------------|------------------------------|------------------------------|
| code                          | 8.622.0901                   | 8.622.0902                   | 8.622.0921                   |
| operat. pressure              | 150 bar-2175 psi             | 200 bar-2900 psi             | 200 bar-2900 psi             |
| delivery rate                 | 900 l/h-3.96 GPM             | 900 l/h-3.96 GPM             | 1260 l/h-5.55 GPM            |
| abs. power/voltage            | 5500W - 400V~50Hz 3ph        | 7300W - 400V~50Hz 3 ph       | 9700W - 400V~50Hz 3 ph       |
| motorpump type/RPM            | MPW5/1450 RPM                | MPW5/1450 RPM                | MPW5/1450 RPM                |
| max. water inlet/outlet temp. | 40/140 °C                    | 40/140 °C                    | 40/140 °C                    |
| dimension/weight              | 125x69x87cm/138 Kg - 304 lbs | 125x69x87cm/143 Kg - 315 lbs | 125x69x87cm/145 Kg - 319 lbs |

### HTR



#### Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling.
- Three ceramic pistons, Nickel plating brass linear pump head with high temperature water seals and bushing.
- Integrated elastic joint, for best pump coupling.
- Low voltage and delayed Total Stop.
- Vertical burner with high thermal efficiency steel coil.
- High pressure detergent flow with 22 liters integrated detergent tank
- Auxiliary motor for burner air-cooling and two ways fuel pump.
- Temperature regulation gauge with high sensitive stainless steel sensor.
- Header tank and antiscaling device.
- Pressure accumulator for hose and gun vibrations prevention.
- Hose reel (optional).



**Integrated elastic joint, for best pump coupling**

#### Standard equipment:

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.708.0001 Lance with quick connection.



- 3.103.0050 - Nozzle type 045 (mod. 2015 LP)
- 3.103.0055 - Nozzle type 070 (mod. 2021 LP)
- 3.103.0049 - Nozzle type 040 (mod. 2515 LP)



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

#### Optional:

- 6.608.0005 - Hose reel with brake (hose not included)
- 3.697.0044 - Antiscaling LC-PRECAL (pz. 4 x 5 lt.)
- Turbo Lance code:  
6.602.0040 - (mod. 2015)  
6.602.0042 - (mod. 2021)

|                               | HTR 2015 LP                    | HTR 2021 LP                    | HTR 2515 LP                    |
|-------------------------------|--------------------------------|--------------------------------|--------------------------------|
| code                          | 8.623.0939                     | 8.623.0940                     | 8.623.0951                     |
| operat. pressure              | 200 bar-2900 psi               | 200 bar-2900 psi               | 250 bar-3600 psi               |
| delivery rate                 | 900 l/h-3.96 GPM               | 1260 l/h-5.55 GPM              | 900 l/h-3.96 GPM               |
| engine type/hp                | 7300W - 400V~50Hz 3 ph         | 9700W - 400V~50Hz 3 ph         | 8700W - 400V~50Hz 3 ph         |
| pump type/RPM                 | MPWJ5 Ni/1450 RPM              | MPWJ5 Ni/1450 RPM              | MPWJ5 Ni/1450 RPM              |
| max. water inlet/outlet temp. | 40/140 °C                      | 40/140 °C                      | 40/140 °C                      |
| dimension/weight              | 125x69x89cm / 169 Kg - 372 lbs | 125x69x89cm / 171 Kg - 376 lbs | 125x69x89cm / 173 Kg - 381 lbs |



**HHPV**



**Standard equipment:**

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.708.0001 Lance with quick connection.



- 3.103.0051 Nozzle type 050 (mod. 2015 LP)
- 3.103.0056 Nozzle type 075 (mod. 2021 LP)



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

**Equipped with:**

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling.
- Three full ceramic pistons, brass linear pump head with built-in by-pass valve.
- Integrated elastic joint, for best pump coupling.
- Low voltage and delayed Total Stop.
- Suction and delivery S. S. valves.
- Detergent built-in tank 25 l.
- Vertical burner with high thermal efficiency steel coil.
- High pressure detergent dosing pump.
- Control panel with protection cover.
- Accessory holder.
- S. S. fixing base support.
- Varnished steel structure.
- Rotating booms **(optional)**.

**Optional:**

- 6.608.0032 Rotating Booms
- Flame sensor (on request)
- Low temperature internal insulation protection/heating (on request)
- With header tank and anti scale device (on request)

|                               | HHPV 2015 LP                   | HHPV 2021 LP                   |
|-------------------------------|--------------------------------|--------------------------------|
| code                          | 8.624.0603                     | 8.624.0604                     |
| operat. pressure              | 200 bar-2900 psi               | 200 bar-2900 psi               |
| delivery rate                 | 900 l/h-3.96 GPM               | 1260 l/h-5.55 GPM              |
| abs. power/voltage            | 7300W - 400V~50Hz 3ph          | 9700W - 400V~50Hz 3ph          |
| motorpump type/RPM            | MPWJ5/1450 RPM                 | MPWJ5/1450 RPM                 |
| max. water inlet/outlet temp. | 40/140 °C                      | 40/140 °C                      |
| dimension/weight              | 76x48x180cm / 190 Kg - 418 lbs | 76x48x180cm / 192 Kg - 422 lbs |

### Thermic 10 HW Hot water self-contained unit



#### Equipped with:

- Three ceramic pistons, brass linear pump head with built-in by-pass valve.
- By-pass thermal protection with safety valve.
- Electrical start with full engine functions control.
- Auxiliary belt driven sturdy alternator.
- Lombardini diesel engine 15LD440 (air cooled).
- Pump-motor gearbox (1.650 RPM).
- Automatic engine RPM regulator.
- Integrated detergent suction with external suction probe.
- Electrical start with engine functions control.
- Unique diesel tank for engine and burner.
- Battery included.

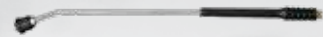


#### Standard equipment:

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.701.0015 Lance M22 high/low press.



- 3.103.0052 Nozzle type 055



- 4.618.0143 High pressure hose 10 m



#### Optional:

- 5.613.0252 S. S. header tank (high pressure chemical)
- 6.608.0014 Varnished soundproofing steel cover set code
- 6.608.0020 Trolley set with inflateable wheels & handles



#### Thermic 10 HW

|                               |                               |
|-------------------------------|-------------------------------|
| code                          | 8.601.0099                    |
| operat. pressure              | 170 bar-2465 psi              |
| delivery rate                 | 1020 l/h-4.49 GPM             |
| engine type/voltage           | Lombardini 15LD440/10         |
| motorpump type/RPM            | CL5/1650 RPM                  |
| max. water inlet/outlet temp. | 40/140 °C                     |
| dimension/weight              | 68x99x74cm / 140 Kg - 208 lbs |

## Thermic 17 HW

Hot water self-contained unit with integrated electric generator



### Equipped with:

- Integrated electric generator.
- By-pass thermal protection with safety valve.
- 2 cylinder water cooled diesel engine with electrical start.
- Three ceramic pistons, brass linear pump head with built-in by-pass valve.
- Auxiliary belt driven sturdy alternator.
- Lombardini diesel engine LDW702 (air cooled).
- Belt driven pump.
- Automatic engine RPM regulator.
- Socket tool 230V max 1.5 kW
- Front panel with engine function led and automatic power cut-off.
- Unique diesel tank for engine and burner.
- Battery included.
- Integrated detergent suction with external suction probe.

### Standard equipment:

- 3.700.0030 Gun M22 - 3/8" with rotating coupling.



- 3.708.0001 Lance with quick connection.



- 3.103.0056 Nozzle type 075



- 4.618.0143 High pressure hose 10 m



### Optional:

- 6.608.0013 Varnished soundproofing steel cover set



|                               | Thermic 17 HW                  |
|-------------------------------|--------------------------------|
| code                          | 8.601.0052                     |
| operat. pressure              | 200 bar-2900 psi               |
| delivery rate                 | 1320 l/h-5.82 GPM              |
| engine type/voltage           | Lombardini ISLD 440/17         |
| motor/pump type/RPM           | CL5/1450 RPM                   |
| max. water inlet/outlet temp. | 40/140 °C                      |
| dimension/weight              | 113x75x85cm / 220 Kg - 480 lbs |



### High-pressure nozzle



|            |                           |
|------------|---------------------------|
| 3.103.0027 | high-pressure nozzle 0.30 |
| 3.103.0037 | high-pressure nozzle 0.35 |
| 3.103.0028 | high-pressure nozzle 0.40 |
| 3.103.0034 | high-pressure nozzle 0.45 |
| 3.103.0029 | high-pressure nozzle 0.50 |
| 3.103.0030 | high-pressure nozzle 0.55 |
| 3.103.0031 | high-pressure nozzle 0.60 |
| 3.103.0025 | high-pressure nozzle 0.70 |
| 3.103.0070 | high-pressure nozzle 0.75 |
| 3.103.0033 | high-pressure nozzle 0.90 |



|            |                           |
|------------|---------------------------|
| 3.103.0047 | high-pressure nozzle 0.30 |
| 3.103.0048 | high-pressure nozzle 0.35 |
| 3.103.0049 | high-pressure nozzle 0.40 |
| 3.103.0050 | high-pressure nozzle 0.45 |
| 3.103.0051 | high-pressure nozzle 0.50 |
| 3.103.0052 | high-pressure nozzle 0.55 |
| 3.103.0053 | high-pressure nozzle 0.60 |
| 3.103.0055 | high-pressure nozzle 0.70 |
| 3.103.0056 | high-pressure nozzle 0.75 |
| 3.103.0058 | high-pressure nozzle 0.85 |



|            |                           |
|------------|---------------------------|
| 3.103.0018 | high-pressure nozzle 0.30 |
| 3.103.0020 | high-pressure nozzle 0.35 |
| 3.103.0009 | high-pressure nozzle 0.40 |
| 3.103.0016 | high-pressure nozzle 0.45 |
| 3.103.0017 | high-pressure nozzle 0.50 |
| 3.103.0019 | high-pressure nozzle 0.55 |
| 3.103.0021 | high-pressure nozzle 0.60 |
| 3.103.0067 | high-pressure nozzle 0.70 |
| 3.103.0068 | high-pressure nozzle 0.75 |
| 3.103.0069 | high-pressure nozzle 0.90 |



|            |                                  |
|------------|----------------------------------|
| 3.749.0200 | rotary nozzle max 500 bar - 0.40 |
| 3.749.0201 | rotary nozzle max 500 bar - 0.45 |
| 3.749.0202 | rotary nozzle max 500 bar - 0.50 |
| 3.749.0203 | rotary nozzle max 500 bar - 0.55 |
| 3.749.0204 | rotary nozzle max 500 bar - 0.60 |
| 3.749.0205 | rotary nozzle max 500 bar - 0.65 |
| 3.749.0206 | rotary nozzle max 500 bar - 0.70 |
| 3.714.0020 | rotary nozzle max 350 bar - 0.40 |

### Rotary head nozzle

**Rotary nozzle max 350/500 bar:**  
G 1/4" F with S. S. body and seat/nozzle in highly shock-resistant tungsten carbide

**Extension set for rotary nozzle:**  
1/4" M - 1/4" M codes 3.749.0004 + 4.006.0099 Spare coupling for gun M 22



**1) Sand-blasting heads** max 250 bar, **are not** supplied with nozzles.  
Orders will be always placed with the nozzle required.

Sand-blasting heads max 250 bar

|            |                                     |
|------------|-------------------------------------|
| 3.749.0207 | Sand blasting head - blade type     |
| 3.749.0208 | Sand blasting head - round type     |
| 3.749.0209 | Sand blasting head - prolonged type |

### Sand-blasting head

Sand-blasting nozzles

|            |             |
|------------|-------------|
| 3.749.0434 | nozzle 0.40 |
| 3.749.0433 | nozzle 0.45 |
| 3.749.0432 | nozzle 0.50 |



**2) Prolonged adjustable probe** for sand-blasting

|            |  |
|------------|--|
| 3.749.0210 | S. S. prolonged adjustable Ø 21 probe L = 500 mm |
|------------|--|





### Hot water high-pressure cleaner accessories

#### High pressure hose



|                       |   |   |   |   |  |
|-----------------------|---|---|---|---|--|
|                       |   | 10 m High pressure hose - 3/8" - Ø 5/16" - 310 bar                  |   |   |  |
|                       |   | 20 m High pressure hose - 3/8" - Ø 5/16" - 400 bar                  |   |   |  |
|                       |   | 20 m High pressure hose - 3/8" - Ø 3/8" - 400 bar                   |   |   |  |
|                       |   | 10 m High pressure hose for food industry - 3/8" - Ø 3/8" - 400 bar |   |   |  |
|                       |   | 10 m High pressure hose - 3/8" F.F. - Ø 3/8" RZ                     |   |   |  |
| MISSISSIPPI R 1310 XP |   |   |   |   |  |
| DAKOTA R 1509 XP      |   |   |   |   |  |
| DAKOTA R 2007 XP      |   |   |   |   |  |
| DAKOTA R 1713 XP      |   |   |   |   |  |
| NPX 1211 XP           | • | •   |   | • |  |
| NPX 1813 XP           | • | •   |   | • |  |
| TEXAS R 1211          |   |   |   |   |  |
| TEXAS R 1509          | • | •   |   | • |  |
| TEXAS R 1611          | • | •   |   | • |  |
| HSR 1509 LP           | ▲ | ▲   | ▲ | ▲ |  |
| LKX 1310 LP           | • | •   |   | • |  |
| LKX 1515 LP           | • | •   |   | • |  |
| LKX 2015 LP           | • | •   | • | • |  |
| HLR 1211 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HLR 1510 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HLR 1614 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HLR 1515 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HLR 2015 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HLR 2021 LP           | ▲ | ▲   | ▲ | ▲ |  |
| TEKNA 1515 LP         | • | •   |   | • |  |
| TEKNA 2015 LP         | • | •   | • | • |  |
| TEKNA 2021 LP         |   |   | • | • |  |
| HTR 2015 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HTR 2021 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HTR 2515 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HPV 1211 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HPV 2015 LP           | ▲ | ▲   | ▲ | ▲ |  |
| HPV 2021 LP           | ▲ | ▲   | ▲ | ▲ |  |

• = Suitable ▲ = Suitable (with adapter 3.100.0043)

#### Turbo lance



|                       |   |                               |  |   |  |
|-----------------------|---|-------------------------------|--|---|--|
|                       |   | Lance Rotox type 1 M22 - 0,45 |  |   |  |
|                       |   | Lance Rotox type 2 M22 - 0,55 |  |   |  |
|                       |   | Lance Rotox type 3 M22 - 0,70 |  |   |  |
|                       |   | Lance Rotox M22 - 0,35        |  |   |  |
|                       |   | Lance Rotox M22 - 0,30        |  |   |  |
| MISSISSIPPI R 1310 XP |   |                               |  |   |  |
| DAKOTA R 1509 XP      |   |                               |  |   |  |
| DAKOTA R 2007 XP      |   |                               |  |   |  |
| DAKOTA R 1713 XP      | • |                               |  |   |  |
| NPX 1211 XP           |   |                               |  |   |  |
| NPX 1813 XP           | • |                               |  |   |  |
| TEXAS R 1211          | • |                               |  |   |  |
| TEXAS R 1509          |   |                               |  | • |  |
| TEXAS R 1611          |   |                               |  | • |  |
| HSR 1509 LP           |   |                               |  | • |  |
| LKX 1310 LP           | • |                               |  |   |  |
| LKX 1515 LP           |   | •                             |  |   |  |
| LKX 2015 LP           | • |                               |  |   |  |
| HLR 1211 LP           | • |                               |  |   |  |
| HLR 1510 LP           |   |                               |  | • |  |
| HLR 1614 LP           |   |                               |  | • |  |
| HLR 1515 LP           |   | •                             |  |   |  |
| HLR 2015 LP           | • |                               |  |   |  |
| HLR 2021 LP           |   |                               |  | • |  |
| TEKNA 1515 LP         |   | •                             |  |   |  |
| TEKNA 2015 LP         | • |                               |  |   |  |
| TEKNA 2021 LP         |   | •                             |  |   |  |
| HTR 2015 LP           | • |                               |  |   |  |
| HTR 2021 LP           |   | •                             |  |   |  |
| HTR 2515 LP           | • |                               |  |   |  |
| HPV 1211 LP           | • |                               |  |   |  |
| HPV 2015 LP           |   | •                             |  |   |  |
| HPV 2021 LP           |   | •                             |  |   |  |

#### Sand blasting lance



|                       |   |                                      |  |   |  |
|-----------------------|---|--------------------------------------|--|---|--|
|                       |   | Widia sand-blasting lance M22 - 0,40 |  |   |  |
|                       |   | Widia sand-blasting lance M22 - 0,50 |  |   |  |
|                       |   | Widia sand-blasting lance M22 - 0,75 |  |   |  |
| MISSISSIPPI R 1310 XP |   |                                      |  |   |  |
| DAKOTA R 1509 XP      | • |                                      |  |   |  |
| DAKOTA R 2007 XP      |   |                                      |  |   |  |
| DAKOTA R 1713 XP      |   | •                                    |  |   |  |
| NPX 1211 XP           | • |                                      |  |   |  |
| NPX 1813 XP           | • |                                      |  |   |  |
| TEXAS R 1211          | • |                                      |  |   |  |
| TEXAS R 1509          | • |                                      |  |   |  |
| TEXAS R 1611          | • |                                      |  |   |  |
| HSR 1509 LP           | • |                                      |  |   |  |
| LKX 1310 LP           | • |                                      |  |   |  |
| LKX 1515 LP           |   | •                                    |  |   |  |
| LKX 2015 LP           | • |                                      |  |   |  |
| HLR 1211 LP           | • |                                      |  |   |  |
| HLR 1510 LP           | • |                                      |  |   |  |
| HLR 1614 LP           | • |                                      |  |   |  |
| HLR 1515 LP           |   | •                                    |  |   |  |
| HLR 2015 LP           | • |                                      |  |   |  |
| HLR 2021 LP           |   |                                      |  | • |  |
| TEKNA 1515 LP         |   | •                                    |  |   |  |
| TEKNA 2015 LP         | • |                                      |  |   |  |
| TEKNA 2021 LP         |   | •                                    |  |   |  |
| HTR 2015 LP           | • |                                      |  |   |  |
| HTR 2021 LP           |   | •                                    |  |   |  |
| HTR 2515 LP           | • |                                      |  |   |  |
| HPV 1211 LP           | • |                                      |  |   |  |
| HPV 2015 LP           |   | •                                    |  |   |  |
| HPV 2021 LP           |   | •                                    |  |   |  |

#### Water flow adjuster coupling




A

B

| Code       | Inlet   | Outlet   | Max. pressure |      |     | Max flow rate |      | Max temperature |     |
|------------|---------|----------|---------------|------|-----|---------------|------|-----------------|-----|
|            |         |          | bar           | psi  | MPa | l/m           | GPM  | °C              | °F  |
| 3.703.0023 | M22 Ø14 | M22F Ø14 | 280           | 4061 | 28  | 30            | 7.93 | 160             | 320 |
| 3.703.0024 | 1/4" M  | M22F Ø14 | 280           | 4061 | 28  | 30            | 7.93 | 160             | 320 |
| 3.703.0009 | 1/4" M  | 1/4" F   | 280           | 4061 | 28  | 30            | 7.93 | 160             | 320 |


## High-pressure cleaner with combustion engine accessories

### High pressure hose




|                    |            |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------------|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                    | 4.618.0012 | 10 m High pressure hose - 3/8" - Ø 5/16" - 310 bar                  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 4.618.0056 | 20 m High pressure hose - 3/8" - Ø 5/16" - 400 bar                  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 4.618.0057 | 20 m High pressure hose - 3/8" - Ø 3/8" - 400 bar                   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 4.618.0058 | 10 m High pressure hose for food industry - 3/8" - Ø 3/8" - 400 bar |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 4.618.0059 | 10 m High pressure hose - 3/8" F - Ø 3/8" R2                        |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 0.966.0026 | 20 m Extension high pressure hose                                   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 0.966.0027 | 20 m Extension high pressure hose                                   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 5H         |            |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 6,5        |            |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 9 L        | •          | •   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 10 D       | ▲          | ▲   | ▲ | ▲ | ▲ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 11 H/11 HF | ▲          | ▲   | ▲ | ▲ | ▲ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 13 H/13 HF | ▲          | ▲   | ▲ | ▲ | ▲ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 22 3521 H  |            |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 22 4018 H  |            |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 22 5015 H  |            |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 23 3521 K  |            |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 23 4018 K  |            |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 23 5015 K  |            |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 10 HW      | ▲          | ▲   | ▲ | ▲ | ▲ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 17 HW      | ▲          | ▲   | ▲ | ▲ | ▲ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

### Turbo lance



|                    |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------------|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                    | 6.602.0040 | Lance Rotox type 1 M22 - 0,45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 6.602.0041 | Lance Rotox type 2 M22 - 0,55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 6.602.0042 | Lance Rotox type 3 M22 - 0,70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 6.602.0056 | Lance Rotox M22 - 0,35        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 6.602.0060 | Lance Rotox M22 - 0,30        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 0.966.0019 | Lance Rotox                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 0.966.0018 | Lance Rotox                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 0.966.0016 | Lance Rotox                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 5H         |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 6,5        |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 9 L        | •          |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 10 D       |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 11 H/11 HF |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 13 H/13 HF | •          |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 22 3521 H  |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 22 4018 H  |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 22 5015 H  |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 23 3521 K  |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 23 4018 K  |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 23 5015 K  |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 10 HW      | •          |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 17 HW      |            |                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

### Sand blasting lance

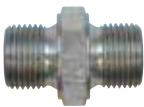


|                    |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------------|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                    | 6.602.0027 | Widia sand-blasting lance M22 - 0,40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 6.602.0028 | Widia sand-blasting lance M22 - 0,50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 6.602.0029 | Widia sand-blasting lance M22 - 0,75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 0.966.0032 | Sand-blasting lance                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 0.966.0031 | Sand-blasting lance                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 0.966.0030 | Sand-blasting lance                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 5H         | •          |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 6,5        |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 9 L        | •          |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 10 D       |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 11 H/11 HF |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 13 H/13 HF | •          |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 22 3521 H  |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 22 4018 H  |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 22 5015 H  |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 23 3521 K  |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 23 4018 K  |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 23 5015 K  |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 10 HW      |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| THERMIC 17 HW      |            |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

• = Suitable ▲ = Suitable (with adapter 3.100.0043)

### Adapters for high pressure hoses

3/8" M 3/8" M



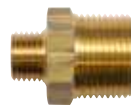
Code: 3.100.0023

3/8" M M 22



Code: 4.606.0053

1/4" M M 22



Code: 4.006.0062

3/8" M M 22 F



Code: 3.100.0043

### Quick coupling kit hose/gun



Quick coupling kit hose/gun - brass - inlet 3/8" F - outlet 3/8" M - 200 bar  
Code: 6.608.0003



Quick coupling kit hose/gun - brass - inlet 1/4" F - outlet 1/4" M - 200 bar  
Code: 6.608.0002



Quick coupling kit hose/gun - inlet 3/8" F - outlet 3/8" M - 250 bar  
Code: 6.602.0021



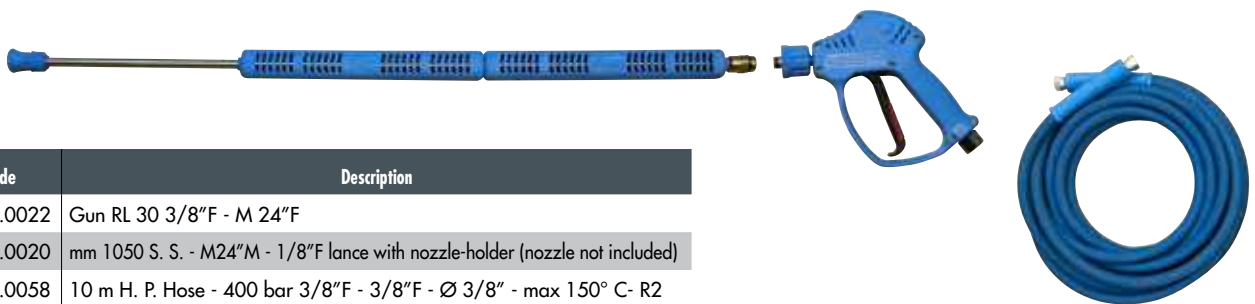
### Accessories High-pressure cleaners



| Code       | Description   |
|------------|---|
| 3.700.0025 | Gun RL 30 3/8" M - 1/4" F (only for lance 6.602.0049 - 6.602.0050)                  |
| 6.602.0049 | mm 1700 S. S. 1/4" M - 1/8" F high/low press. (for det. suction) for gun 3.700.0025 |
| 6.602.0050 | mm 1700 S. S. 1/4" M - 1/8" F lance with nozzle-holder - for gun 3.700.0025         |

### Food industry high pressure accessories

**For food industry**



| Code       | Description  |
|------------|--|
| 3.700.0022 | Gun RL 30 3/8" F - M 24" F   |
| 3.701.0020 | mm 1050 S. S. - M24" M - 1/8" F lance with nozzle-holder (nozzle not included) |
| 4.618.0058 | 10 m H. P. Hose - 400 bar 3/8" F - 3/8" F - Ø 3/8" - max 150° C - R2           |



### Steam hose R2 with rubber hose bend Ø 3/8"

**For food industry**

| Code       | Max. pressure |      |     | Length<br>m | Inlet  | Outlet | Max. temperature<br>°C |
|------------|---------------|------|-----|-------------|--------|--------|------------------------|
|            | bar           | psi  | MPa |             |        |        |                        |
| 4.618.0059 | 400           | 5801 | 40  | 10          | 3/8" F | 3/8" F | 135                    |



### Wall mount hose reel

Wall mount hose reel with brackets without hose (capability 20 m hose 3/8")

| Code       | Description                                     | Inlet  | Outlet |
|------------|---|--------|--------|
| 6.608.0071 | Wall mount hose reel with brackets without hose | 3/8" F | 3/8" F |



### Automatic hose reel

Automatic hose reel (capability 20 m hose)

| Code       | Description                                       | Inlet  | Outlet |
|------------|---|--------|--------|
| 3.749.0508 | Varnished steel automatic hose reel               | 3/8" M | 3/8" F |
| 3.749.0510 | Stainless steel automatic hose reel               | 3/8" M | 3/8" F |
| 3.749.0509 | Varnished steel automatic hose reel with 20m hose | 3/8" F | 3/8" F |

**Double lance**



**Double lance mm 500 with regulator knob max 250 bar:**  
Double lance mm 500 with regulator knob max 250 bar with nozzle holder

3.701.0025 Double lance with regulator mm 500

**Foam lance**



**Foam lance max 250 bar:**  
Foam lance max temperature 90° C. For gun M 22 max 250 bar

6.602.0003 Foam lance

**Foam lance with regulator**



**Foam lance with regulator max 180 bar**  
Foam lance with regulator max temp. 60° C - with M22 coupling

6.602.0055 Foam lance

**Foam lance with regulator**



**Foam lance max 180 bar with tank 1 lt.**  
Foam lance with regulator max temp. 60° C - with M22 coupling

6.602.0053 Foam lance with tank 1 lt.

**Water filter**



**Water filter**  
Water filter - 3/4 F - 3/4 M  
80 micron

3.102.0011 Water filter

**Calibrated sand**



**Calibrated sand**  
Calibrated sand - 6 pieces of 5 kg each

0.011.0001 Calibrated sand (6 x 5 kg)



### Gun with extensible telescopic lance

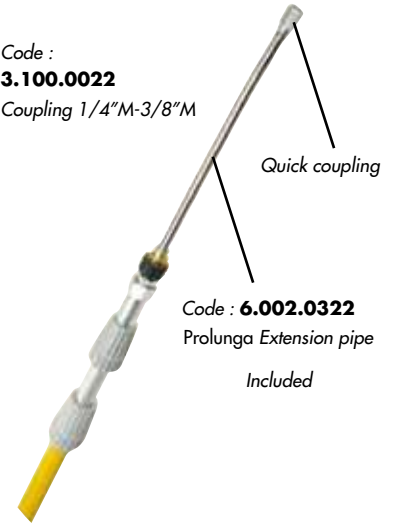
Code :  
**4.018.0067**  
Spare hose



A:  
3/8" M

Code :  
**3.100.0021**  
Coupling 1/4" M-1/4" M

Code :  
**3.100.0022**  
Coupling 1/4" M-3/8" M



Quick coupling

Code : **6.002.0322**  
Prolunga Extension pipe  
Included

| Code       | Pressure |      |     | Flow rate |      | Length  |         | Coupling | Temperature |     |
|------------|----------|------|-----|-----------|------|---------|---------|----------|-------------|-----|
|            | bar      | psi  | MPa | l/m       | GPM  | min. mm | max. mm | A        | °C          | °F  |
| 3.749.0488 | 250      | 3625 | 25  | 40        | 10.5 | 2000    | 5000    | 3/8" M   | 150         | 302 |

Quick coupling code: 4.607.0275 + adapter for nozzle 1/4" code: 3.100.0032  
Quick coupling code: 4.607.0275 + adapter for nozzle 1/8" code: 3.100.0338

### Motorized head



for Thermic 13H  
and Thermic 17 HW  
in combination with M24 nipple  
cod. 3.749.0320

- S. S. motorized head for case and tank cleaning
- Complete orbital internal coverage
- Complete with nozzles and converter

| Motorized head        |                     |
|-----------------------|---------------------|
| code                  | 3.749.0196          |
| operat. pressure      | 220 bar - 3190 psi  |
| allowed pressure      | 250 bar - 3625 psi  |
| operat. delivery rate | 1260 l/h - 5,56 GPM |
| nominal temperature   | 90° C               |
| min. diameter         | Ø 40 mm             |
| nozzle type           | 2 x M4              |

### Floor Cleaning Lance



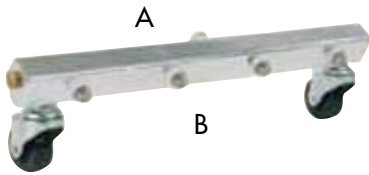
for Thermic 13H  
and Thermic 17 HW  
in combination with M24 nipple  
cod. 3.749.0320



- S. S. floor cleaning lance (nozzle not included)
- Complete with RL 35 gun
- For washing terraces and external floors in general.





| Floor Cleaning Lance  |                    |
|-----------------------|--------------------|
| code                  | 6.602.0020         |
| operat. pressure      | 250 bar - 3625 psi |
| allowed pressure      | 280 bar - 4060 psi |
| operat. delivery rate | 1200 l/h - 5,3 GPM |
| nominal temperature   | 160° C             |
| nozzle dimension      | .060               |

**Stainless steel floor cleaning lance with wheels (without nozzles)**



| Code       | Pressure |      |     | Flow rate |      | Length<br>mm | Coupling |        | Temperature |     |
|------------|----------|------|-----|-----------|------|--------------|----------|--------|-------------|-----|
|            | bar      | psi  | MPa | l/m       | GPM  |              | A        | B      | °C          | °F  |
| 6.602.0052 | 250      | 3625 | 25  | 20        | 5.29 | 500          | 1/4" F   | 1/8" F | 160         | 320 |

**Pipe cleaning nozzles**

|  | Code       | Description                          | Thread | Type |
|--|------------|--------------------------------------|--------|------|
|   | 3.103.0035 | Pipe cleaning nozzle with side holes | 3/8" M | 0.55 |
|   | 3.103.0106 | Rounded head pipe cleaning nozzle    | 3/8" M | 0.55 |
|  | 3.103.0107 | Pipe cleaning nozzle with side holes | 3/8" F | 0.55 |
|  | 3.103.0119 | Pipe cleaning nozzle with side holes | 1/4" F | 0.55 |

**Kit pipe cleaning hose with nozzle**

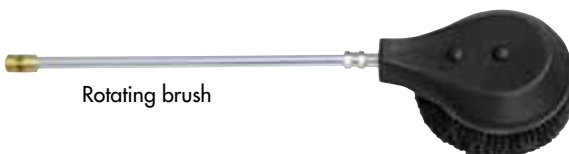


| Code       | Description            | Length<br>m | Max. pressure |      |     | Inlet    | Outlet                 |
|------------|------------------------|-------------|---------------|------|-----|----------|------------------------|
|            |                        |             | bar           | psi  | MPa |          |                        |
| 6.608.0054 | Kit pipe cleaning hose | 10          | 210           | 3045 | 21  | M 22 - M | Stainless steel nozzle |
| 6.608.0045 | Kit pipe cleaning hose | 20          | 210           | 3045 | 21  | M 22 - M | Stainless steel nozzle |

**Fixed and rotating brushes**



Fixed brush



Rotating brush

**Fixed and rotating brushes max 250 bar:** mm 700, max temperature 90° C, for gun M 22

6.602.0035 Fixed brush with extension pipe mm 700

6.602.0036 Rotating brush with extension pipe mm 700

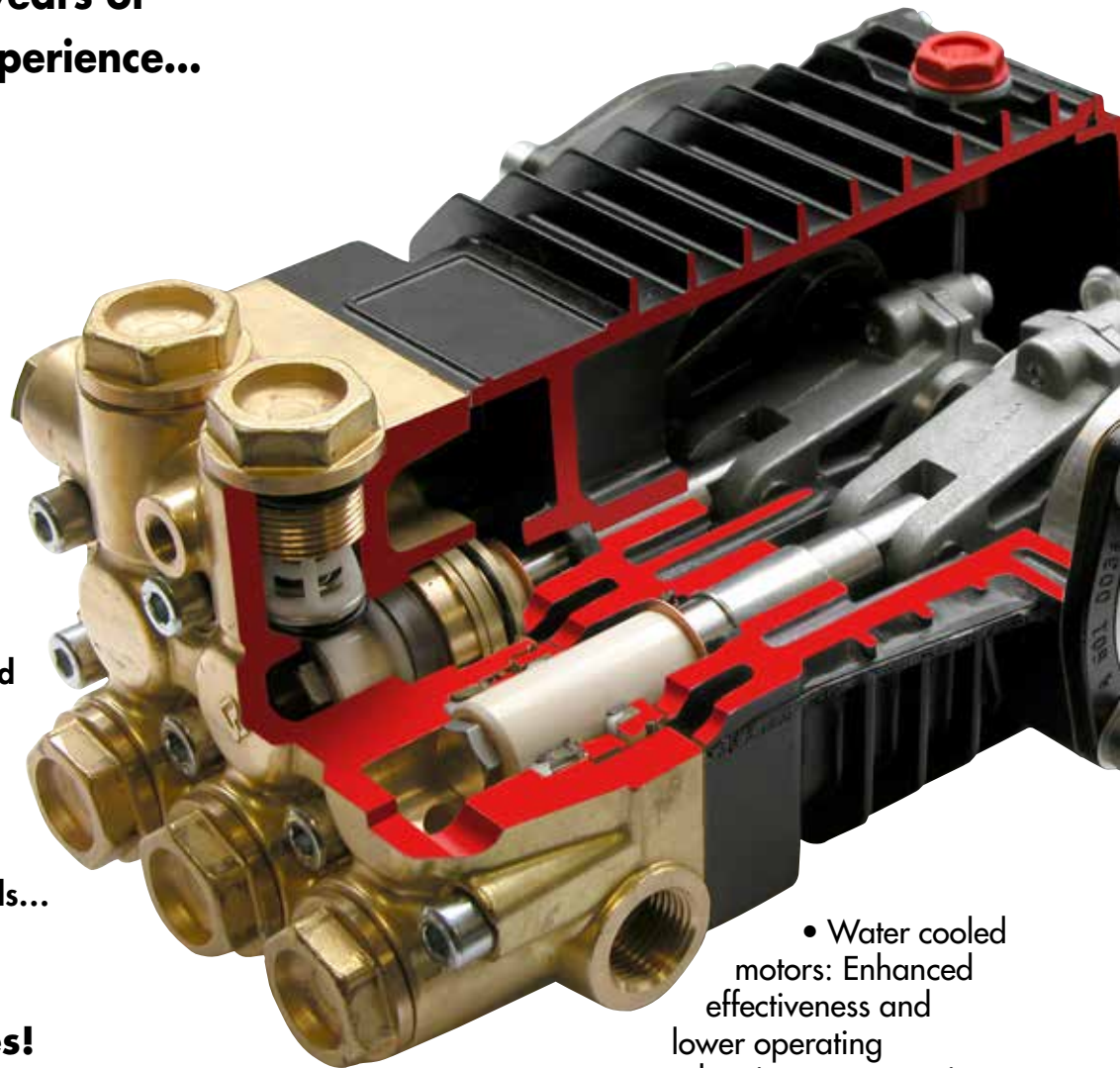
### More than 40 years of constructive experience...

Lavor Hyper offers a comprehensive range of pumps and motor pumps constructed and designed to meet any requirement of the market, providing a long-lasting and reliable solution to address cleaning needs...

### No compromises!

Lavor Hyper's offering of pumps and motor pumps intentionally targets a clientele seeking top quality and durability for this kind of products:

- 4-pole motors: They assure 1450 RPM speed, resulting in a decrease of pump and motor's operating temperatures, reduction in wear of consumables, lower oil deterioration inside the pump.



- Water cooled motors: Enhanced effectiveness and lower operating temperatures translate into compact sizes and high performance.

- Elastic coupling: it assures better alignment, dissipation of the heat from the motor rotor, lower stress on bearings, easy disassembly of the pump from the motor.

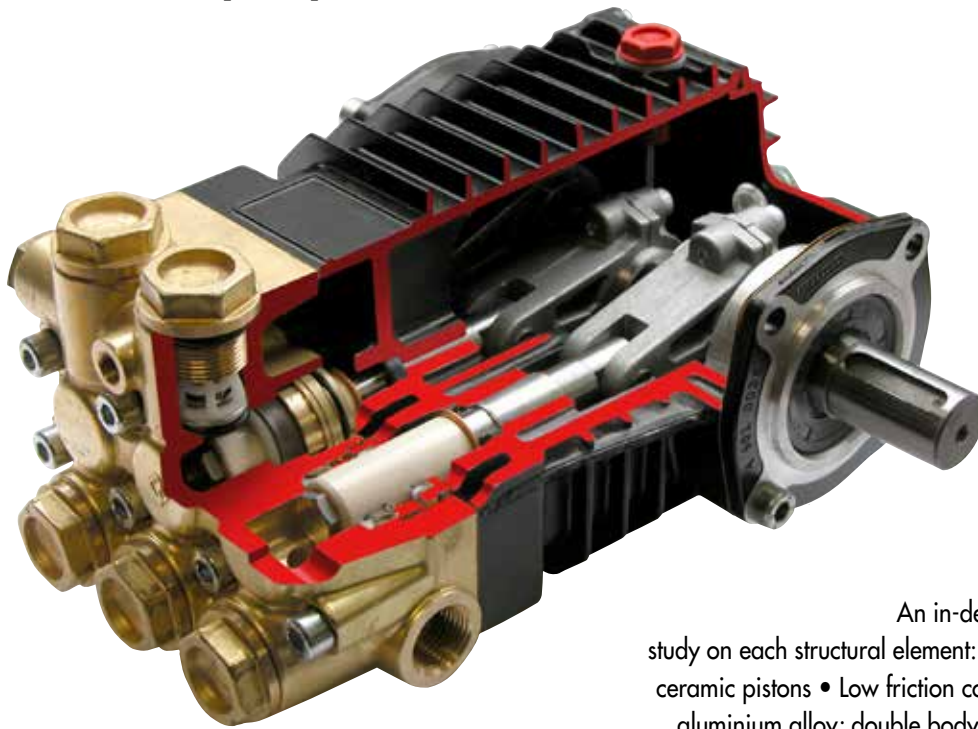
- Pump body in die cast aluminium: the casing design focuses on assuring stress is reduced to the minimum and operating temperatures are reduced, with the aim of guaranteeing unlimited service life.



- Forged brass pump head: improved mechanical strength, superior resistance to corrosion and oxidation phenomena.
- Nickel plated forged brass (CW5) pump head: the perfect surface finish, jointly with the properties of the plating, assure improved resistance to chemicals and lower chance of deterioration caused by cavitation phenomena.
- Double gasket seal system the choice of the "U" gasket profile represents the maximum quality standard, assuring lower wear due to friction.
- High temperature seals (CW5): They assure optimal durability up to 85° operation.
- Valves with stainless steel plate and spherical seal: high fluid dynamics performance.
- Ceramic pistons (according to the models): to assure longer service life of the pistons and guarantee lower wear of water seals and improved resistance to thermal shocks.
- Double housing connecting rods (CL5-CW 5): ease of maintenance.
- **"READY TO USE"** pumps (CL4): This range provides built-in by-pass valve, low pressure detergent injector, total stop actuation micro-switch, pressure regulation and pressure gauge, making installation easier and speeding up replacement and maintenance operations.



### Pumps and motorpumps



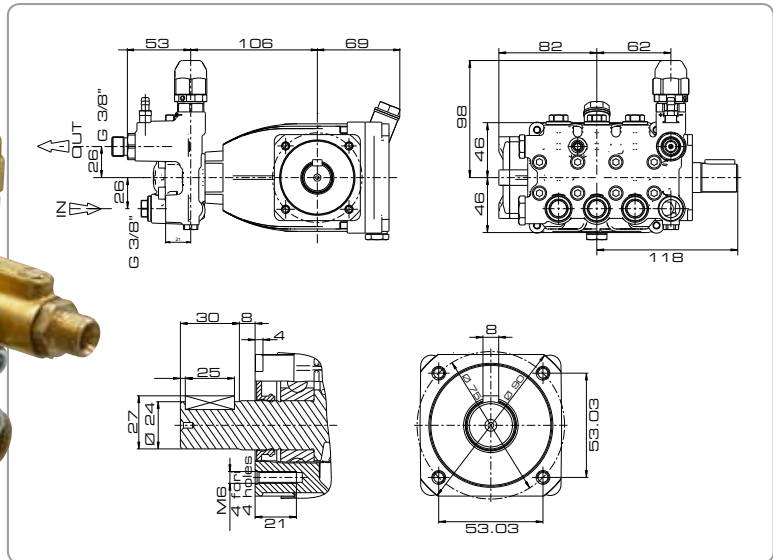
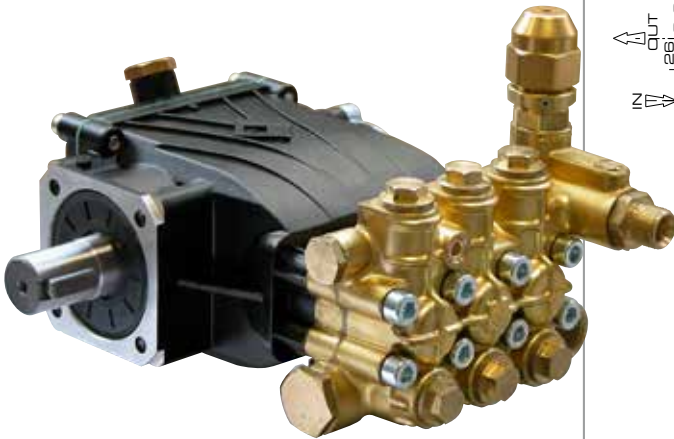
**CL5 21-200**

An in-depth and comparative study on each structural element:

- Low wear and tear ceramic pistons
- Low friction connecting rod, built in aluminium alloy; double body for easy disassembly
- Minimum charge on the cone-shaped bearings (through electronic calibration of the drive shaft rotation)
- Very low operating temperature, favored by the use of water cooled motor
- Top range up to 21 l/min.

| Model                  | Omnia 12           | Omnia 15           | CL4   | CL5                             | CW5                             |
|------------------------|--------------------|--------------------|---|---------------------------------|---------------------------------|
| <b>Pump type</b>       | Axial              | Axial              | Linear  | Linear                          | Linear                          |
| Head                   | Brass              | Brass              | Brass   | Brass                           | Brass nickel plated             |
| Pistons                | Stainless steel    | Ceramic coated     | Ceramic coated-Ceramic                                | Ceramic                         | Ceramic                         |
| Pistons Ø              | 12 mm              | 15 mm              | 15 mm/18 mm   | 20 mm                           | 20 mm                           |
| By-pass valve          | Integrated         | Integrated         | Integrated  | Separated                       | Separated                       |
| Pressure regulator     | Integrated         | Integrated         | Integrated  | On by-pass                      | On by-pass                      |
| Max operating pressure | 140 bar            | 200 bar            | 200 bar   | 200 bar                         | 200 bar                         |
| Max delivery rate      | 9 l/min            | 13 l/min           | 15 l/min  | 21 l/min                        | 21 l/min                        |
| Motor                  | 2 poles air cooled | 2 poles air cooled | 4 poles air cooled<br>4 poles H <sub>2</sub> O cooled | 4 poles H <sub>2</sub> O cooled | 4 poles H <sub>2</sub> O cooled |
| Total Stop             | Available          | Available          | Available   | Available                       | Available                       |

## CL4 series

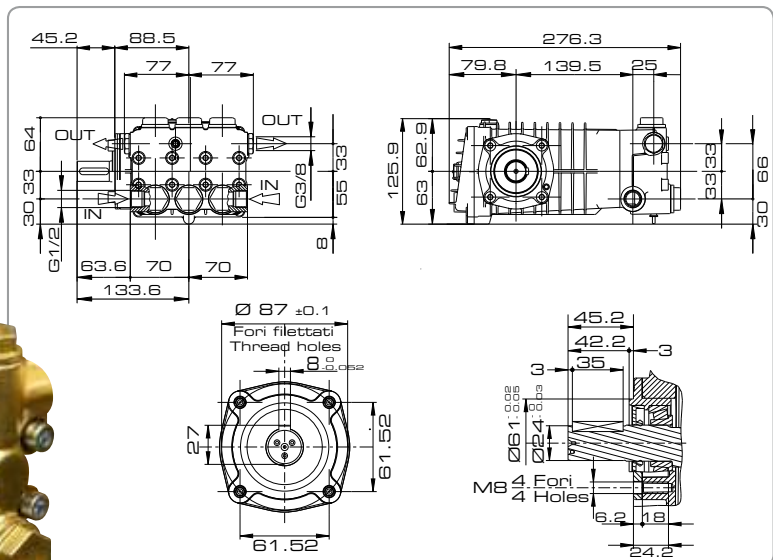


### Equipped with:

- Pressure adjuster included

| Model           | Right shaft ver. | Left shaft ver. | RPM       | Max. pressure |      |     | Flow rate |     | Requested power |     |     |     | Weight |     |     |      |
|-----------------|------------------|-----------------|-----------|---------------|------|-----|-----------|-----|-----------------|-----|-----|-----|--------|-----|-----|------|
|                 | Code             | Code            |           | bar           | psi  | MPa | l/m       | GPM | HP              | kW  |     | kg  | lbs    |     |     |      |
| CL 44-15 9-200  | 5.702.0018       | 5.702.0019      | 1450 1750 | 200           | 2900 | 20  | 9         | 11  | 2.4             | 2.9 | 4,9 | 6   | 3,6    | 4,4 | 6,6 | 14,5 |
| CL 44-15 11-200 | 5.702.0020       | 5.702.0021      | 1450 1750 | 200           | 2900 | 20  | 11        | 13  | 2.9             | 3.5 | 6   | 6,5 | 4,4    | 4,8 | 6,6 | 14,5 |
| CL 44-18 15-200 | 5.703.0006       | 5.703.0007      | 1450 1750 | 200           | 2900 | 20  | 15        | 18  | 4               | 4.7 | 7,5 | 9,2 | 5,5    | 6,9 | 7   | 15,4 |

## CL5 series

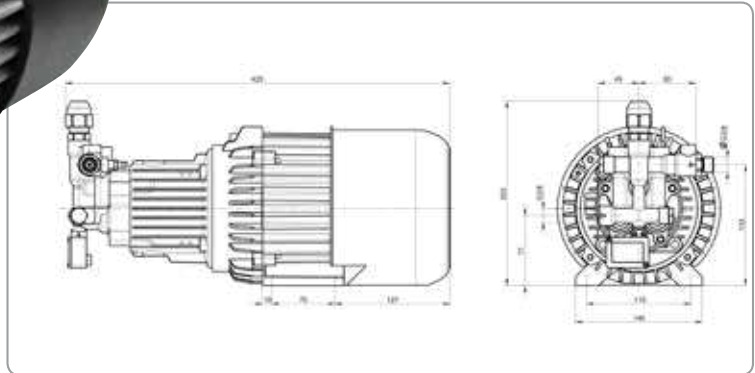


| Model           | Right shaft ver. | Left shaft ver. | RPM       | Max. pressure |      |     | Flow rate |     | Requested power |     |      |      | Weight |     |     |      |
|-----------------|------------------|-----------------|-----------|---------------|------|-----|-----------|-----|-----------------|-----|------|------|--------|-----|-----|------|
|                 | Code             | Code            |           | bar           | psi  | MPa | l/m       | GPM | HP              | kW  |      | kg   | lbs    |     |     |      |
| CL 54-20 11-200 | 6.605.0183       | 6.605.0184      | 1450 1750 | 200           | 2900 | 20  | 11        | 13  | 2.9             | 3.5 | 6    | 6,5  | 4,4    | 4,8 | 9,8 | 21,6 |
| CL 54-20 15-200 | 6.605.0185       | 6.605.0186      | 1450 1750 | 200           | 2900 | 20  | 15        | 18  | 4               | 4.7 | 7,5  | 9,2  | 5,5    | 6,9 | 9,8 | 21,6 |
| CL 54-20 21-200 | 6.605.0187       | 6.605.0188      | 1450 1750 | 200           | 2900 | 20  | 21        | 25  | 5.5             | 6.6 | 10,5 | 12,8 | 7,7    | 9,5 | 9,8 | 21,6 |



## MPBX2 series

(Omnia 1.5 Pump)

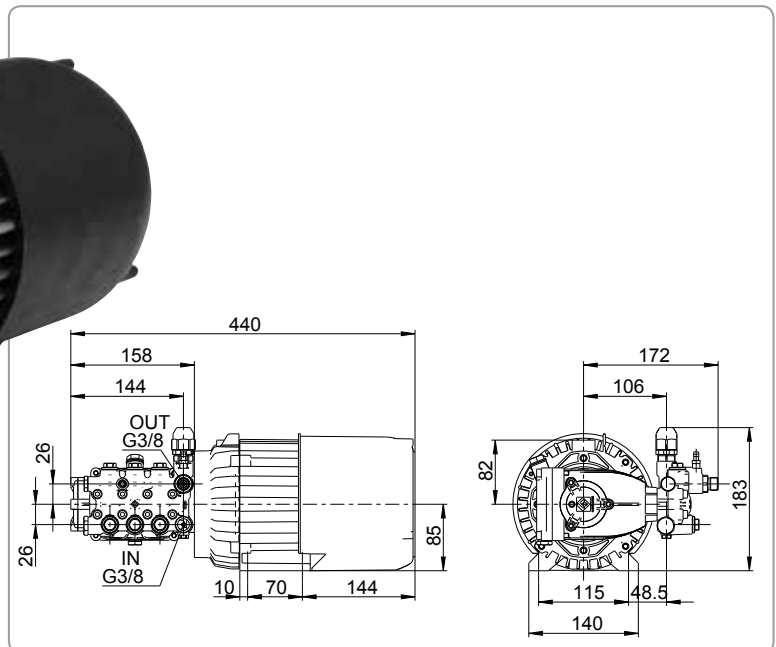


### Equipped with:

- High-pressure motor pumps units
- Fixing bracket included

| Model            | Left shaft ver.<br>Code | RPM  | Max. pressure |      |     | Flow rate |     | Requested power<br>kW | Power supply  | Weight |      |
|------------------|-------------------------|------|---------------|------|-----|-----------|-----|-----------------------|---------------|--------|------|
|                  |                         |      | bar           | psi  | MPa | l/m       | GPM |                       |               | kg     | lbs  |
| MPBX 2-15 11-120 | 8.680.0046              | 2800 | 120           | 1740 | 12  | 11        | 2.9 | 3                     | 1Ph 230V~50Hz | 20,5   | 45,2 |
| MPBX 2-15 07-200 | 8.680.0049              | 2800 | 200           | 2900 | 20  | 7         | 1.8 | 3                     | 1Ph 230V~50Hz | 21     | 46,2 |
| MPBX 2-15 11-150 | 8.680.                  | 2800 | 150           | 2175 | 15  | 11        | 2.9 | 4                     | 3Ph 400V~50Hz | 21     | 46,2 |

## MP4 series

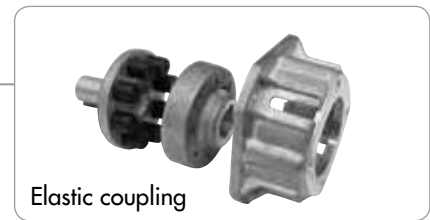
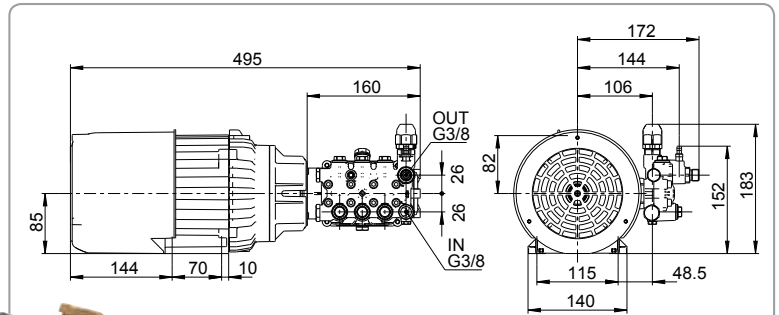
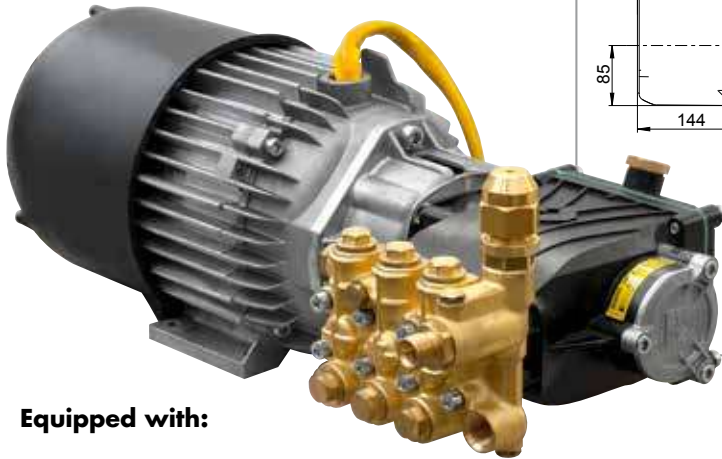


### Equipped with:

- Pressure adjuster included

| Model           | Left shaft ver.<br>Code | RPM  | Max. pressure |      |     | Flow rate |     | Requested power<br>kW | Power supply    | Weight |      |
|-----------------|-------------------------|------|---------------|------|-----|-----------|-----|-----------------------|-----------------|--------|------|
|                 |                         |      | bar           | psi  | MPa | l/m       | GPM |                       |                 | kg     | lbs  |
| MP 34-15 11-120 | 8.680.0100              | 1450 | 120           | 1740 | 12  | 11        | 2,9 | 3                     | 1Ph 230V~50Hz   | 22     | 49,2 |
| MP 34-15 11-120 | 8.680.0101              | 1750 | 120           | 1740 | 12  | 11        | 2,9 | 3                     | 1Ph 220V~60Hz   | 22     | 49,2 |
| MP 34-15 11-150 | 8.680.0102              | 1450 | 150           | 2175 | 15  | 11        | 2,9 | 4                     | 3Ph Y 400V~50Hz | 22,5   | 49,6 |
| MP 34-15 11-150 | 8.680.0103              | 1750 | 150           | 2175 | 15  | 11        | 2,9 | 4                     | 3Ph Y 400V~60Hz | 22,5   | 49,6 |

### MPJ4 series

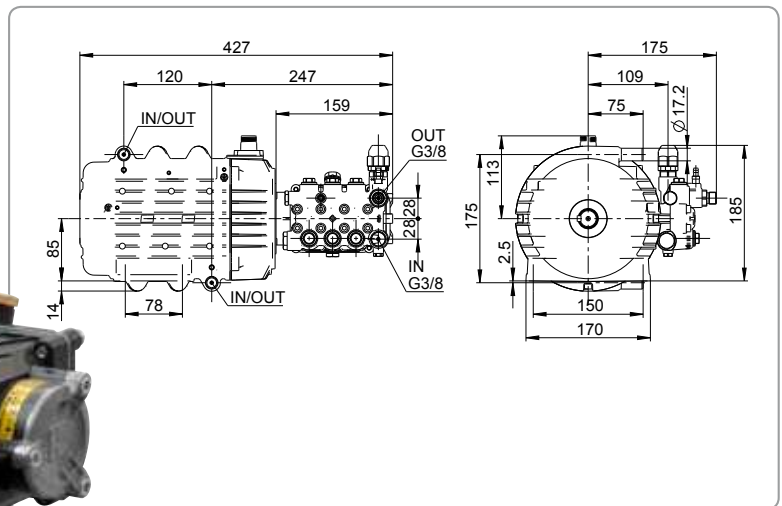


#### Equipped with:

- High-pressure pumps units with elastic coupling
- Pressure adjuster included

| Model            | Left shaft ver.<br>Code | RPM  | Max. pressure |      |     | Flow rate |     | Requested power<br>kW | Power supply    | Weight |      |
|------------------|-------------------------|------|---------------|------|-----|-----------|-----|-----------------------|-----------------|--------|------|
|                  |                         |      | bar           | psi  | MPa | l/m       | GPM |                       |                 | kg     | lbs  |
| MPJ 34-15 11-120 | 8.680.0104              | 1450 | 120           | 1740 | 12  | 11        | 2,9 | 3                     | 1Ph 230V~50Hz   | 22,5   | 49,6 |
| MPJ 34-15 11-120 | 8.680.0105              | 1750 | 120           | 1740 | 12  | 11        | 2,9 | 3                     | 1Ph 220V~60Hz   | 22,5   | 49,6 |
| MPJ 34-15 15-150 | 8.680.0106              | 1450 | 150           | 2175 | 15  | 11        | 2,9 | 4                     | 3Ph Y 400V~50Hz | 23     | 50,6 |
| MPJ 34-15 15-150 | 8.680.0107              | 1750 | 150           | 2175 | 15  | 11        | 2,9 | 4                     | 3Ph Y 400V~60Hz | 23     | 50,6 |

### MPW4 series

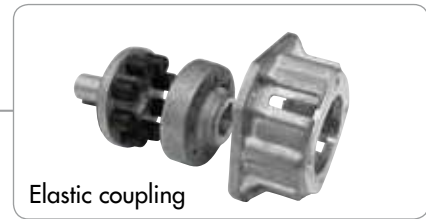
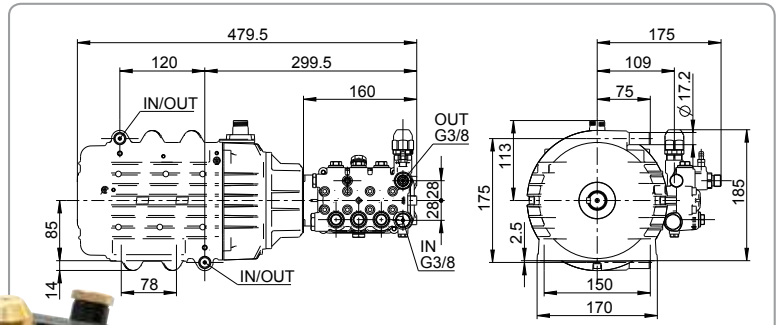
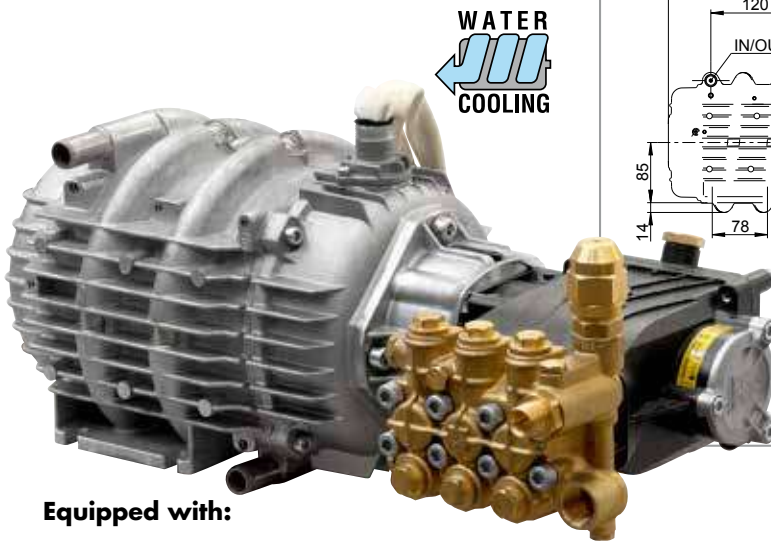


#### Equipped with:

- Fixing bracket included
- Pressure adjuster included

| Model            | Left shaft ver.<br>Code | RPM  | Max. pressure |      |     | Flow rate |     | Requested power<br>kW | Power supply    | Weight |      |
|------------------|-------------------------|------|---------------|------|-----|-----------|-----|-----------------------|-----------------|--------|------|
|                  |                         |      | bar           | psi  | MPa | l/m       | GPM |                       |                 | kg     | lbs  |
| MPW 34-18 15-150 | 8.680.0108              | 1450 | 150           | 2175 | 15  | 15        | 4   | 5                     | 3Ph Y 400V~50Hz | 28,8   | 63,5 |
| MPW 34-18 15-200 | 8.680.0109              | 1450 | 200           | 2900 | 20  | 15        | 4   | 7                     | 3Ph Y 400V~50Hz | 30,8   | 67,9 |
| MPW 34-15 13-200 | 8.680.0110              | 1750 | 200           | 2900 | 20  | 13        | 3,4 | 8,4                   | 3Ph Y 400V~60Hz | 28,5   | 62,8 |

**MPWJ4 series**

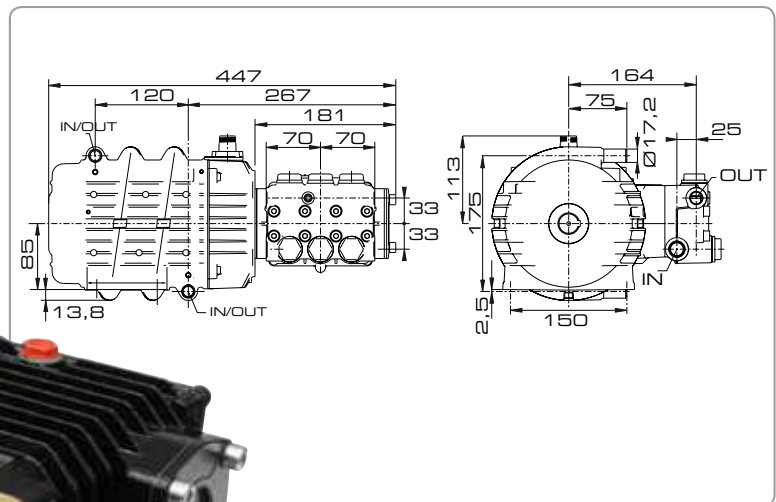


**Equipped with:**

- High-pressure pumps units with elastic coupling
- Fixing bracketed included
- Pressure adjuster included

| Model             | Left shaft ver.<br>Code | RPM  | Max. pressure |      |     | Flow rate |     | Requested power<br>kW | Power supply    | Weight |      |
|-------------------|-------------------------|------|---------------|------|-----|-----------|-----|-----------------------|-----------------|--------|------|
|                   |                         |      | bar           | psi  | MPa | l/m       | GPM |                       |                 | kg     | lbs  |
| MPWJ 34-18 15-150 | 8.680.0111              | 1450 | 150           | 2175 | 15  | 15        | 4   | 5                     | 3Ph Y 400V~50Hz | 29,3   | 64,6 |
| MPWJ 34-18 15-200 | 8.680.0112              | 1450 | 200           | 2900 | 20  | 15        | 4   | 7                     | 3Ph Y 400V~50Hz | 31,3   | 69   |
| MPWJ 34-15 13-200 | 8.680.0113              | 1750 | 200           | 2900 | 20  | 13        | 3,4 | 8,4                   | 3Ph Y 400V~60Hz | 29     | 63,9 |

**MPW5 series**

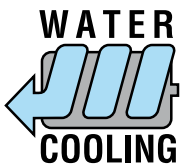
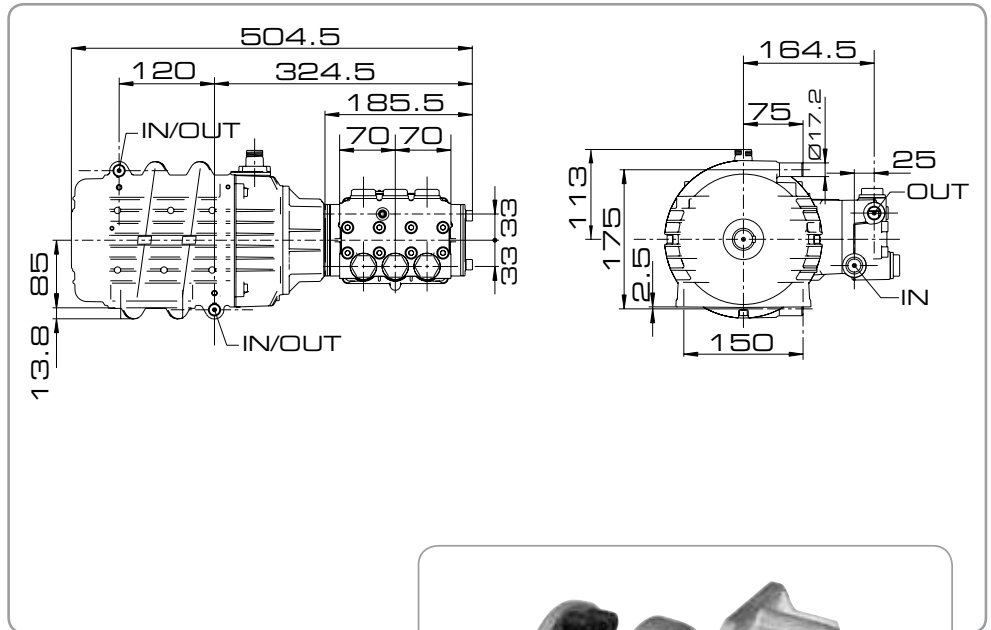


**Equipped with:**

- Fixing bracketed included

| Model            | Left shaft ver.<br>Code | RPM  | Max. pressure |      |     | Flow rate |     | Requested power<br>kW | Power supply    | Weight |      |
|------------------|-------------------------|------|---------------|------|-----|-----------|-----|-----------------------|-----------------|--------|------|
|                  |                         |      | bar           | psi  | MPa | l/m       | GPM |                       |                 | kg     | lbs  |
| MPW 54-20 15-150 | 8.680.0022              | 1450 | 150           | 2175 | 15  | 15        | 4   | 5                     | 3Ph Y 400V~50Hz | 32     | 70,5 |
| MPW 54-20 15-200 | 8.680.0023              | 1450 | 200           | 2900 | 20  | 15        | 4   | 7                     | 3Ph Y 400V~50Hz | 34     | 74,9 |

### MPWJ5 series



Elastic coupling



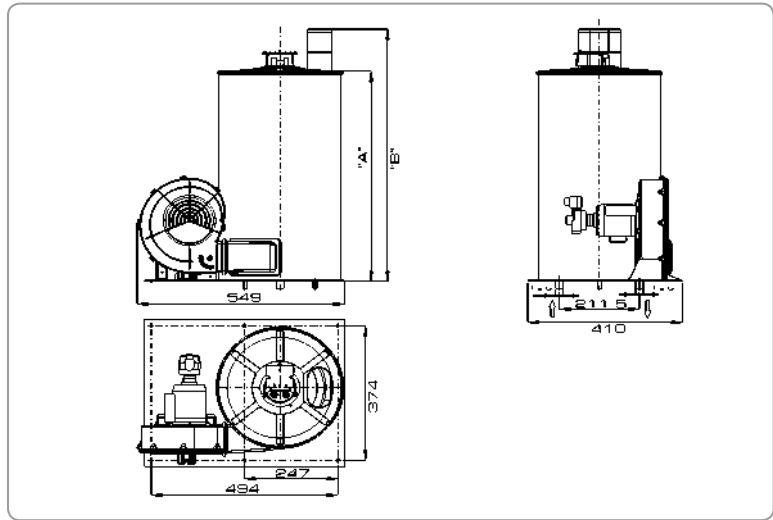
#### Equipped with:

- High-pressure pumps units with elastic coupling
- Fixing bracket included

| Model             | Left shaft ver.<br>Code | RPM  | Max. pressure |      |     | Flow rate |     | Requested power<br>kW | Power supply    | Weight |      |
|-------------------|-------------------------|------|---------------|------|-----|-----------|-----|-----------------------|-----------------|--------|------|
|                   |                         |      | bar           | psi  | MPa | l/m       | GPM |                       |                 | kg     | lbs  |
| MPWJ 54-20 15-150 | 8.680.0028              | 1450 | 150           | 2175 | 15  | 15        | 4   | 5                     | 3Ph Y 400V~50Hz | 32,5   | 71,6 |
| MPWJ 54-20 15-200 | 8.680.0029              | 1450 | 200           | 2900 | 20  | 15        | 4   | 7                     | 3Ph Y 400V~50Hz | 34,5   | 76   |
| MPWJ 54-20 21-200 | 8.680.0030              | 1450 | 200           | 2900 | 20  | 21        | 5,5 | 9,4                   | 3Ph Y 400V~50Hz | 37,5   | 82,6 |



## High 08/Low 08 series



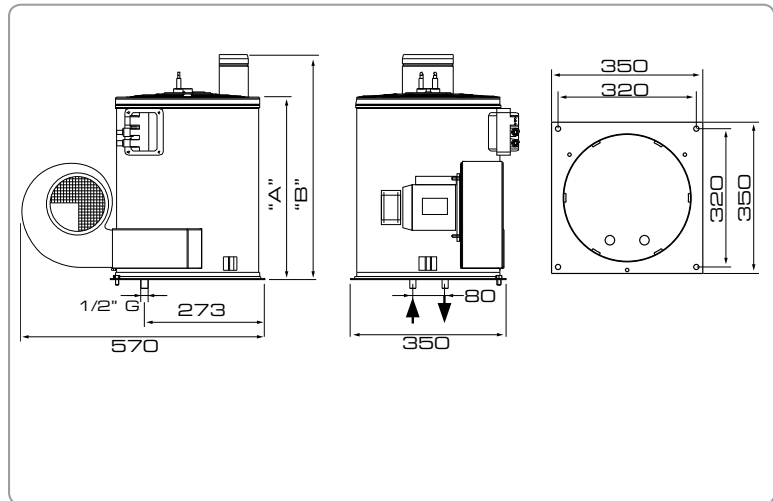
(\*) Available in various voltages

### Equipped with:

- Complete boilers for high-pressure cleaners

| Model   | Code       | Max. pressure |      |     | Flow rate |      | Requested power | Power supply (*) | Thermal power | Coil lenght | Dimension               |      | Weight |  |
|---------|------------|---------------|------|-----|-----------|------|-----------------|------------------|---------------|-------------|-------------------------|------|--------|--|
|         |            | bar           | psi  | MPa | l/m       | GPM  |                 |                  |               |             | W                       | kg   | lbs    |  |
| Low 08  | 8.690.0069 | 200           | 2900 | 20  | 15        | 3.96 | 300             | 230V ~ 50Hz      | 49.000 Kcal/h | 28 m        | 471 mm (A) - 587 mm (B) | 50   | 110,2  |  |
| High 08 | 8.690.0070 | 200           | 2900 | 20  | 21        | 5.55 | 300             | 230V ~ 50Hz      | 73.500 Kcal/h | 34 m        | 586 mm (A) - 702 mm (B) | 62,4 | 137,5  |  |

## Top/High/Low series



(\*) Available in various voltages

### Equipped with:

- Complete boilers for high-pressure cleaners

| Model | Code       | Max. pressure |      |     | Flow rate |      | Requested power | Power supply (*) | Thermal power | Coil lenght | Dimension               |      | Weight |  |
|-------|------------|---------------|------|-----|-----------|------|-----------------|------------------|---------------|-------------|-------------------------|------|--------|--|
|       |            | bar           | psi  | MPa | l/m       | GPM  |                 |                  |               |             | W                       | kg   | lbs    |  |
| Top   | 8.690.0010 | 200           | 2900 | 20  | 12        | 3.17 | 300             | 230V ~ 50Hz      | 49000 Kcal/h  | 20 m        | 405 mm (A) - 510 mm (B) | 38   | 85,9   |  |
| Low   | 8.690.0001 | 200           | 2900 | 20  | 15        | 3.96 | 300             | 230V ~ 50Hz      | 63000 Kcal/h  | 29,5 m      | 465 mm (A) - 565 mm (B) | 48,5 | 106,8  |  |
| High  | 8.690.0002 | 200           | 2900 | 20  | 21        | 5.55 | 300             | 230V ~ 50Hz      | 63000 Kcal/h  | 36,5 m      | 600 mm (A) - 690 mm (B) | 54   | 120    |  |

## Power, air suction, depression: which technical data is most important?

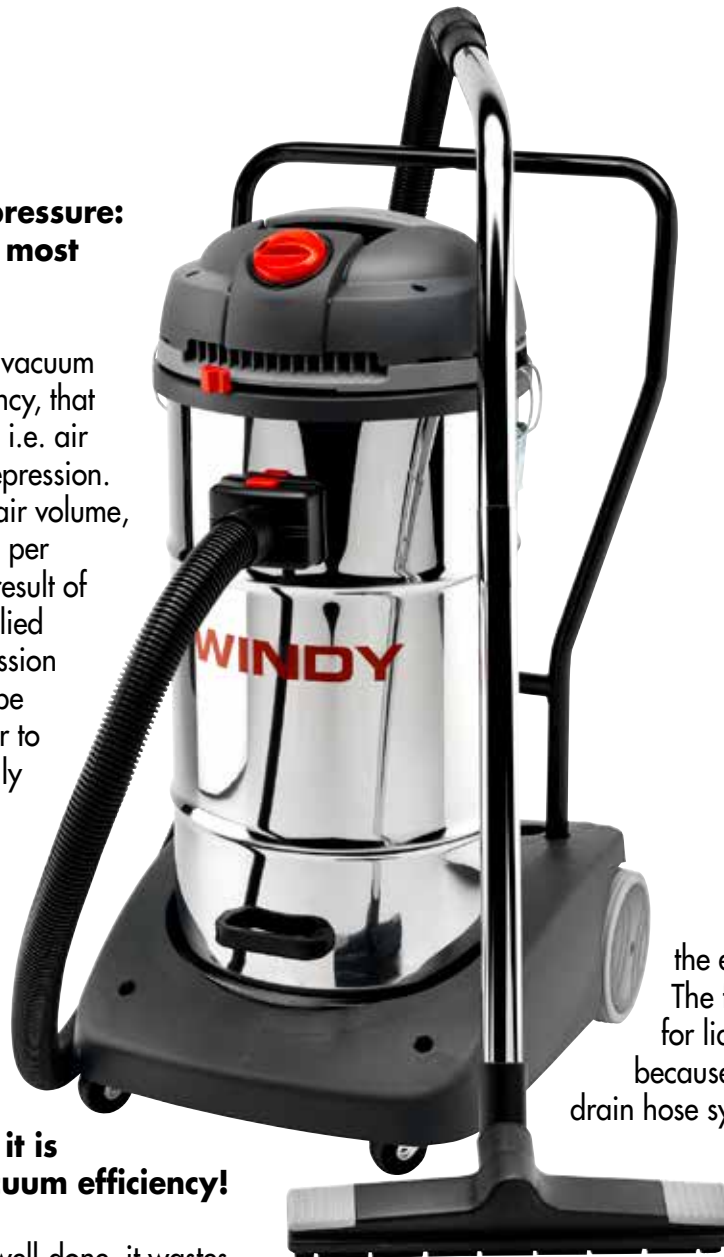
The right technical data of a vacuum cleaner is the vacuum efficiency, that is the mix of different values, i.e. air suction, motor power and depression. Air suction is the vacuumed air volume, commonly expressed in litres per seconds (l/sec) and it is the result of the average air speed multiplied by hose diameter. The depression is the vacuum power (it can be defined as the vacuum power to collect dirt) and it is commonly expressed in kPA or in mbar. It is an inverse relation to air suction: the narrower the flex diameter, the least vacuumed air volume but the best strength to pick up dirt.

## Power motor is expressed in Watt and it is not proportional to vacuum efficiency!

If the vacuum cleaner is not well-done, it wastes a lot of electric power without having the best performances possible. Summing up, the vacuum cleaner efficiency is a relationship between air suction (resulting in multiplication of pressure and air suction) and motor power. All our vacuum cleaners have a top efficiency and are manufactured considering essence and user's benefit.

## Fixed or tilting trolley, which one to choose?

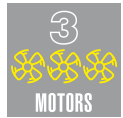
The choice of the trolley must be made considering the type of use needed. Generally, tilting trolley is much more useful to collect dust and solids, because the tilting tank make it easier



the emptying or pouring. The fixed trolley is better for liquids vacuuming, because it is equipped with drain hose system, emptying is fast and step by step, avoiding the effort of lifting the tank.

## What kind of tank material is to be preferred?

Our vacuum cleaner range includes plastic tanks (polypropylene or PP) or stainless steel tanks. The PP tank is flexible, shock proof and resistant to chemical products. It is recommended for frequent moving uses or vacuuming of particularly aggressive chemicals (for example in combination with a single disc machine). The stainless steel tank is more rigid, steadier, resistant to mechanical abrasion and it is aesthetically agreeable. It is recommended for static use, with abrasive materials or in a public place.



**Number of motors:**

It explains how

many motors there are in the vacuum cleaner. Ignition is independent in order to increase progressively the performances. The working system (whenever it is more than one) is in parallel, so the air suction increases and the depression is steady whenever the motors are progressively switched on.



**Anti electrostatic current device**

Dust rubbing at high speed against vacuum cleaner walls creates a magnetic field that neutralizes on the user with small and annoying discharges also through plastic material. This certified system removes this phenomenon on the machine, granting best comfort and safety for the user.



**Paper collector filter**

Allows filtering and collection (with a valve) of rough dirt without dirty the tank whenever it is time to replace it. It is useful for dry waste, also in combination of other thinner filters.



**Cloth filter**

The cloth consistency and its shape allow a simple cleaning phase and the re-usage of the filter. It can be used only for vacuuming dry waste; if combined with nylon filter it is possible to work for a longer period of time.



**Cartridge filter**

The continuous folders arranged in circle allow a higher filtering surface in a smaller area. More cleaning autonomy with a thin filtering action. It can be used only for vacuuming dry waste and it is re-usable.



**HEPA filter**

High Efficiency Particulate Arrestance. Hepa filter is 99,97% efficient until 0,3 micron impurities.



**Multipurpose washable filter**

It combines all the advantages of the cartridge filter but with the plus that it can vacuum both dry and wet at the same time. It can be washed with tap water.



**Filter shaker**

It clears filter from dust without touching it or opening the vacuum cleaner; the vacuum efficiency is kept at max.



**Foam system:**

the machine is equipped with connection for compressed air and pressure gauge for foam cleaning. Using the lance with the hose a thick foam can be produced that will stay on the dirty components, giving more effectiveness to the detergent.

## Nomenclature

### Windy 365 IF

Number of motors

Tank capacity (litres)

F = Fixed  
R = Tilting

P = Plastic  
I = Stainless steel



| Code       | Model        | Page | Voltage            | Motor power | Column depression      | Air suction | Tank capacity | Noise level | Packaging L x l x H | Packaging weight | Packaging weight | Pieces for pallet |
|------------|--------------|------|--------------------|-------------|------------------------|-------------|---------------|-------------|---------------------|------------------|------------------|-------------------|
|            |              |      | V - Hz             | W/W max     | kPa/mmH <sub>2</sub> O | l/s         | l             | dB (A)      | cm                  | kg               | lbs              | N°                |
| 8.246.0001 | SILENT       | 78   | 230V - 50Hz        | 800/900     | 24/2400                | 44 l/s      | 12 l          | 72 dB (A)   | 39x39x42            | 7,4              | 16               | 30                |
| 8.246.0007 | SILENT FR    | 79   | 230V - 50Hz        | 800/900     | 24/2400                | 44 l/s      | 12 l          | 72 dB (A)   | 39x39x42            | 7,4              | 16               | 30                |
| 8.214.0601 | WHISPER      | 80   | 230V - 50Hz        | 800/900     | 24/2400                | 44 l/s      | 15 l          | 72 dB (A)   | 49x39x42            | 9,5              | 20               | 20                |
| 0.052.0019 | PRO WORKER   | 82   | 220/240V - 50/60Hz | 1200/1400   | 24/2400                | 70 l/s      | 30 l          | 75 dB (A)   | 51x36x56            | 11               | 24               | 16                |
| 8.249.0001 | WINDY 120 IF | 83   | 230V - 50Hz        | 1200/1400   | 24/2400                | 65 l/s      | 20 l          | 79 dB (A)   | 38x37x62            | 10               | 22               | 18                |
| 8.250.0001 | WINDY 130 IF | 84   | 230V - 50Hz        | 1200/1400   | 24/2400                | 65 l/s      | 30 l          | 79 dB (A)   | 38x37x70            | 11               | 24               | 18                |
| 8.263.0002 | WINDY 165 PF | 85   | 230V - 50Hz        | 1200/1400   | 24/2400                | 65 l/s      | 65 l          | 79 dB (A)   | 75x60x103           | 30,5             | 67               | 4                 |
| 8.263.0001 | WINDY 165 IF | 86   | 230V - 50Hz        | 1200/1400   | 24/2400                | 65 l/s      | 65 l          | 79 dB (A)   | 75x60x103           | 30,5             | 67               | 4                 |
| 8.239.0008 | WINDY 265 PF | 87   | 230V - 50Hz        | 2000/2400   | 22/2200                | 130 l/s     | 65 l          | 79 dB (A)   | 60x48x87            | 18,8             | 41               | 8                 |
| 8.239.0001 | WINDY 265 IF | 88   | 230V - 50Hz        | 2000/2400   | 22/2200                | 130 l/s     | 65 l          | 79 dB (A)   | 60x48x87            | 19,8             | 44               | 8                 |
| 8.240.0001 | WINDY 365 IR | 89   | 230V - 50Hz        | 3000/3600   | 22/2200                | 195 l/s     | 65 l          | 79 dB (A)   | 65x55x104           | 25,5             | 56               | 4                 |
| 8.247.0002 | WINDY 278 PF | 90   | 230V - 50Hz        | 2000/2400   | 22/2200                | 130 l/s     | 78 l          | 79 dB (A)   | 75x60x103           | 29,6             | 65               | 4                 |
| 8.247.0001 | WINDY 278 IF | 91   | 230V - 50Hz        | 2000/2400   | 22/2200                | 130 l/s     | 78 l          | 79 dB (A)   | 75x60x103           | 29,6             | 65               | 4                 |
| 8.256.0002 | WINDY 378 PF | 93   | 230V - 50Hz        | 3000/3600   | 22/2200                | 195 l/s     | 78 l          | 79 dB (A)   | 75x60x103           | 30,5             | 67               | 4                 |



Windy 378 IR    Zeus IF    Domus/Taurus PR    Domus IF    Domus/Taurus IR    GBP 20    Jupiter    Apollo IF    Solaris IF    Costellation IR    Windy IE Foam

| Code       | Model           | Page | Voltage     | Motor power | Column depression      | Air suction | Tank capacity | Noise level | Packaging<br>L x l x H | Packaging weight | Packaging weight | Pieces for pallet |
|------------|-----------------|------|-------------|-------------|------------------------|-------------|---------------|-------------|------------------------|------------------|------------------|-------------------|
|            |                 |      | V - Hz      | W/W max     | kPa/mmH <sub>2</sub> O | l/s         | l             | dB (A)      | cm                     | kg               | lbs              | N°                |
| 8.248.0001 | WINDY 378 IR    | 94   | 230V - 50Hz | 3000/3600   | 22/2200                | 195 l/s     | 78 l          | 79 dB (A)   | 75x60x103              | 30,5             | 67               | 4                 |
| 8.215.0501 | ZEUS IF         | 95   | 230V - 50Hz | 1200/1400   | 24/2400                | 53 l/s      | 50 l          | 71 dB (A)   | 64x54x92               | 21,5             | 47               | 4                 |
| 8.213.0509 | DOMUS PR        | 96   | 230V - 50Hz | 2000/2400   | 24/2400                | 108 l/s     | 78 l          | 74 dB (A)   | 75x60x103              | 30,5             | 67               | 4                 |
| 8.216.0502 | DOMUS IF        | 97   | 230V - 50Hz | 2000/2400   | 24/2400                | 108 l/s     | 78 l          | 74 dB (A)   | 75x60x103              | 30,5             | 67               | 4                 |
| 8.213.0501 | DOMUS IR        | 98   | 230V - 50Hz | 2000/2400   | 24/2400                | 108 l/s     | 78 l          | 74 dB (A)   | 75x60x103              | 33,5             | 74               | 4                 |
| 8.212.0508 | TAURUS PR       | 99   | 230V - 50Hz | 3000/3600   | 24/2400                | 162 l/s     | 77 l          | 76 dB (A)   | 75x60x103              | 32,5             | 71               | 4                 |
| 8.212.0501 | TAURUS IR       | 101  | 230V - 50Hz | 3000/3600   | 24/2400                | 162 l/s     | 78 l          | 76 dB (A)   | 75x60x103              | 34,5             | 76               | 4                 |
| 8.212.0523 | TAURUS IR 2 Way | 102  | 230V - 50Hz | 3000/3600   | 24/2400                | 162 l/s     | 78 l          | 76 dB (A)   | 75x60x103              | 32               | 70               | 4                 |
| 8.204.0066 | GBP 20 Pro      | 103  | 230V - 50Hz | 1200/1400   | 27/2700                | 70 l/s      | 20 l          | 75 dB (A)   | 40x39x64               | 9,5              | 20,9             | 18                |
| 0.065.0001 | JUPITER         | 104  | 230V - 50Hz | 1100        | 23/2300                | 50 l/s      | 6,5 l         | 70 dB (A)   | 55x35x64               | 14               | 31               | 12                |
| 8.220.0501 | APOLLO IF       | 105  | 230V - 50Hz | 1200/1400   | 24/2400                | 53 l/s      | 50 l          | 71 dB (A)   | 64x54x92               | 24               | 53               | 4                 |
| 8.221.0508 | SOLARIS IF      | 106  | 230V - 50Hz | 2200/2400   | 24/2400                | 108 l/s     | 78 l          | 74 dB (A)   | 75x60x103              | 37               | 82               | 4                 |
| 8.221.0501 | COSTELLATION IR | 107  | 230V - 50Hz | 2200/2400   | 24/2400                | 108 l/s     | 78 l          | 74 dB (A)   | 75x60x103              | 37               | 82               | 4                 |
| 8.239.0017 | WINDY IE Foam   | 108  | 230V - 50Hz | 2000/2400   | 22/2200                | 130 l/s     | 65 l          | 79 dB (A)   | 65x55x104              | 26,5             | 58,5             | 4                 |

### Silent

**LONG LIFE  
MOTOR**



#### Standard equipment:

- 5.209.0210 Hose 2 m



- 6.205.0187



- 3.754.0005



- 3.754.0015



- 3.754.0281



- 3.754.0004



- 3.752.0115



- 5.209.0207



- Power cable 7,5 m

#### Optional:

- code. 5.212.0023 Paper collector filter set (10 pcs)
- code. 5.212.0149 Microfiber collector filter set (10 pcs)
- code. 6.205.0199 Paper collector filter set (300 pcs)
- code. 6.205.0200 Paper collector filter set (550 pcs)
- code. 3.754.0081 Brush carpet Turbo brush Type 2
- code. 5.212.0163 HEPA filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

**Professional ultra silent vacuum cleaners Lavor were conceived to meet the needs of floor care sector.**

#### Equipped with:

- Silenced single stage motor (high efficiency).
- Integrated accessory holder.
- Shock and overturn proof design.
- 12 litre plastic tank (PP)
- Cloth filter
- Rotating ON/OFF switch
- Paper collector filter.
- Accessories Ø 35

|                   | Silent                         |
|-------------------|--------------------------------|
| code              | 8.246.0001                     |
| voltage           | 230-240V ~ 50-60Hz             |
| n°motors - power  | 1 - 800 W                      |
| column depression | 24 kPa/2400 mmH <sub>2</sub> O |
| air suction       | 44 l/s                         |
| total volume      | 12 l.                          |
| dimension/weight  | 39x39x42 cm/6,8 kg             |

## Silent FR

**LONG LIFE  
MOTOR**

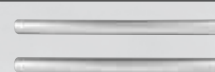


### Standard equipment:

• 5.209.0220  
Hose 2 m ø32



• 3.753.0138



• 3.754.0269



• 3.754.0270



• 3.754.0267



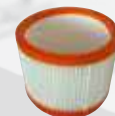
• 3.754.0268



• 3.752.0279



• 5.212.0163



• High visibility safety power cable 12 m

### Optional:

- code. 5.212.0023 Paper collector filter set (10 pcs)
- code. 5.212.0149 Microfiber collector filter set (10 pcs)
- code. 3.754.0081 Brush carpet Turbo brush Type 2
- code. 6.205.0199 Paper collector filter set (300 pcs)
- code. 6.205.0200 Paper collector filter set (550 pcs)



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

**Professional ultra silent vacuum cleaners Lavor were conceived to meet the needs of floor care sector.**

### Equipped with:

- Silenced single stage motor (high efficiency).
- Integrated accessory holder.
- Shock and overturn proof design.
- 12 litre plastic tank (PP)
- HEPA filter
- Rotating ON/OFF switch
- Microfiber collector filter HEPA flow
- High visibility safety power cable 12 m.

|                   | Silent FR                      |
|-------------------|--------------------------------|
| code              | 8.246.0007                     |
| voltage           | 220-240V ~ 50-60Hz             |
| n°motors - power  | 1 - 800 W                      |
| column depression | 24 kPa/2400 mmH <sub>2</sub> O |
| air suction       | 44 l/s                         |
| total volume      | 12 l.                          |
| dimension/weight  | 39x39x42 cm/6,8 kg             |

### Whisper



**NEW**



#### Standard equipment:

- 5.209.0077 Hose 2,5 m



- 3.753.0103



- 3.754.0005



- 3.754.0015



- 3.754.0205



- 3.754.0004



- 3.752.0115



- 3.752.0093



- Power cable 15 m

#### Optional:

- code. 3.752.0092 HEPA filter
- code. 5.212.0023 Paper collector filter set (10 pcs)
- code. 3.754.0081 Brush carpet Turbo brush Type 2
- code. 5.212.0149 Microfiber collector filter set (10 pcs)

#### Equipped with:

- Ultra silenced single stage motor (high efficiency).
- Paper and cartridge filter.
- Full collector filter indicator.
- Exhaust air filter. Integrated accessory holder.
- Quick power cable (15 m) replacing system.
- Shock & overturn proof design.
- Traceless wheels.

|                        | Whisper                        |
|------------------------|--------------------------------|
| code                   | 8.214.0601                     |
| voltage                | 230-240V ~ 50-60Hz             |
| n°motors - power (max) | 1 - 800 W                      |
| column depression      | 24 kPa/2400 mmH <sub>2</sub> O |
| air suction            | 44 l/s                         |
| total volume/dust      | 15 l./10 l.                    |
| dimension/weight       | 47x34x36 cm / 5,5 kg           |



## New commercial wet & dry range of vacuum cleaners



**PROWORKER** is the NEW LAVOR wet and dry vacuum cleaner with power tool socket, automatic filter shaker and blowing system, ideal for challenging and heavy applications with required suction directly from the tool. The constant use of PROWORKER helps the maintenance of a healthy and clean working environment.

Essential to comply with the directives on hazardous dust extraction/emission, it offers a multilevel filtering system made of M/E10 suction filter with NANO TECH coating, microfiber collector filter, and M/E10 output air filter which classify it as a **CLASS M** Certified vacuum cleaner.

**WINDY range** is the commercial vacuum cleaners line suitable for wet and dry applications: three models equipped with 1 up to 3 professional single stage motor (from 1,2 up to 3,6 kW), stainless steel or anti shock plastic tank, tilting or fixed tank: WINDY are mainly designed for daily light industrial use and are perfectly suited to the most common demand of cleaning contractors, garages, workshops etc...

**They are equipped with the new manual RF (reverse flow) filter cleaning system, granting high cleaning efficiency and longer lifespan of the motors.**

Practical in every situation, the new WINDY range offers accessories holder, cable holder and a new rotating ON/OFF switch, simple and resistant to daily use.

Equipped with professional accessories and professional filter, WINDY is the answer to your requests!



### PRO Worker EM

Wet & Dry vacuum cleaner with power tool socket with remote control and automatic filter shaker



AUTOMATIC ON/OFF



MAX 2200 W



#### Equipped with:

- 1 by pass high efficiency motors
- Suction system with by-pass cooling
- Power tool socket (max 2200 W)
- Automatic ON/OFF filter shaker
- Shock proof tank (PP)
- Liquid float valve
- Dirty filter indicator
- Rotary switch
- M/E10 filter
- Microfiber collector filter
- M/E10 suction filter with NANO TECH coating
- Extension steel pipe
- Multidiameter tool adapter
- Flex hose elastic fastening
- Accessories Ø35.

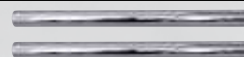


#### Standard equipment:

• 0.952.0058  
+ 3.753.0003



• 6.205.0109



• 3.754.0168



• 3.754.0169



• 3.754.0170



• 3.754.0005



• 4.208.0063



• 0.952.0054



• 2x 3.752.0292



• 0.952.0055



• 0.952.0056



• 0.952.0057



• 7.5 m neoprene power cable



#### Optional:

- code. 5.212.0165 Microfiber collector filter set (5 pcs)



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                   | PRO Worker EM                  |
|-------------------|--------------------------------|
| code              | 0.052.0019                     |
| voltage           | 220-240V ~ 50-60Hz             |
| n°motors - power  | 1 - 1400 W                     |
| column depression | 24 kPa/2400 mmH <sub>2</sub> O |
| air suction       | 70 l/s                         |
| volume            | 30 l.                          |
| dimension/weight  | 51x36x56 cm/11 kg              |

## Windy 120 IF



### Standard equipment:

• 5.209.0077 Hose 2,5 m



• 6.205.0109



• 3.754.0005



• 3.754.0015



• 3.754.0004



• 3.754.0168



300 mm

• 3.754.0169



• 3.754.0170



• 5.209.0009



• 3.752.0175



• 3.752.0114



• Power cable 7,5 m

### Optional:

- code. 5.212.0022 Paper collector filter set - 10 pcs
- code. 5.212.0043 Cloth filter
- code. 3.754.0205 Brush floor/carpet with wheels
- code. 3.754.0081 Brush carpet Turbo brush Type 2
- code. 5.212.0157 Cartridge filter
- code. 5.212.0158 HEPA filter
- code. 5.212.0155 Washable filter

### Equipped with:

- High efficiency by pass motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 7,5 m power cable.
- Accessories Ø 35.
- Handy accessory holder.

|                          | Windy 120 IF                   |
|--------------------------|--------------------------------|
| code                     | 8.249.0001                     |
| voltage                  | 220-240V ~ 50-60Hz             |
| n°motors - power (max)   | 1 - 1200 (1400) W              |
| column depression        | 24 kPa/2400 mmH <sub>2</sub> O |
| air suction              | 65 l/s                         |
| total volume/dust/liquid | 20 l./14 l./16 l.              |
| dimension/weight         | 35x35x66 cm/8 Kg               |

### Windy 130 IF



#### Equipped with:

- High efficiency by pass motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Shock proof trolley.
- Liquid float valve.
- Washable filter.
- 7,5 m power cable.
- Accessories Ø 35.
- Handy accessory holder.

#### Standard equipment:

- 5.209.0077 Hose 2,5 m



- 6.205.0109



- 3.754.0005



- 3.754.0015



- 3.754.0004



- 3.754.0168



- 3.754.0169



- 3.754.0170



- 5.212.0155



- 3.752.0175



- 3.752.0114



- Power cable 7,5 m

#### Optional:

- code. 5.212.0022 Paper collector filter set - 10 pcs
- code. 5.212.0043 Cloth filter
- code. 3.754.0205 Brush flor/carpet with wheels
- code. 3.754.0081 Brush carpet Turbo brush Type 2
- code. 5.212.0157 Cartridge filter
- code. 5.212.0158 HEPA filter

#### Windy 130 IF

|                          |                                |
|--------------------------|--------------------------------|
| code                     | 8.250.0001                     |
| voltage                  | 220-240V ~ 50-60Hz             |
| n°motors - power (max)   | 1 - 1200 (1400) W              |
| column depression        | 24 kPa/2400 mmH <sub>2</sub> O |
| air suction              | 65 l/s                         |
| total volume/dust/liquid | 30 l./15 l./17 l.              |
| dimension/weight         | 37x37x71 cm/8,5 Kg             |

## Windy 165 PF



### Equipped with:

- High efficiency by pass motor.
- Suction system with by-pass cooling.
- Plastic tank (PP).
- Professional closing hooks.
- Static electric shock inhibitor.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 7,5 m power cable.
- Easy standing head (during filter cleaning).
- Traceless wheels.
- Accessories Ø 40.

### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0185



300 mm

- 3.754.0169



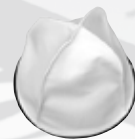
- 3.754.0170



- 6.205.0011



- 6.205.0008



- Power cable 10 m

### Optional:

- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.212.0094 Nylon filter
- code. 5.212.0157 Cartridge filter
- code. 5.212.0158 HEPA filter
- code. 5.212.0155 Washable filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

### Windy 165 PF

|                          |                                |
|--------------------------|--------------------------------|
| code                     | 8.263.0002                     |
| voltage                  | 220-240V ~ 50-60Hz             |
| n°motors - power (max)   | 1 - 1200 (1400) W              |
| column depression        | 24 kPa/2400 mmH <sub>2</sub> O |
| air suction              | 65 l/s                         |
| total volume/dust/liquid | 65 l./30 l./40 l.              |
| dimension/weight         | 44x46x96 cm/13 kg              |

### Windy 165 IF



#### Equipped with:

- High efficiency by pass motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Professional closing hooks.
- Static electric shock inhibitor.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 7,5 m power cable.
- Easy standing head (during filter cleaning).
- Traceless wheels.
- Accessories Ø 40.

#### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0185



- 3.754.0169



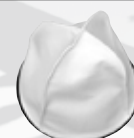
- 3.754.0170



- 6.205.0011



- 6.205.0008



- Power cable 10 m

#### Optional:

- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.212.0094 Nylon filter
- code. 5.212.0157 Cartridge filter
- code. 5.212.0158 HEPA filter
- code. 5.212.0155 Washable filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

| Windy 165 IF             |                                |
|--------------------------|--------------------------------|
| code                     | 8.263.0001                     |
| voltage                  | 220-240V ~ 50-60Hz             |
| n°motors - power (max)   | 1 - 1200 (1400) W              |
| column depression        | 24 kPa/2400 mmH <sub>2</sub> O |
| air suction              | 65 l/s                         |
| total volume/dust/liquid | 65 l./30 l./40 l.              |
| dimension/weight         | 44x46x96 cm/13 kg              |

## Windy 265 PF



### Equipped with:

- 2 high efficiency by pass motors.
- Suction system with by-pass cooling.
- Filter cleaning system.
- Plastic tank (PP).
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 7,5 m power cable.
- Traceless wheels.
- Accessories Ø 40.
- Handy accessory holder.

### Standard equipment:

- 5.209.0021 Hose 2,5 m 
- 6.205.0126 
- 3.754.0048 
- 3.754.0049 
- 3.754.0083  400 mm
- 3.754.0084 
- 3.754.0085 
- 6.205.0151 
- Power cable 7,5 m

### Optional:

- code. 5.212.0022 Paper collector filter set - 10 pcs
- code. 5.209.0177 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

### Windy 265 PF

|                          |                                |
|--------------------------|--------------------------------|
| code                     | 8.239.0008                     |
| voltage                  | 220-240V ~ 50-60Hz             |
| n°motors - power (max)   | 2 - 2000 (2400) W              |
| column depression        | 22 kPa/2200 mmH <sub>2</sub> O |
| air suction              | 130 l/s                        |
| total volume/dust/liquid | 65 l./30 l./40 l.              |
| dimension/weight         | 44x46x96 cm/13 kg              |

### Windy 265 IF



#### Equipped with:

- 2 high efficiency by pass motors.
- Suction system with by-pass cooling.
- Filter cleaning system.
- S. S. tank.
- Static electric shock inhibitor.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 7,5 m power cable.
- Traceless wheels.
- Accessories Ø 40.
- Handy accessory holder.

#### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



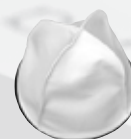
- 3.754.0084



- 3.754.0085



- 6.205.0151



- Power cable 7,5 m

#### Optional:

- code. 5.212.0022 Paper collector filter set - 10 pcs
- code. 5.209.0177 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                          | Windy 265 IF                   |
|--------------------------|--------------------------------|
| code                     | 8.239.0001                     |
| voltage                  | 220-240V ~ 50-60Hz             |
| n°motors - power (max)   | 2 - 2000 (2400) W              |
| column depression        | 22 kPa/2200 mmH <sub>2</sub> O |
| air suction              | 130 l/s                        |
| total volume/dust/liquid | 65 l./30 l./40 l.              |
| dimension/weight         | 44x46x96 cm/14,5 kg            |



## Windy 365 IR



### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



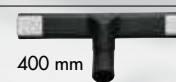
- 3.754.0048



- 3.754.0049



- 3.754.0083



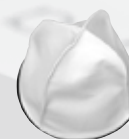
- 3.754.0084



- 3.754.0085



- 6.205.0151



- Power cable 7,5 m

### Equipped with:

- 3 high efficiency by pass motors.
- Suction system with by-pass cooling.
- Filter cleaning system.
- S. S. tank.
- Static electric shock inhibitor.
- Tilting tank.
- Fully removable tank.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 7,5 m power cable.
- Traceless wheels.
- Accessories Ø 40.
- Handy accessory holder.

### Optional:

- code. 5.212.0022 Paper collector filter set - 10 pcs
- code. 5.209.0177 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Windy 365 IR

|                          |                                |
|--------------------------|--------------------------------|
| code                     | 8.240.0001                     |
| voltage                  | 220-240V ~ 50-60Hz             |
| n°motors - power (max)   | 3 - 3000 (3600) W              |
| column depression        | 22 kPa/2200 mmH <sub>2</sub> O |
| air suction              | 195 l/s                        |
| total volume/dust/liquid | 65 l./30 l./40 l.              |
| dimension/weight         | 62x51x100 cm/20 kg             |

### Windy 278 PF



#### Equipped with:

- 2 high efficiency by pass motors.
- Suction system with by-pass cooling.
- Filter cleaning system.
- Plastic tank (PP).
- Shock proof trolley.
- Liquid float valve.
- Drain hose system.
- Cloth filter.
- 7,5 m power cable.
- Traceless wheels.
- Accessories Ø 40.
- Handy accessory holder.

#### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



- 3.754.0084



- 3.754.0085



- 5.509.2176



- Power cable 7,5 m

#### Optional:

- code. 5.212.0022 Paper collector filter set - 10 pcs
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 Hepa filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Windy 278 PF

|                          |  |
|--------------------------|--|
| code                     | 8.247.0002                               |
| voltage                  | 220-240V ~ 50-60Hz                       |
| n°motors - power (max)   | 2 - 2000 (2400) W High efficiency motor. |
| column depression        | 22 kPa/2200 mmH <sub>2</sub> O           |
| air suction              | 130 l/s                                  |
| total volume/dust/liquid | 78 l./35 l./48 l.                        |
| dimension/weight         | 62x51x96 cm/21,5 kg                      |

## Windy 278 IF



### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



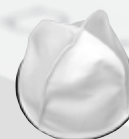
- 3.754.0084



- 3.754.0085



- 5.509.2176



- Power cable 7,5 m

### Equipped with:

- 2 high efficiency by pass motors.
- Suction system with by-pass cooling.
- Filter cleaning system.
- S. S. tank.
- Static electric shock inhibitor.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- Drain hose system.
- 7,5 m power cable.
- Traceless wheels.
- Accessories Ø 40.
- Handy accessory holder.

### Optional:

- code. 5.212.0022 Paper collector filter set - 10 pcs
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 Hepa filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

### Windy 278 IF

|                          |  |
|--------------------------|--|
| code                     | 8.247.0001                               |
| voltage                  | 220-240V ~ 50-60Hz                       |
| n°motors - power (max)   | 2 - 2000 (2400) W High efficiency motor. |
| column depression        | 22 kPa/2200 mmH <sub>2</sub> O           |
| air suction              | 130 l/s                                  |
| total volume/dust/liquid | 78 l./35 l./48 l.                        |
| dimension/weight         | 62x51x96 cm/23 kg                        |

### Windy 378 PF



#### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



- 3.754.0084



- 3.754.0085



- 5.509.2176



- Power cable 7,5 m

#### Equipped with:

- 3 high efficiency by pass motors.
- Suction system with by-pass cooling.
- Filter cleaning system.
- Plastic tank (PP).
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- Drain hose system.
- 7,5 m power cable.
- Traceless wheels.
- Accessories Ø 40.
- Handy accessory holder.

#### Optional:

- code. 5.212.0022 Paper collector filter set - 10 pcs
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 Hepa filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

| Windy 378 PF             |  |
|--------------------------|--|
| code                     | 8.256.0002                               |
| voltage                  | 220-240V ~ 50-60Hz                       |
| n°motors - power (max)   | 3 - 3000 (3600) W High efficiency motor. |
| column depression        | 22 kPa/2200 mmH <sub>2</sub> O           |
| air suction              | 195 l/s                                  |
| total volume/dust/liquid | 78 l./35 l./48 l.                        |
| dimension/weight         | 62x51x99 cm/23,5 kg                      |

## Windy 378 IR



### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



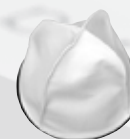
- 3.754.0084



- 3.754.0085



- 5.509.2176



- Power cable 7,5 m

### Equipped with:

- 3 high efficiency by pass motors.
- Suction system with by-pass cooling.
- Filter cleaning system.
- S. S. tank.
- Static electric shock inhibitor.
- Tilting tank.
- Fully removable tank.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 7,5 m power cable.
- Traceless wheels.
- Accessories Ø 40.
- Handy accessory holder.

### Optional:

- code. 5.212.0022 Paper collector filter set - 10 pcs
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 Hepa filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

### Windy 378 IR

|                          |  |
|--------------------------|--|
| code                     | 8.248.0001                               |
| voltage                  | 220-240V ~ 50-60Hz                       |
| n°motors - power (max)   | 3 - 3000 (3600) W High efficiency motor. |
| column depression        | 22 kPa/2200 mmH <sub>2</sub> O           |
| air suction              | 195 l/s                                  |
| total volume/dust/liquid | 78 l./35 l./48 l.                        |
| dimension/weight         | 62x51x99 cm/26 kg                        |

## Heavy duty range



The Professional range of Lavor vacuum cleaners provides the solution for every kind of heavy duty daily use. The models of the wet and dry series are equipped with 1 up to 3 double stage motor (1.2 to 3.6 kW), different tank capacities (50 or 78 l.), tilting or fixed tank and PP antishock or stainless steel tanks. Designed to be user friendly, they are equipped with ergonomic handle, big wheels and stable trolley offering the final answer to the needs of cleaning contractors, industries, workshops, car washing station etc. The accessories sets allowing all the different operation of wet and dry suction, are designed to be stressless for the end user (using longer extension pipes) and can easily fit and change quickly one to the other. The antishock feature has to be considered a big advantage when metal dust, flour and all the different types of dirt creating ESD electrostatic discharge are collected inside the tank. This feature avoids shocks to the end user, making usage easier.

Wide cloth filter bag (standard) grants good performances of the motor also when it is used for a long period; HEPA, cartridge, nylon, sponge and collector bag can be equipped easily (Optional).

The filter area is reachable easily and the wide float seat grants stability on the floor during filter cleaning session.

The ANTIFOAM device (optional) must be used in case of mixture chemical/water suction, avoiding the foam to reach motor.

**Zeus IF**



**Equipped with:**

- Silenced two stage motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Professional closing hooks.
- Static electric shock inhibitor.
- Drain hose system.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Traceless wheels.
- Accessories Ø 40.

**Standard equipment:**

- 5.209.0021 Hose 2,5 m 
- 6.205.0126 
- 3.754.0048 
- 3.754.0049 
- 3.754.0185 300 mm 
- 3.754.0169 
- 3.754.0170 
- 6.205.0011 
- 6.205.0008 
- Power cable 10 m

**Optional:**

- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.212.0094 Nylon filter
- code. 5.212.0160 Washable filter
- code. 5.212.0161 Cartridge filter
- code. 5.212.0162 HEPA filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                          | <b>Zeus IF</b>                   |
|--------------------------|----------------------------------|
| code                     | 8.215.0501                       |
| voltage                  | 220-240V ~ 50-60Hz               |
| n°motors - power (max)   | 1 - 1200 (1400) W                |
| column depression        | 21,6 kPa/2200 mmH <sub>2</sub> O |
| air suction              | 53 l/s                           |
| total volume/dust/liquid | 50 l./21 l./35 l.                |
| dimension/weight         | 62x51x85 cm / 16,5 kg            |

### Domus PR



#### Equipped with:

- 2 silenced two stage motor.
- Suction system with by-pass cooling.
- Plastic tank (PP).
- Professional closing hooks.
- Tilting tank.
- Fully removable tank.
- Static electric shock inhibitor.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Cable holder.
- Traceless wheels.
- Accessories Ø 40.

#### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



- 3.754.0084



- 3.754.0085



- 5.509.0039



- Power cable 10 m

#### Optional:

- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 HEPA filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                          | Domus PR                                   |
|--------------------------|--|
| code                     | 8.213.0509                                 |
| voltage                  | 220-240V ~ 50-60Hz                         |
| n°motors - power (max)   | 2 - 2000 (2400) W silenced two stage motor |
| column depression        | 22 kPa/2240 mmH <sub>2</sub> O             |
| air suction              | 108 l/s                                    |
| total volume/dust/liquid | 78 l./35 l./48 l.                          |
| dimension/weight         | 62x51x99 cm / 28,5 kg                      |



**Domus IF**



**Equipped with:**

- 2 silenced two stage motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Professional closing hooks.
- Static electric shock inhibitor.
- Drain hose system.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Traceless wheels.
- Accessories Ø 40.

**Standard equipment:**

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



- 3.754.0084



- 3.754.0085



- 5.509.0039



- Power cable 10 m

**Optional:**

- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 HEPA filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                          | Domus IF                                   |
|--------------------------|--|
| code                     | 8.216.0502                                 |
| voltage                  | 220-240V ~ 50-60Hz                         |
| n°motors - power (max)   | 2 - 2000 (2400) W silenced two stage motor |
| column depression        | 22 kPa/2240 mmH <sub>2</sub> O             |
| air suction              | 108 l/s                                    |
| total volume/dust/liquid | 78 l./35 l./48 l.                          |
| dimension/weight         | 62x51x85 cm / 28 kg                        |

### Domus IR



#### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



400 mm

- 3.754.0084



- 3.754.0085



- 5.509.0039



- Power cable 10 m

#### Equipped with:

- 2 silenced two stage motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Professional closing hooks.
- Static electric shock inhibitor.
- Tilting tank.
- Fully removable tank.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Cable holder.
- Traceless wheels.
- Accessories Ø 40.

#### Optional:

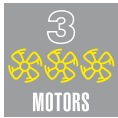
- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 HEPA filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

| Domus IR                 |  |
|--------------------------|--|
| code                     | 8.213.0501                                 |
| voltage                  | 220-240V ~ 50-60Hz                         |
| n°motors - power (max)   | 2 - 2000 (2400) W silenced two stage motor |
| column depression        | 22 kPa/2240 mmH <sub>2</sub> O             |
| air suction              | 108 l/s                                    |
| total volume/dust/liquid | 78 l./35 l./48 l.                          |
| dimension/weight         | 62x51x99 cm / 32 kg                        |

**Taurus PR**



**Standard equipment:**

• 5.209.0021 Hose 2,5 m



• 6.205.0126



• 3.754.0048



• 3.754.0049



• 3.754.0083



• 3.754.0084



• 3.754.0085



• 5.509.0039



• Power cable 10 m

**Equipped with:**

- 3 silenced two stage motor.
- Suction system with by-pass cooling.
- Plastic tank (PP).
- Professional closing hooks.
- Tilting tank.
- Fully removable tank.
- Static electric shock inhibitor.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Cable holder.
- Traceless wheels.
- Accessories Ø 40.

**Optional:**

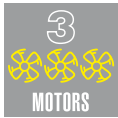
- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 HEPA filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                          | Taurus PR                                  |
|--------------------------|--|
| code                     | 8.212.0508                                 |
| voltage                  | 220-240V ~ 50-60Hz                         |
| n°motors - power (max)   | 3 - 3000 (3600) W silenced two stage motor |
| column depression        | 22 kPa/2240 mmH <sub>2</sub> O             |
| air suction              | 162 l/s                                    |
| total volume/dust/liquid | 78 l./35 l./48 l.                          |
| dimension/weight         | 62x51x99 cm / 29,5 kg                      |

### Taurus IR



#### Equipped with:

- 3 silenced two stage motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Professional closing hooks.
- Static electric shock inhibitor.
- Tilting tank.
- Fully removable tank.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Cable holder.
- Traceless wheels.
- Accessories Ø 40.

#### Standard equipment:

- 5.209.0021 Hose 2,5 m 
- 6.205.0126 
- 3.754.0048 
- 3.754.0049 
- 3.754.0083  400 mm
- 3.754.0084 
- 3.754.0085 
- 5.509.0039 
- Power cable 10 m

#### Optional:

- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 HEPA filter



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                          | Taurus IR                                  |
|--------------------------|--|
| code                     | 8.212.0501                                 |
| voltage                  | 220-240V ~ 50-60Hz                         |
| n°motors - power (max)   | 3 - 3000 (3600) W silenced two stage motor |
| column depression        | 22 kPa/2240 mmH <sub>2</sub> O             |
| air suction              | 162 l/s                                    |
| total volume/dust/liquid | 78 l./35 l./48 l.                          |
| dimension/weight         | 62x51x99 cm / 33 kg                        |

## Taurus IR 2 Way



• Hose connection for second operator



### Standard equipment:

• 2 x 5.209.0082  
Hose 5 m



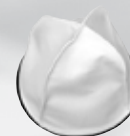
• 2 x 3.754.0048



• 2 x 3.754.0049



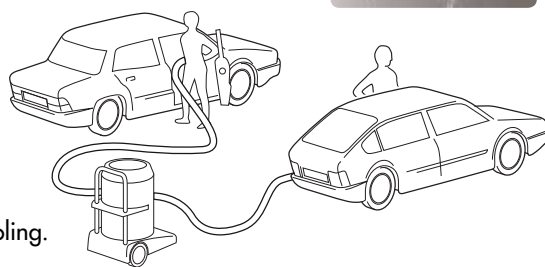
• 5.509.0039



• Power cable 10 m

### Equipped with:

- 3 silenced two stage motor.
- S. S. tank.
- Professional closing hooks.
- Static electric shock inhibitor.
- Suction system with by-pass cooling.
- Tilting tank.
- Fully removable tank.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Cable holder.
- Traceless wheels.
- Accessories Ø 40.



### Optional:

- code 6.205.0126 - Ø 40 chromium plated steel curve and extension pipe kit
- code 6.205.0121 - Ø 40 complete accessories kit (holder accessories, floor brush, wet tool, carpet tool)
- code. 5.212.0093 Cloth filter for fine dust.



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Taurus IR 2 Way

|                          |  |
|--------------------------|--|
| code                     | 8.212.0523                                 |
| voltage                  | 220-240V ~ 50-60Hz                         |
| n°motors - power (max)   | 3 - 3000 (3600) W silenced two stage motor |
| column depression        | 22 kPa/2240 mmH <sub>2</sub> O             |
| air suction              | 162 l/s                                    |
| total volume/dust/liquid | 78 l./35 l./48 l.                          |
| dimension/weight         | 62x51x99 cm / 33 kg                        |

### Injection extraction range



Lavor professional extraction/injection machines: **GBP 20 Pro, Jupiter, Apollo, Solaris, Costellation** and the innovative **Windy Foam** are the real solution to clean any type of textiles!

Machines equipped with 6,5 up to 78 liters tanks, 1 or 2 double stage motors, 1 or 2 detergent pumps to assure always the right flow of injected chemical.

Provided with a full range of accessories capable to suit each deep cleaning textile application: carpets, vehicle seats, sofas, tents, chairs, mats, etc... To be used in the **HO-RE-CA, Automotive** and **Industrial** cleaning, they will perfectly fit any requirements.

Windy IE Foam, a range of injection/extraction cleaning machines ideal for car cleaning, as they can be used with thick foam or liquid detergent.

Windy IE Foam is equipped with a connection for compressed air with pressure regulator and an external tank of 12 liters capacity, which allows detergent refilling without opening the machine.

Windy IE Foam Compressor is equipped with an air compressor unit and an external tank of 12 liters capacity, which allows detergent refilling without opening the machine.





## GBP 20 Pro

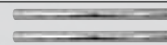


### Standard equipment:

• 6.205.203  
Hose 2 m



• 3.753.0009



• 5.209.0193



• 5.209.0187



• 3.754.0004



• 3.754.0015



• 3.754.0005



• 3.754.0189



• 3.754.0188



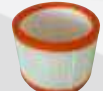
• 3.752.0038



• 3.752.0032



• 5.212.0020



• Power cable 7,5 m

### Equipped with:

- Silenced single stage motor.
- Suction system with by-pass cooling.
- 20 lt. plastic tank (PP)
- 2 lt. Solution tank
- Shock proof trolley.
- Liquid float valve.
- 7,5 m power cable.
- Washable filter
- Paper collector filter
- Pressure 7 bar max
- Accessories Ø 35.

### Optional:

#### Hygienic PERFUME OPTIONAL



Code 0.010.0035  
100 ml x 4 pcs

- code 3.697.0072 LC-PREFOAM (no foaming system)

| GBP 20 Pro             |                                |
|------------------------|--------------------------------|
| code                   | 8.204.0066                     |
| voltage                | 230V ~ 50Hz                    |
| n°motors - power (max) | 1 - 1200 (1400) W              |
| column depression      | 27 kPa/2700 mmH <sub>2</sub> O |
| air suction            | 70 l/s                         |
| total volume           | 20 l.                          |
| dimension/weight       | 40x39x64 cm/9,5 kg             |

### Jupiter



#### Equipped with:

- Spray-extraction cleaner with a separate anti-foaming tank.
- Designed for rug, carpet, and upholstery cleaning in offices, clinics, cinemas and households, as well as car upholstery.
- Thorough cleaning through the 4 bar spray pressure and 230 mbar suction power.
- Spray and extraction functions are separately operable.
- Separate fresh and wastewater tanks, each containing 6,5 l. Separate container for anti-foaming agent.
- Clear, ergonomic nozzles.
- Long stainless steel vacuum tube for convenient, effortless work.
- Rubber-coated castor wheels and large back wheels.

#### Standard equipment:

- 0.965.0003 Hose 2,5 m



- 2 x 0.965.0004



- 0.965.0001



- 0.965.0002



- Power cable 7,5 m



|                          | Jupiter                        |
|--------------------------|--------------------------------|
| code                     | 0.065.0001                     |
| voltage                  | 230V ~ 50Hz                    |
| n°motors - power (max)   | 1 - 1100 W                     |
| column depression        | 23 kPa/2300 mmH <sub>2</sub> O |
| air suction              | 50 l/s                         |
| total volume/dust/liquid | 6,5 l./5 l./6 l.               |
| dimension/weight         | 55 x 35 x 63,5 cm/13 kg        |



## Apollo IF



### Standard equipment:

- 6.205.0129 Hose 2,5 m



- 6.205.0132



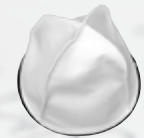
- 5.209.0143



- 6.205.0011



- 6.205.0008



- Power cable 10 m

### Equipped with:

- Silenced two stage motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Detergent pump (1x26W – 1,2 l/m – 2,5bar)
- Professional closing hooks.
- Static electric shock inhibitor.
- Drain hose system.
- 11 l. detergent tank.
- Shock proof trolley. Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Traceless wheels.
- Accessories Ø 40.

### Optional:

- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.212.0094 Nylon filter
- code. 5.212.0160 Washable filter
- code. 5.212.0161 Cartridge filter
- code. 5.212.0162 HEPA filter

|                          | Apollo IF                        |
|--------------------------|----------------------------------|
| code                     | 8.220.0501                       |
| voltage                  | 220-240V ~ 50-60Hz               |
| n°motors - power (max)   | 1 - 1200 (1400) W                |
| column depression        | 21,6 kPa/2200 mmH <sub>2</sub> O |
| air suction              | 53 l/s                           |
| total volume/dust/liquid | 50 l./21 l./35 l.                |
| dimension/weight         | 62x51x85 cm / 22 kg              |



### Solaris IF



#### Standard equipment:

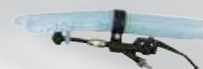
- 6.205.0129 Hose 2,5 m



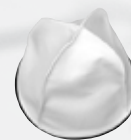
- 6.205.0132



- 5.209.0143



- 5.509.0039



- Power cable 10 m

#### Equipped with:

- 2 silenced two stage motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Detergent pump (2x48W – 1 l/m – 7 bar).
- Professional closing hooks.
- Static electric shock inhibitor.
- Drain hose system.
- 25 l. detergent tank.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Traceless wheels.
- Accessories Ø 40.

#### Optional:

- code. 5.212.0022 Paper collector filter set (10 pcs)
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0021 Washable filter
- code. 5.212.0034 HEPA filter

|                          | Solaris IF                                 |
|--------------------------|--|
| code                     | 8.221.0508                                 |
| voltage                  | 230V ~ 50Hz                                |
| n°motors - power (max)   | 2 - 2200 (2400) W silenced two stage motor |
| column depression        | 22 kPa/2240 mmH <sub>2</sub> O             |
| air suction              | 108 l/s                                    |
| total volume/dust/liquid | 78 l./35 l./48 l.                          |
| dimension/weight         | 62x51x96 cm / 33 kg                        |

## Costellation IR



### Standard equipment:

- 6.205.0129 Hose 2,5 m



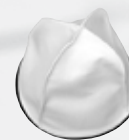
- 6.205.0132



- 5.209.0143



- 5.509.0039



- Power cable 10 m

### Equipped with:

- 2 silenced two stage motor.
- Suction system with by-pass cooling.
- S. S. tank.
- Detergent pump (2x48W – 0,7-1,2 l/m – 5 bar).
- Professional closing hooks.
- Static electric shock inhibitor.
- Tilting tank.
- Fully removable tank.
- 11 l. detergent tank.
- Shock proof trolley.
- Liquid float valve.
- Cloth filter.
- 10 m power cable.
- Easy standing head (during filter cleaning).
- Traceless wheels.
- Accessories Ø 40.

### Optional:

- code. 5.512.0021 Washable filter
- code. 5.509.1405 Cloth filter for fine dust
- code. 5.212.0093 Nylon filter
- code. 5.212.0034 HEPA filter

#### Costellation IR

|                          |  |
|--------------------------|--|
| code                     | 8.221.0518                                 |
| voltage                  | 230V ~ 50Hz                                |
| n°motors - power (max)   | 2 - 2200 (2400) W silenced two stage motor |
| column depression        | 22 kPa/2240 mmH <sub>2</sub> O             |
| air suction              | 108 l/s                                    |
| total volume/dust/liquid | 78 l./35 l./48 l.                          |
| dimension/weight         | 62x51x99 cm / 35,5 kg                      |

### Windy IE Foam



#### Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0197



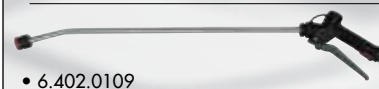
- 5.209.0205



- 6.402.0108



- 6.402.0109



- 2 x 5.211.0102



- 5.212.0141



- 3.754.0048



- 3.697.0072 LC prefoam

#### Equipped with:

- 2 high efficiency by-pass motors
- Suction system with by-pass cooling
- Stainless steel tank
- Detergent pump (48W – 1 l/m – 15 bar)
- Steel closing hooks
- Static electric shock inhibitor
- Fully removable tank
- 12 l. detergent tank
- Shock proof trolley • Safety floating
- Washable cartridge filter
- 7,5 m power cable
- Traceless wheels
- Accessories Ø 40
- Equipped with connection for compressed air and pressure gauge with pressure adjuster for foam cleaning.



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Optional:

- 5.212.0022 - Paper collector filter set (10 pcs)
- 5.209.0177 - Cloth filter for fine dust
- 5.212.0093 - Nylon filter
- 0.110.0020 - Antifoam device
- 3.697.0036 - Anti-foaming for recovery tank
- 3.697.0058 - (4x5 Kg) Acid-based det. for toilets
- 3.697.0057 - (4x5 Kg) Alkaline-based det. alimentary environments
- 3.697.0056 - (4x5 Kg) Det. for fabrics and carpeting

| Windy IE Foam            |   |
|--------------------------|---|
| code                     | 8.239.0017                              |
| voltage                  | 220-240V ~ 50-60Hz                      |
| n°motors - power (max)   | 2 - 2000 (2400) W high efficiency motor |
| column depression        | 22 kPa/2200 mmH <sub>2</sub> O          |
| air suction              | 130 l/s                                 |
| total volume/dust/liquid | 65 l./30 l./40 l.                       |
| dimension/weight         | 44x46x96 cm / 24 kg                     |



Windy IE Foam is an injection/extraction cleaning machine ideal for car cleaning, as it can be used with thick foam or liquid detergent. Windy IE Foam is equipped with a connection for compressed air with pressure regulator and an external tank of 12 liters capacity, which allows the detergent refilling without opening the machine.

**A compressor with the following technical data is required:  
Pressure 6 bar, Delivery rate 250 lt/min.**

Thanks to the special brush the foam can be spread quickly and easily on the car seats or mats and can be removed after few seconds with the transparent nozzle. Being equipped with two high depression vacuum motors, 90% of the foam is recovered with the great advantage of a very fast drying (20 min.) and a better cleaning performance.



Windy IE Foam is ideal for the pre-washing of the car body, rims and engine. Using the lance with the 7 (2 x 3,5) meters hose can be produced a thick foam that will stay on the dirty components, giving more effectiveness to the detergent. Windy IE Foam is also an excellent two motors wet & dry vacuum cleaner with 65 liters tank capacity.

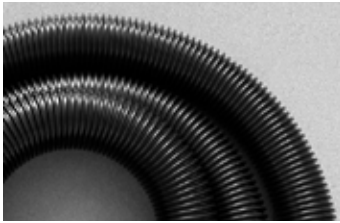
### Fields of applications

Washing of: car body and interiors, carpets, sofas, restrooms, kitchens and wherever is necessary to wash and sanitize.

### Users:

Car dealers, car washers, garages, car body shops, contractor cleaners and any other user which is provided with a source of compressed air; in the absence of a compressed air system, Windy IE Foam can also be used in combination with a small 24 liters compressor.

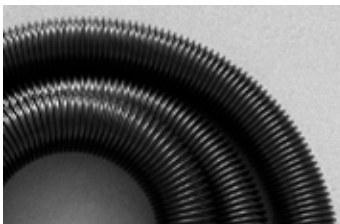




### Flexible hose Ø 35

| Code       | Description                          | m  | Ø  |
|------------|--------------------------------------|----|----|
| 3.753.0063 | Roll of flexible hose without swivel | 30 | 35 |

| Code       | Description                      | Ø  |
|------------|----------------------------------|----|
| 3.752.0118 | Sleeve tank side                 | 35 |
| 3.752.0028 | Swivel straight accessories side | 35 |
| 3.753.0077 | Swivel curved accessories side   | 35 |



### Flexible hose Ø 40

| Code       | Description                          | m  | Ø  |
|------------|--------------------------------------|----|----|
| 3.753.0038 | Roll of flexible hose without swivel | 30 | 40 |

| Code       | Description               | Ø  |
|------------|---------------------------|----|
| 3.754.0047 | Sleeve tank side          | 40 |
| 3.754.0046 | Straight accessories side | 40 |



### Complete flexible hose Ø 40



| Code       | Description                            | m  | Ø  |
|------------|--|----|----|
| 5.209.0082 | Flexible hose                          | 5  | 40 |
| 6.205.0130 | Flexible hose for Injection extraction | 5  | 40 |
| 6.205.0131 | Flexible hose for Injection extraction | 10 | 40 |



**PVC spacer**

Code 0.110.0021



Ø 40 Spacer for plastic bag 58 l. (for Domus/Taurus/Solaris/Costellation models)  
This accessory is necessary when using collector bag: the use of collector bag is not possible without PVC spacer.  
The use of the collector bag grants easy filter cleaning and its quick replacement whenever necessary, saving time also during the operation of tank cleaning.



Ø 40 Gangway tool (only for Domus PR/Domus IR/Taurus PR/Taurus IR/Costellation IR models)

A set made of special accessory with front and back squeegee + a flex connection hose in order to vacuum easily and quickly water and liquid from the floor.

0.911.0210 front squeegee strip with hole  
0.911.0211 rear squeegee strip without hole

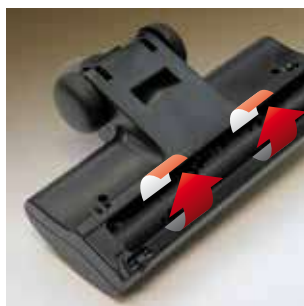
**Gangway tool (only for liquid suction)**

Code 0.110.0062



**Turbo brush Ø 35**

Code 3.754.0081



**Antifoam device**

Code 0.110.0020



This device avoids the forming of foam that may affect the operation of the float.  
(For Zeus, Domus, Taurus, Apollo, Solaris, Costellation models)

### Why wider filtering area is not making automatically a better machine?

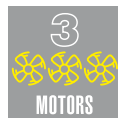
In the industrial sector, productivity, resistance and breakeven expectations are growing. The ideal vacuum would be then a machine filtering any kind of dust (also the thinnest) being able to work continuously without the need to clean the filter and without any maintenance. It is more important to get close effectively to this target rather than the way we can reach this. This is the reason why is useless having a big filtering area if the filter is still clogging up fast and more often I need to stop working to clean it. In our machines we developed the best prevention of the problem (avoiding dust is reaching quickly the filter) rather than trying a solution afterwards (since the filter is clogging up quickly, extending the filtering area it is supposed to extend the effectiveness). It doesn't matter how wide is the filter, but for how long can work the machine without the need to clean the filter...

And with this issue, we are the best.

### When either more airflow or more depressure is necessary?

The airflow helps the dirt transport trough long pipes. Longer is the hose, better is bigger airflow; still with light dust it is better having lower depressure: the inlet air speed will be lower, the harder the dirt is getting in touch with the filter.

When residuals have high specific weight, depressure is more important than airflow to win gravity force of dirt attached to the surface.



#### Number of motors:

It explains how many motors there are in the vacuum cleaner.

Ignition is independent in order to increase progressively the performances. The working system (whenever it is more than one) is in parallel, so the air suction increases and the depressure is steady whenever the motors are progressively switched on.



**Cloth filter** The cloth consistency and its shape allow a simple cleaning phase and the re-usage of the filter. It can be used only for vacuuming dry waste; if combined with nylon filter it is possible to work for a longer period of time.



#### Pneumatic filter shaker (international copyright)

Through the selector, the airflow is inverted to feed an internal pneumatic hammer that shakes and blows the filter, cleaning it again completely. It is not necessary to touch the filter or worst to clean it outside the machine spreading again dust everywhere.



#### Antistatic machines and accessories

Using specific conductive materials and engineering, there's the prevention of ignition sparks from the machine side, up to the end of any tool available for this machine range.



**Nomenclature**

*S = Universal (motor)*  
*D = Induction (motor)*  
*M = Single phase (motor)*  
*T = Tri-Phase (motor)*  
*V = Varnishing (tank)*  
*X = S. S. (tank)*

Liters (tank) x 100 = 2400 W  
**SMX 77 2-24 S** *Filter shaker*  
 n° Motor



SMX77 2-24  
SMX77 3-36



DMX80 1-22 S  
DTX 80 1-30 S

| Code       | Model         | Page | Voltage              | Abs. Power | Column depression | Suction air | Tank capacity | Noise level | Filtering surface    | Packaging    | Packaging weight | Packaging weight | Pieces for pallet |
|------------|---------------|------|----------------------|------------|-------------------|-------------|---------------|-------------|----------------------|--------------|------------------|------------------|-------------------|
|            |               |      | V-Hz (Ph)            | W          | kPa               | l/s         | l             | dB(A)       | cm <sup>2</sup>      | cm L x l x H | kg               | lbs              | n°                |
| 0.056.0002 | SMX77 2-24    | 114  | 230 V-50-60 Hz (1Ph) | 2000       | 24 kPa            | 108 l/s     | 77 l.         | 74 dB(A)    | 4300 cm <sup>2</sup> | 70x91x141    | 66               | 145,5            | 1                 |
| 0.056.0004 | SMX77 3-36    | 114  | 230 V-50-60 Hz (1Ph) | 3000       | 24 kPa            | 162 l/s     | 77 l.         | 76 dB(A)    | 4300 cm <sup>2</sup> | 70x91x141    | 67               | 147,7            | 1                 |
| 0.045.0031 | DMX 80 1-22 S | 115  | 230 V-50 Hz (1Ph)    | 2200       | 32 kPa            | 97 l/s      | 80 l.         | <74 dB(A)   | 4300 cm <sup>2</sup> | 50x50x140    | 80               | 176              | 1                 |
| 0.045.0032 | DTX 80 1-30 S | 115  | 400 V-50 Hz (3Ph)    | 3000       | 32 kPa            | 97 l/s      | 80 l.         | <74 dB(A)   | 4300 cm <sup>2</sup> | 50x50x140    | 85               | 187              | 1                 |

### SMX 77



Models: 2-24



Models: 3-36



#### Equipped with:

- 3 silenced two stage motor (SMX 3-36 model).
- 2 silenced two stage motor (SMX 2-24 model).
- Suction system with by-pass cooling.
- S. S. tank.
- Manual filter shaker.
- Professional closing hooks.
- Static electric shock inhibitor.
- Liquid float valve.
- Cloth filter. • Filters (optional) against thin dust or Hepa.
- Though integrated accessory storage facility.
- Non-overturning steel structure.
- Available with body and cover entirely made of S. S. AISI 304.
- Traceless wheels.
- Accessories Ø 50.

#### Standard equipment:

- Reduction Ø 70 - Ø 50 mm



- Cloth filter



#### Optional:

- Heat resistant over filter  
code 0.156.0003



- Oven kit Ø 40  
code 0.156.0005



|   | SMX77 2-24                 | SMX77 3-36                 |
|---|----------------------------|----------------------------|
| code                                      | 0.056.0002                 | 0.056.0004                 |
| abs. power W                              | 2000                       | 3000                       |
| n°/type motor                             | 2x two stages universal    | 3x two stages universal    |
| column depression                         | 23,6 kPa (2400 mmH2O)      | 23,6 kPa (2400 mmH2O)      |
| suction air                               | 108 l/s                    | 162 l/s                    |
| tank volume/dust capacity/liquid capacity | 77 l/45 l/50 l             | 77 l/45 l/50 l             |
| noise level                               | 74 dB(A)                   | 76 dB(A)                   |
| voltage                                   | 230 V~50-60 Hz (1Ph)       | 230 V~50-60 Hz (1Ph)       |
| filtering surface                         | 4300 cm <sup>2</sup>       | 4300 cm <sup>2</sup>       |
| filtering capacity                        | 5 µm                       | 5 µm                       |
| cable length                              | 7,5 m                      | 7,5 m                      |
| dimensions/weight                         | 70x91x141cm/66Kg-145.2 lbs | 70x91x141cm/67Kg-147.4 lbs |

**DMX80  
DTX80**



**Equipped with:**

- IP 65 silenced turbine motor.
- Liquid float valve.
- S. S. tank.
- Manual filter shaker.
- Professional closing hooks.
- Static electric shock inhibitor.
- Non-overturning steel structure.
- Drain hose system.
- Epoxy varnishing.
- Steering wheels with brake.
- Air intake safety valves for turbine motor protection.

**Standard equipment:**

- Flexible hose ø 40 - 3 m  
code 5.209.0159



- Flat lance ø 40  
code 3.754.0048



- Cloth filter  
code 5.509.0039



**Optional:**

- Washable filter  
5.212.0021



- Kit 6.205.0115

Steel curve + pipe  
Ø 40



Round brush Ø 40



Accessories holder Ø 40



Floor Brush



Wet tool



Carpet tool














|   | DMX80 1-22 S              | DTX80 1-30 S              |
|---|---------------------------|---------------------------|
| code                                      | 0.045.0031                | 0.045.0032                |
| abs. power W                              | 2200                      | 3000                      |
| n°/type motor                             | 1x induction              | 1x induction              |
| column depression                         | 21 kPa (2100 mmH2O)       | 32 kPa (3200 mmH2O)       |
| suction air                               | 97 l/s                    | 97 l/s                    |
| tank volume/dust capacity/liquid capacity | 80/36/49 lt               | 80/36/49 lt               |
| noise level                               | 74 dB(A)                  | 74 dB(A)                  |
| voltage                                   | 230 V~50 Hz (1Ph)         | 400 V~50 Hz (3Ph)         |
| filtering surface                         | 4300 cm <sup>2</sup>      | 4300 cm <sup>2</sup>      |
| filtering capacity                        | 5 µm                      | 5 µm                      |
| cable length                              | 10 m                      | 10 m                      |
| dimensions/weight                         | 50x50x140cm/80Kg -176 lbs | 50x50x140cm/85Kg -187 lbs |

### Optional accessories

|   |            |   | SMX77 2-4 | SMX77 3-6 |
|---|------------|---|-----------|-----------|
|    | 0.144.0047 | Rubber sleeve for hose Ø 38 (2 necessary for hose 3.753.0050)   | ○         | ○         |
|   | 0.144.0001 | Antistatic rubber sleeve for hose Ø 50 (2 necessary for hose 7.753.0053)                                      | ○         | ○         |
|   | 0.144.0002 | Rubber sleeve for hose Ø 50 (2 necessary for hose 7.753.0051 o 7.753.0054)                                    | ○         | ○         |
|    | 3.753.0050 | EVA CONDUCTIVE Ø 38 - min 5 mt or multiple, max 30 mt. (add also 2 x 0.144.0047, 2 x 3.099.1077 + 0.144.0011) | ○         | ○         |
|   | 3.753.0051 | EVA CONDUCTIVE Ø 50 - min 5 mt or multiple, max 30 mt. (add also 2 x 0.144.0002, 2 x 3.099.1077 + 0.144.0011) | ○         | ○         |
|    | 3.753.0053 | PUR ANTISTATIC Ø 50 - min 5 mt or multiple, max 30 mt. (add also 2 x 0.144.0001, 2 x 3.099.1077 + 0.144.0011) | ○         | ○         |
|    | 3.753.0054 | PUR OILPROOF Ø 50 - min 5 mt or multiple, max 30 mt. (add also 2 x 0.144.0002, 2 x 3.099.1077 + 0.144.0011)   | ○         | ○         |
|    | 3.099.1077 | Steel clamps for rubber sleeve Ø 50/Ø 38 (2 pcs for each hose)  | ○         | ○         |
|   | 0.144.0011 | Steel connection with button Ø 50/Ø 38 - accessory side   | ○         | ○         |
|  | 0.144.0012 | Ø 50 - steel double curve with joint coupling   | ○         | ○         |
|  | 0.144.0013 | Ø 50 - steel extension with joint coupling  | ○         | ○         |
|  | 0.144.0014 | Ø 50 - steel flat lance mm 500  | ○         | ○         |
|  | 0.144.0021 | Ø 50 - antistatic rubber conic bend lance   | ○         | ○         |
|  | 0.144.0022 | Ø 50 - antistatic rubber conic lance  | ○         | ○         |
|  | 0.144.0015 | Ø 50 - antistatic rubber round lance  | ○         | ○         |
|  | 0.144.0019 | Ø 50 - antistatic rubber suction lance  | ○         | ○         |
|  | 0.144.0026 | Ø 50 - stainless steel accessory for dust suction   | ○         | ○         |
|  | 0.144.0027 | Ø 50 - stainless steel accessory for wet suction  | ○         | ○         |
|  | 0.144.0017 | Ø 50 - PVC flat lance   | ○         | ○         |
|  | 0.144.0018 | Ø 50 - PVC round brush  | ○         | ○         |

○ = optional

## Optional accessories

|   |            |  | DWA80 1-22 | DWA80 1-30 |
|---|------------|--|------------|------------|
|    | 5.209.0021 | Flexible hose Ø 40 mm - 2,5 m                                  | ○          | ○          |
|   | 5.209.0127 | Flexible hose Ø 40 mm - 4,0 m                                  | ○          | ○          |
|   | 5.209.0082 | Flexible hose Ø 40 mm - 5,0 m                                  | ○          | ○          |
|   |            |  |            |            |
|    | 6.205.0126 | KIT chromium plated pipe + curved chromium plated pipe Ø 40 mm | ○          | ○          |
|   |            |  |            |            |
|    | 3.754.0048 | Flat lance 250 mm - Ø 40 mm                                    | ○          | ○          |
|   |            |  |            |            |
|    | 3.754.0049 | Round brush - Ø 40 mm  | ○          | ○          |
|   |            |  |            |            |
|   | 3.754.0083 | Multipurpose accessories Ø 40 mm - 400 mm                      | ○          | ○          |
|   | 3.754.0185 | Multipurpose accessories Ø 40 mm - 300 mm                      | ○          | ○          |
|   |            |  |            |            |
|  | 3.754.0084 | Bristle accessory for dry suction (for floors) 400 mm          | ○          | ○          |
|   | 3.754.0169 | Bristle accessory for dry suction (for floors) 300 mm          | ○          | ○          |
|   |            |  |            |            |
|  | 3.754.0085 | Accessory for wet suction 400 mm                               | ○          | ○          |
|   | 3.754.0170 | Accessory for wet suction 300 mm                               | ○          | ○          |
|   |            |  |            |            |
|  | 3.754.0086 | Accessory for carpet 400 mm                                    | ○          | ○          |
|   | 3.754.0171 | Accessory for carpet 300 mm                                    | ○          | ○          |
|   |            |  |            |            |
|  | 3.754.0046 | swivel straight sleeve Ø40 mm (accessory side)                 | ○          | ○          |
|   |            |  |            |            |
|  | 3.754.0047 | Straight sleeve Ø40 mm (tank side)                             | ○          | ○          |
|   |            |  |            |            |
|  | 3.753.0038 | Flexible hose Ø40 mm - 30 m                                    | ○          | ○          |
|   |            |  |            |            |
|   |            |  |            |            |

○ = optional

### Which are key components in a single disc machine?

The procedure to choose the right product for specific application must take into consideration of: the weight (that is the pressure over the brush), the surface to work, the RPM / type of construction of the motor and the transmission type.

Generally speaking, the lower is the rotation speed, the most effective is the pressure over the brush and deeper is dirt removal. With the increasing of rotation speed, lower is the effect of the pressure over the floor.

Different accessories combinations, rotation speed and motor power can provide the solution for any application: from dewaxing or deep scrub, up to polishing or buffing; from the crystallization up to spray cleaning; also carpet cleaning or sanding. Please see application chapter on the next pages.



### The power is nothing without control....

Together with its construction simplicity there are the worst danger for the operator who has to control the machine for long working sessions.

Only the perfect components and weights distribution on the machine allows a perfect balanced and ergonomic working posture, without any vibration and any strange effort to keep it in place.

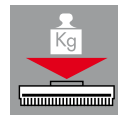
A cheap construction (less strength) not considering the perfect ergonomic for the user, further to the waste of money (less productivity), it's a serious danger for the health!



• **Brush speed:**  
Means Rotation Per Minute of the brush.



• **Transmission: helical gear system:**  
Up to 400 RPM the reduction and transmission system is made with Transmission helical gear system. Grants continuous power, long life and noiselessness of the machine.



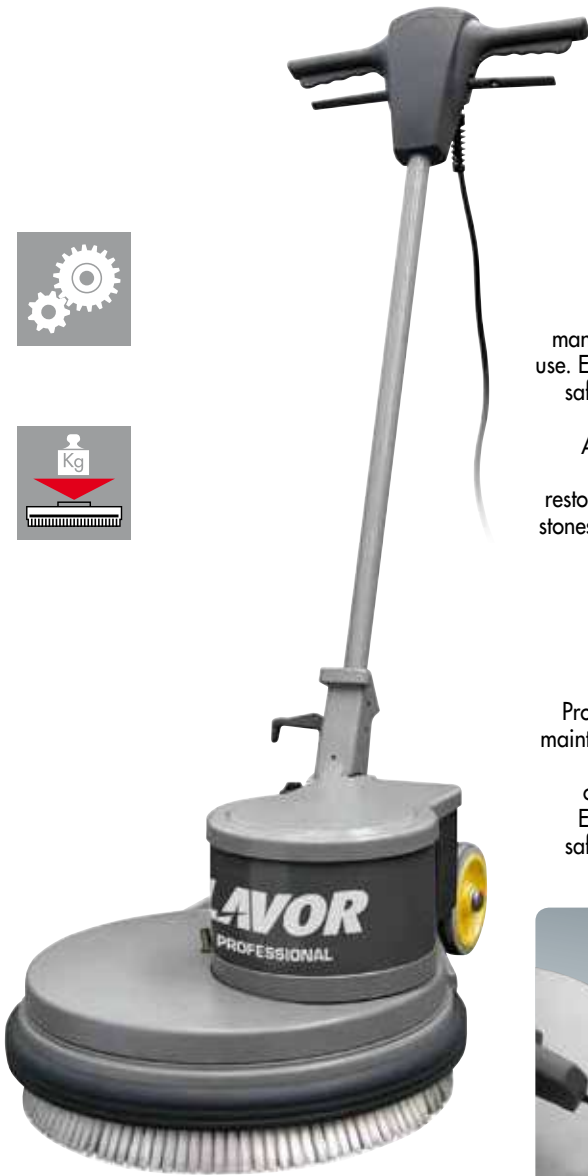
• **Constant brush pressure:**  
The pressure of brushes on the floor is made by the heavy brush plate that follows irregularity on the floor and gives always the top pressure without any adjustment still with shorter bristles.

### How much power is necessary?

There is not a set rule, if not the common sense: higher is the friction over the floor (a combination of type of working, type of surface and type of accessory used), the higher will be the power request to the motor. So more powerful is the motor, the harder the job being able to be done.

| Application               | Page | Code       | Ø brush   | Stripping synthetic floor (PVC) | Stripping cork present floor (linoleum) | Wet scrubbing/basic cleaning of stones, tiles and lino (sensitive floors) | Wet scrubbing/basic cleaning of synthetic or non sensitive floors pvc | Crystallizing | Carpet shampooing | Sanding wood | Sanding cement | Spray polishing and buffing |
|---------------------------|------|------------|-----------|---------------------------------|---|---|---|---------------|-------------------|--------------|----------------|-----------------------------|
| <b>SDM-R 45 G 16-130</b>  | 119  | 0.055.0302 | 430 - 17" | •                               | •                                       | •   | •   | •             | •                 | •            |                |                             |
| <b>SDM-R 45 G 16-160</b>  | 119  | 0.055.0303 | 430 - 17" | •                               | •                                       | •   | •   | •             | •                 |              | •              |                             |
| <b>SDM-R 45 G 16-180</b>  | 119  | 0.055.0304 | 430 - 17" | •                               | •                                       | •   | •   | •             | •                 |              |                |                             |
| <b>SDM-R 45 G 40-160</b>  | 119  | 0.055.0307 | 430 - 17" |                                 |   |   |   |               |                   |              |                | •                           |
| <b>SDM-R 53 G 150-130</b> | 120  | 0.055.0306 | 510 - 20" |                                 |   |   |   |               |                   |              |                | •                           |

**SDM-R 45 G**



Scrubbers

• **SDM-R 45 G:**

Complete range of single disc machines professional, sturdy, manageable, practical and simple to use. Ergonomic handle with integrated safety controls. Strong handle joint. Powerful and noiseless motor. Adapted in order to satisfy all the cleaning requirements, marble restoration and treatment and natural stones, woods and parquet, moquette, dewaxing, hard scrubbing.

Polishers

• **SDM-R 45G 40-160:**

Professional single disc machine for maintenance cleaning or for polishing whichever type of natural floor or treating with metalized waxes. Ergonomic handle with integrated safety controls. Strong handle joint. Powerful and noiseless motor



165 

400 

Model  
SDM -R 45G 40-160

**Optional:**

- Code 0.955.0001K  
11 l detergent tank (only for low speed models)



Accessories and brushes are not included. For available accessories refer to accessories pages.

|                        | SDM-R 45G 16-130       | SDM-R 45G 16-160       | SDM-R 45G 16-180       | SDM-R 45G 40-160       |
|------------------------|------------------------|------------------------|------------------------|------------------------|
| code                   | 0.055.0302             | 0.055.0303             | 0.055.0304             | 0.055.0307             |
| type                   | low speed              | low speed              | low speed              | medium speed           |
| brush speed            | 165 RPM                | 165 RPM                | 165 RPM                | 400 RPM                |
| scrubbing width        | 430 mm                 | 430 mm                 | 430 mm                 | 430 mm                 |
| voltage                | 230V / 50HZ            | 230V / 50HZ            | 230V / 50HZ            | 230V / 50HZ            |
| abs. power             | 1300 W                 | 1600 W                 | 1800 W                 | 1600 W                 |
| transmission           | helical gear system    |                        |                        |                        |
| brush contact pressure | 40,8 g/cm <sup>2</sup> | 41,3 g/cm <sup>2</sup> | 44,3 g/cm <sup>2</sup> | 34,9 g/cm <sup>2</sup> |
| noise level            | 60 dB(A)               | 60 dB(A)               | 60 dB(A)               | 60 dB(A)               |
| cable length           | 12 m                   | 12 m                   | 12 m                   | 12 m                   |
| body height            | 280 mm                 | 280 mm                 | 280 mm                 | 280 mm                 |
| dimensions / weight    | 54,2x42,5x120 cm/35 Kg | 54,2x42,5x120 cm/41 Kg | 54,2x42,5x120 cm/52 Kg | 62,5x50,5x120 cm/45 Kg |

### SDM-R 53 G



**HIGH SPEED**



**1500** 

Scrubbers

• **SDM-R 53 G:**

Professional ultra-highspeed and high efficiency single disc machine ideal for polishing whichever type of natural or treated with metalized waxes floors (brush not included).

Ergonomic handle with integrated controls and sturdy joint. Powerful and quiet motor. Vacuum system. Including a paper collector bag (5 pcs set optional, code 0.955.0300K).

Flexible disc holder counterbalancing eventual unevenness

**Optional:**

- 0.955.0300K  
Paper collector bag (5 pcs).
- 0.955.0299K  
Abrasive disc.

**SDM-R 53G 150-130**

|                        |                      |
|------------------------|----------------------|
| code                   | 0.055.0306           |
| type                   | High speed           |
| brush speed            | 1500 RPM             |
| scrubbing width        | 510 mm               |
| voltage                | 230V/50HZ            |
| abs. power             | 1300 W               |
| transmission           | Neither belt system  |
| brush contact pressure | 46 g/cm <sup>2</sup> |
| noise level            | 56 dB(A)             |
| cable length           | 12 m                 |
| body height            | 280 mm               |
| dimensions / weight    | - cm/48,8 Kg         |



## Accessories

| Description   | Code        | Models            | Stripping synthetic floor (PVC) | Stripping cork present floor (linoleum) | Wet scrubbing/basic cleaning of stones, tiles and lino (sensitive floors) | Wet scrubbing/basic cleaning of synthetic or non sensitive floors pvc | Crystallizing | Carpet shampooing | Sanding wood | Sanding cement | Spray cleaning | Spray polishing and buffing |
|---|-------------|-------------------|---------------------------------|---|---|---|---------------|-------------------|--------------|----------------|----------------|-----------------------------|
| <b>Brushes (*)</b>  |             |                   |                                 |   |   |   |               |                   |              |                |                |                             |
|  Carpet brush              | 0.955.0014  | SDM-R 45G         |                                 |   |   |   |               | x                 |              |                |                |                             |
|  Scrubbing brush PP 0,6 mm | 0.955.0007  | SDM-R 45G         |                                 | x                                       | x   |   |               |                   |              |                |                |                             |
|  Tynex brush               | 0.955.0004  | SDM-R 45G         | x                               |   |   | x   |               |                   |              |                |                |                             |
| <b>Pad Holder</b>   |             |                   |                                 |   |   |   |               |                   |              |                |                |                             |
|  EWU pad holder           | 0.955.0016  | SDM-R 45G         | x                               | x                                       | x   | x   | x             |                   |              | x              | x              |                             |
|  EWU pad holder          | 0.955.0017  | SDM-R 45G 40-160  |                                 |   |   |   |               |                   |              |                | x              | x                           |
|  Abrasive Disc Holder    | 0.955.0022  | SDM-R 45G         |                                 |   |   |   |               |                   | x            | x              |                |                             |
|  Abrasive Disc Holder    | 0.955.0299K | SDM-R 53G         |                                 |   |   |   |               |                   |              |                |                | x                           |
| <b>Special Disc</b>   |             |                   |                                 |   |   |   |               |                   |              |                |                |                             |
|  Carborandum disc        | 0.955.0027  | SDM-R 45G         |                                 |   |   |   |               |                   |              | x              |                |                             |
| <b>Pads</b>   |             |                   |                                 |   |   |   |               |                   |              |                |                |                             |
|  Pad micro fiber 5 pcs   | 6.508.0116  | SDM-R 45G         |                                 |   |   |   |               | x                 |              |                |                |                             |
|  Pad beige 5 pcs         | 6.508.0032  | SDM-R 45 G 40-160 |                                 |   |   |   |               |                   |              |                |                | x                           |
|  Pad red 5 pcs           | 6.508.0118  | SDM-R 45G         |                                 |   | x   |   |               |                   |              |                | x              |                             |
|  Pad green 5 pcs         | 6.508.0039  | SDM-R 45G         |                                 | x                                       |   | x   |               |                   |              |                |                |                             |
|  Pad black 5 pcs         | 6.508.0046  | SDM-R 45G         | x                               |   |   |   |               |                   |              |                |                |                             |
|  Pad silver Inox 5 pcs   | 6.508.0121  | SDM-R 45G         |                                 |   |   |   | x             |                   |              |                |                |                             |
|  Emery paper GR24 disc   | 0.955.0023  | SDM-R 45G         |                                 |   |   |   |               |                   | x            |                |                |                             |
|  Emery paper GR60 disc   | 0.955.0024  | SDM-R 45G         |                                 |   |   |   |               |                   | x            |                |                |                             |
|  Vidia disc GR24         | 0.955.0026  | SDM-R 45G         |                                 |   |   |   |               |                   |              | x              |                |                             |
|  Vidia disc GR36         | 0.955.0025  | SDM-R 45G         |                                 |   |   |   |               |                   |              | x              |                |                             |

X = suitable - (\*): Brushes code 0.955.0014, 0.955.0007 and 0.955.0004 must not be used with medium speed model SDM-R 45G 40-160 (code 0.055.0307)

### Applications pads



**MICROFIBER PAD** - Ideal for "gres & porcelain" and carpet/moquette if used with dried foam shampoo.



**BEIGE PAD - POLISHING - Polyester.** To polish all kinds of floor. Use dry.



**GREEN PAD - INTERMEDIATE CLEANING ACTION - Nylon.** To remove all the old superficial wax, rests, obtaining ready floors to be recoated. Use wet.



**BLACK PAD - WET STRIPPING - Nylon.** For wet stripping of heavy layers of wax. Ideal to remove old floor finish scu and cement marks.



**Direct experience of professional people has resulted in LAVOR floor scrubbers range: easy to handle, powerful, efficient, carefully conceived and designed by using top-quality materials.**

### **Why cilindric brush?**

High speed rotation for a polishing effect; great dirt degrease in floors with grout ; possibility to link together the sweeping function; the rotation direction assists forwarding in models without traction.

### **Why disc brush?**

Extended mechanical action of the bristles on the floor, ideal for persistent dirt: the special setting of the brush plate allows a balanced gripping effect, assisting easy use in the non traction models. Complete cleaning also next to walls is possible and the compact washing element lower at the sides is studied to scrub also under edges.

### **How a squeegee should be designed?**

The shape and the material used grant a perfect drying in every condition, also on floors with grout or when quick U turns are necessary.

The floating body can stay in the machine operating space (compact/room saving)

The manual adjusting system grants a perfect drying on each kind of floors.

### **How long do battery charges last?**

It is impossible to determine exactly how long a battery charge lasts and so how long a machine can work in autonomy.

Battery autonomy changes depending on type of surface, dirt quantity, brush type and way in which traction system is used (speed and slope).

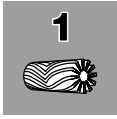
Battery life is made up of number of charge cycles (also incomplete), if usage conditions, charging and service are perfectly observed.

Manufacturing technology diversifies numbers of cycles, service needed, usage/charging conditions and performances.



• **Number of disc brushes:**  
The scrubbing group meets different cleaning

path need with 1, 2 or 3 disc brushes.



• **Number of cilindric brushes:** Scrubbing group offer 1 or 2 roller brush solutions together with the sweeping capability.

Bristles of different material allows perfect cleaning in any conditions, (carpet and parquet included).

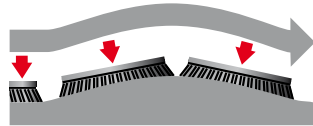


• **Cilindric brush quick connection and release:** The fittings and releasing of brushes is toolless. Ordinary cleaning maintenace are simple and quick for anybody.



• **Constant brush pressure:**  
The pressure of brushes on the floor is made by the heavy brush plate that follows irregularity on the floor and gives

always the top pressure without any adjustment still with shorter bristles.



**STOP**

• **Solenoid valve:**  
Together with the reliable mechanical solution faucet, this system reduce chemical consumption and avoid solution waste. The flow is open only when brush is working, there is no accidental leak with machine stopped. The system is protected by a filter with easy maintenance.



**CHARGER**

• **Integrated battery charger**  
Some models are equipped with integrated battery charger, other ones have the predisposition only. It is possible to charge batteries in different rooms, without coming back to the same place.



• **Integrated battery**  
Standard integrated battery is built with a maintenance free technology and it does not require restrictions about the place for battery charging. The non stop research allow to use always up-to-date batteries that combined with appropriate battery charger grant machine top performances.



• **Hour meter**  
Useful to check work sessions and to plan stops for battery charging. Best output and investment protection.

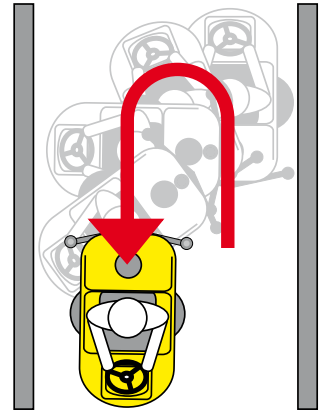


• **LEVEL** • **Charge meter and battery protection**  
It informs when the autonomy is finishing , allowing the end of the cleaning task (stopping brushes first and then the rest). It prevents damages to the batteries, preventing the complete discharge with any kind of technologies.

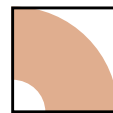


• **Eco Energy System**  
no-stop and separate control of water quantity and chemical product concentration with automatic and delayed stop of the supply when the machine stops (Automatic Detergent Measuring System).

• **U-turns in closed area**  
The space (length X width) needed to make a U-turn is the min. width in which it is possible to work with the machine. The smaller this room is, the higher the machine output, because less maneuvering is needed. The technical features of our floor scrubber driers (the front wheel shaft is close to the rear one in the walk behind models and the tight steering radius of ride-on ones) grant the minimum room for U-turns. On each ride-on models there is an automatic device that lowers speed when turning, raising the safety level also for inexperienced users.



## Applications pads



**BEIGE PAD - POLISHING - Polyester** To polish all kinds of floor. Use dry.



**GREEN PAD - INTERMEDIATE CLEANING ACTION - Nylon** To remove all the old superficial wax, rests, obtaining ready floors to be recoated. Use wet.



**BLACK PAD - WET STRIPPING - Nylon** For wet stripping of heavy layers of wax. Ideal to remove old floor finish scu and cement marks.

### Nomenclature

**Next EVO 66 BTA**

Model: Next EVO 66 BTA  
 Scrubbing width: 660 mm

E = ELECTRIC  
 B = BATTERY  
 BT = BATTERY with TRACTION  
 A = Automatic brush plate lifting for walk behind



Sprinter    Crystal Clean    Ready    Quick    Dart    Speed    Dynamic    Free Evo    Next Evo    Easy-R

| Code       | Model         | Page | Power supply | Brushes | Scrubbing width | Squeegee width | Max working capacity                   | Solution tank capacity | Recovery tank capacity | Packaging           | Weight | Weight | pcs x pallet |
|------------|---------------|------|--------------|---------|-----------------|----------------|--|------------------------|------------------------|---------------------|--------|--------|--------------|
|            |               |      | V            | n°      | mm              | mm             | m <sup>2</sup> /h - ft <sup>2</sup> /h | l/gal                  | l/gal                  | L x l x H<br>cm/inc | kg     | lbs    | n°           |
| 8.501.0501 | Sprinter      | 126  | 230V/50HZ    | 1       | 290             | 320            | 1015-10925                             | 2,8/0,74               | 5,6/1,48               | 116x40x36/46x16x14  | 17     | 37     | 10           |
| 8.501.0508 | Crystal Clean | 128  | 230V/50HZ    | 1       | 290             | 320            | 1015-10925                             | 2,8/0,74               | 5,6/1,48               | 100x40x42/39x16x17  | 19     | 42     | 15           |
| 0.008.0004 | Ready 32B     | 130  | 36V          | 2       | 320             | 340            | 1500-16145                             | 3,5/0,92               | 6,0/1,59               | 65x51x36/25,5x20x14 | 18     | 39     | 8            |
| 8.518.0004 | Quick 36E     | 132  | 230V/50HZ    | 1       | 360             | 460            | 1260-13562                             | 11/2,91                | 12/3,17                | 81x56x80/32x22x32   | 62     | 135    | 1            |
| 8.518.0003 | Quick 36B     | 132  | 12V          | 1       | 360             | 460            | 1260-13562                             | 11/2,91                | 12/3,17                | 81x56x80/32x22x32   | 70     | 154    | 1            |
| 8.581.0001 | Dart 36E      | 134  | 230V/50HZ    | 1       | 360             | 460            | 1260-13562                             | 15/3,96                | 16/4,23                | 98x47x78 /39x19x31  | 79     | 174    | 1            |
| 8.581.0002 | Dart 36B      | 134  | 24V          | 1       | 360             | 460            | 1260-13562                             | 15/3,96                | 16/4,23                | 98x47x78 /39x19x31  | 67     | 147    | 1            |
| 8.581.0003 | Dart 36B      | 134  | 24V          | 1       | 360             | 460            | 1260-13562                             | 15/3,96                | 16/4,23                | 98x47x78 /39x19x31  | 105    | 231    | 1            |
| 8.524.3302 | Speed 45E Eco | 136  | 230V/50HZ    | 1       | 450             | 800            | 1575-16952                             | 25/6,61                | 28/7,39                | 113x61x110/44x24x43 | 93     | 205    | 1            |
| 8.524.0002 | Speed 45B     | 136  | 24V          | 1       | 450             | 800            | 1575-16952                             | 25/6,61                | 28/7,39                | 113x61x110/44x24x43 | 73     | 161    | 1            |
| 8.524.1002 | Speed 45B     | 136  | 24V          | 1       | 450             | 800            | 1575-16952                             | 25/6,61                | 28/7,39                | 113x61x110/44x24x43 | 114    | 251    | 1            |
| 8.580.0001 | Dynamic 45E   | 138  | 230V/50HZ    | 1       | 450             | 540            | 1500-16145                             | 30/7,9                 | 35/9,24                | 117x58x78/46x22x30  | 88     | 194    | 1            |





Midi-R

Comfort XXS

Comfort XS-R

Comfort S-R

Comfort M

Comfort L

| Code       | Model                     | Page | Power supply | Brushes | Scrubbing width | Squeegee width | Max working capacity                   | Solution tank capacity | Recovery tank capacity | Packaging               | Weight | Weight | pcs x pallet |
|------------|---------------------------|------|--------------|---------|-----------------|----------------|--|------------------------|------------------------|-------------------------|--------|--------|--------------|
|            |                           |      | V            | n°      | mm              | mm             | m <sup>2</sup> /h - ft <sup>2</sup> /h | l/gal                  | l/gal                  | L x l x H<br>cm/inc     | kg     | lbs    | n°           |
| 8.580.0002 | Dynamic 45B               | 138  | 24V          | 1       | 450             | 540            | 1500-16145                             | 30/7,9                 | 35/9,24                | 117x58x78/46x22x30      | 74     | 163    | 1            |
| 8.580.0003 | Dynamic 45B               | 138  | 24V          | 1       | 450             | 540            | 1500-16145                             | 30/7,9                 | 35/9,24                | 117x58x78/46x22x30      | 112    | 247    | 1            |
| 8.527.0003 | Free EVO 50E              | 140  | 230V/50HZ    | 1       | 500             | 800            | 2000-21527                             | 44/11,63               | 50/13,21               | 125x57x116/49,5x22,5x46 | 117    | 258    | 1            |
| 8.527.0004 | Free EVO 50B              | 140  | 24V          | 1       | 500             | 800            | 2000-21527                             | 44/11,63               | 50/13,21               | 125x57x116/49,5x22,5x46 | 83     | 183    | 1            |
| 8.527.0001 | Free EVO 50B              | 140  | 24V          | 1       | 500             | 800            | 2000-21527                             | 44/11,63               | 50/13,21               | 125x57x116/49,5x22,5x46 | 84     | 187    | 1            |
| 8.527.0010 | Free EVO 50B              | 140  | 24V          | 1       | 500             | 800            | 2000-21527                             | 44/11,63               | 50/13,21               | 125x57x116/49,5x22,5x46 | 138    | 304    | 1            |
| 8.527.0011 | Free EVO 50BT             | 140  | 24V          | 1       | 500             | 800            | 2000-21527                             | 44/11,63               | 50/13,21               | 125x57x116/49,5x22,5x46 | 87     | 187    | 1            |
| 8.527.0002 | Free EVO 50BT             | 140  | 24V          | 1       | 500             | 800            | 2000-21527                             | 44/11,63               | 50/13,21               | 125x57x116/49,5x22,5x46 | 88     | 191    | 1            |
| 8.527.0012 | Free EVO 50BT             | 140  | 24V          | 1       | 500             | 800            | 2000-21527                             | 44/11,63               | 50/13,21               | 125x57x116/49,5x22,5x46 | 142    | 313    | 1            |
| 8.525.1301 | Next EVO 55BT             | 142  | 24V          | 1       | 550             | 800            | 2200-24210                             | 55/14,52               | 65/17,17               | 142x72x123/56x28x48     | 133    | 293    | 1            |
| 8.525.1302 | Next EVO 66BTA            | 142  | 24V          | 2       | 660             | 800            | 2640-28416                             | 55/14,52               | 65/17,17               | 142x72x123/56x28x48     | 138    | 304    | 1            |
| 8.516.0406 | Easy-R 50BT               | 144  | 24V          | 1       | 500             | 800            | 2250-24218                             | 67/17,70               | 77/20,35               | 142x72x123/56x28x48     | 132    | 291    | 1            |
| 8.516.0407 | Easy-R 55BT               | 144  | 24V          | 2       | 550             | 800            | 2475-26640                             | 67/17,70               | 77/20,35               | 142x72x123/56x28x48     | 127    | 279    | 1            |
| 8.516.0415 | Easy-R 66BT               | 144  | 24V          | 2       | 660             | 800            | 2970-31968                             | 67/17,70               | 77/20,35               | 142x72x123/56x28x48     | 122    | 268    | 1            |
| 8.517.0105 | Midi-R 75BT               | 146  | 24V          | 2       | 750             | 900            | 4275-46015                             | 88/23,25               | 91/24,04               | 156x74x128/61x29x50     | 180    | 396    | 1            |
| 8.579.0001 | Comfort XXS 66            | 148  | 24V          | 2       | 660             | 855            | 3250-34982                             | 75/19,81               | 80/21,13               | 140x82x135/56x33x53     | 175    | 390    | 1            |
| 8.579.0002 | Comfort XXS 66            | 148  | 24V          | 2       | 660             | 855            | 3250-34982                             | 75/19,81               | 80/21,13               | 140x82x135/56x33x53     | 247    | 544    | 1            |
| 8.579.0011 | Comfort XXS 66            | 148  | 24V          | 2       | 660             | 855            | 3250-34982                             | 75/19,81               | 80/21,13               | 140x82x135/56x33x53     | 177    | 394    | 1            |
| 8.574.4001 | Comfort XS-R 75 Essential | 150  | 24V          | 2       | 750             | 900            | 3750-40364                             | 110/29,06              | 130/34,34              | 152x97x154/59x39x61     | 217    | 478    | 1            |
| 8.574.4003 | Comfort XS-R 85 Essential | 150  | 24V          | 2       | 750             | 900            | 3750-40364                             | 110/29,06              | 130/34,34              | 152x97x154/59x39x61     | 222    | 489    | 1            |
| 8.574.4101 | Comfort XS-R 75 UP        | 152  | 24V          | 2       | 750             | 900            | 3750-40364                             | 110/29,06              | 130/34,34              | 152x97x154/59x39x61     | 223    | 491    | 1            |
| 8.574.4103 | Comfort XS-R 85 UP        | 152  | 24V          | 2       | 820             | 1000           | 6200-66000                             | 110/29,06              | 130/34,34              | 152x97x154/59x39x61     | 229    | 504    | 1            |
| 8.575.0010 | Comfort S-R 90            | 154  | 24V          | 2       | 900             | 1000           | 5740-61784                             | 140/36,99              | 150/39,63              | 200x118x171/79x46x67    | 307    | 676    | 1            |
| 8.578.0004 | Comfort M102              | 156  | 36V          | 2       | 1020            | 1250           | 7140-76854                             | 200/52,84              | 210/55,48              | 200x118x171/79x46x67    | 386    | 850    | 1            |
| 8.572.0002 | Comfort L122              | 158  | 36V          | 3       | 1220            | 1450           | 8540-91923                             | 280/73,97              | 315/83,22              | 230x135x190/91x53x74    | 684    | 1507   | 1            |

### Sprinter



- Suitable to work in high congested areas like small shops, offices, kitchens, schools, hospitals, bars, gyms, restaurants
- Three controls for brush drive, washing and drying operations
- Double floor squeegee for both forward and reverse drying
- Sound pressure 68 dB (A)
- Min. working height required 200 mm
- Structure built with durable materials
- Suitable load on the brush for an optimal cleaning efficiency
- Detachable detergent/recovery tank
- Cable holder
- 7mt electric cable
- Non-marking wheels.

#### Standard equipment:



- 6.505.0002  
PP brush Ø 100 mm



- 6.505.0001  
Squeegee kit



- 5.509.0007  
Stationary plate

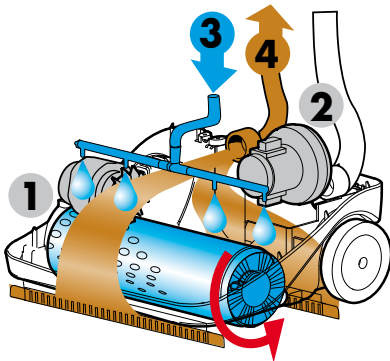


- 0.010.0034  
4 x 100 ml concentrated  
detergent



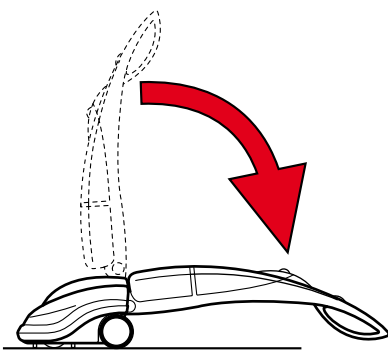
Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                             | Sprinter                      |
|-----------------------------|-------------------------------|
| code                        | 8.501.0501                    |
| power supply                | 230 V - 50 Hz                 |
| scrubbing/squeegee width    | 290/320 mm                    |
| max working capacity        | 1015 m <sup>2</sup> /h        |
| solution tank capacity      | 2.8 l/0.74 gal                |
| recovery tank capacity      | 5.6 l/1.48 gal                |
| traction                    | mechanical                    |
| RPM/pressure on the brushes | 1000/7 kg/15,43 lbs           |
| brush motor power           | 200 W                         |
| noise level dB (A)          | 68                            |
| depression/vacuum motor     | 1428 mmH <sub>2</sub> O/800 W |
| dimensions/weight           | 37 x 37 x 113 cm/13 kg        |



- 1) Brush motor
- 2) Vacuum motor
- 3) Detergent solution flow
- 4) Dirty liquid flow

Double squeegee for both forward and reverse washing and drying.  
PP brush suitable for most common floors (brush for carpet and moquette cleaning available).  
ABS shock-proof covers. Non-marking rubber wheels.



Minimum working height 200 mm, allowing perfect cleaning under furnitures, chairs, tables, beds, etc.  
The tilting handle makes easy and stressless the daily use of the machine.  
Large tank capacity avoiding frequent refilling of the unit

Cylindrical brush quick connection and release: the fitting and releasing of the brush does not require the use of tools. Ordinary cleaning and maintenance are simple and quick for anybody



**Optional accessories:**

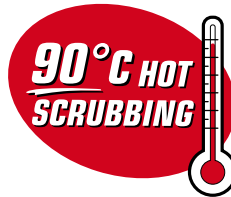


- 6.505.0009  
Carpet cleaning kit



- 4.512.0068  
Extension electric cord 15 m with Schuko plug

### Crystal Clean



- Suitable to work in high congested areas like small shops, offices, kitchens, schools, hospitals, bars, gyms, restaurants
- 90°C hot scrubbing
- Three controls for brush drive, washing and drying operations
- Double floor squeegee for both forward and reverse drying
- Sound pressure 68 dB (A)
- Min. working height required 200 mm
- Structure built with durable materials
- Suitable load on the brush for an optimal cleaning efficiency
- Detachable detergent/recovery tank
- Cable holder
- 10 mt electric cable
- Non-marking wheels.

#### Standard equipment:



- 6.505.0002  
PP brush Ø 100 mm



- 5.509.0394  
Soft brush Ø 100 mm



- 6.505.0001  
Squeegee kit



- 5.509.0007  
Stationary plate



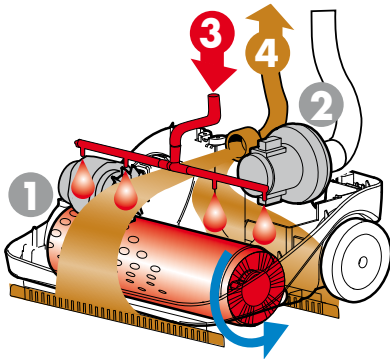
- 0.010.0034  
4 x 100 ml concentrated detergent



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                             | Crystal Clean                 |
|-----------------------------|-------------------------------|
| code                        | 8.501.0508                    |
| power supply                | 230 V - 50 Hz                 |
| scrubbing/squeegee width    | 290/320 mm                    |
| max working capacity        | 1015 m <sup>2</sup> /h        |
| solution tank capacity      | 2.8 l/0.74 gal                |
| recovery tank capacity      | 5.6 l/1.48 gal                |
| traction                    | mechanical                    |
| RPM/pressure on the brushes | 1000/7 kg/15,43 lbs           |
| brush motor power           | 200 W                         |
| noise level dB (A)          | 68                            |
| depression/vacuum motor     | 1428 mmH <sub>2</sub> O/800 W |
| dimensions/weight           | 37 x 37 x 113 cm/13 kg        |





- 1) Brush motor
- 2) Vacuum motor
- 3) Hot water with detergent solution flow
- 4) Dirty liquid flow



**Optional accessories:**

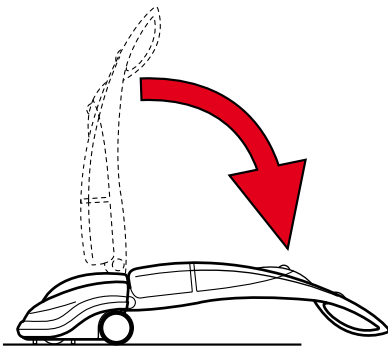


- 6.505.0009  
Carpet cleaning kit



- 4.512.0068  
Extension electric cord 15 m  
with Schuko plug

Double squeegee for both forward and reverse washing and drying.  
PP brush suitable for most common floors and soft brush for carpet and moquette cleaning. Hot water cleaning for a faster and perfect removal of the most common organic dirt (grease, mud, oil, etc.)



Minimum working height 200 mm, allowing perfect cleaning under furnitures, chairs, tables, beds, etc.  
The tilting handle makes easy and stressless the daily use of the machine.  
Large tank capacity avoiding frequent refilling of the unit

Cylindrical brush quick connection and release: the fitting and releasing of the brush does not require the use of tools. Ordinary cleaning and maintenance are simple and quick for anybody



## Ready



LEVEL



CHARGER



LI-ION battery



• 2 x 0.105.0102  
grey brush



• 0.105.0103  
Kit squeegee dual  
assembled  
• 0.105.0104  
Kit squeegee mono  
assembled



• 0.105.0106 LI-ION battery



• 0.105.0105  
battery charger

- Ready washes, sweeps and dries in both working directions.
- High cleaning performance thanks to the dual contra-rotating cylindrical brushes.
- Key features: sweeping action, bi-directional drying, multi-surface capabilities (including carpets and rugs).
- "Start-stop" safety handle.
- Lightweight (only 15Kg) and easy to handle, cleaning the floor has never been less tiring.
- Maintenance and lubrication free
- Low running noise <70 dB

### Ready 32B

|                             |                                    |
|-----------------------------|------------------------------------|
| code                        | 0.008.0004                         |
| power supply                | 36V (battery and charger included) |
| scrubbing/squeegee width    | 320/340 mm                         |
| max working capacity        | 1500 m <sup>2</sup> /h             |
| solution tank capacity      | 3,5 l/0.92 gal                     |
| recovery tank capacity      | 6,0 l/1.59 gal                     |
| traction                    | mechanical                         |
| RPM/pressure on the brushes | 650/17 kg/37.50 lbs                |
| brush motor power           | 200 W                              |
| noise level dB (A)          | <70                                |
| depression/vacuum motor     | 1000 mmH <sub>2</sub> O/100 W      |
| dimensions/weight           | 49x41x112 cm/15 Kg                 |



Dual contra-rotating cylindrical brushes offer up to 40% more cleaning performance in a single pass, significantly increasing productivity. The machine features a safety handle for switching it on and off instantaneously. Flexibility of use thanks to the bi-directional handle and floor squeegee which allow

**Optional accessories:**



- 0.105.0108  
Black brush - hard  
(all-purpose for hard floors)



- 0.105.0107 Fast charger

the machine to be used in any working direction. Sweeping function thanks to the dual contra-rotating cylindrical brushes, combined with a special "mechanical" recovery system, Ready washes, sweeps and dries at the same time. Multi-surface use thanks to dual brushes, has been designed



for use on all floor surfaces, including carpets and rugs: it is suited for wood, cotto, ceramic floor tiles, stone, marble, textured flooring, bolted rubber flooring, carpet tiles and carpets with ease. The perfect balance: the centrally mounted motor and tank ensure a perfect balance, the essential

prerequisite for light weight and good handling in all conditions. Completely protected components: the only fully sealed machine: no water, dust or residue of any kind can get into it.





**LEVEL**



**CHARGER**

### Quick



#### Standard equipment:



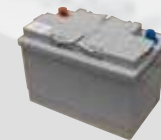
- 5.511.1346  
PP brush Ø 360 mm - 14"



- 4.508.1100  
Front squeegee blade  
L.537 mm - Th. 1,5 mm
- 4.508.1101  
Rear squeegee blade  
L.590 mm - Th. 2,5 mm



- 0.108.0061  
On-board Battery charger  
12V 8A  
only for model code:  
8.518.0003



- 0.107.0061  
Maintenance free battery  
12V MFP 50  
65Ah C20/50Ah C-5  
only for model code:  
8.518.0003

- 0.108.0025  
Power cable 1,5 mt.  
for battery charger  
only for model code:  
8.518.0003



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

- Suitable to work in high congested areas like small shops, offices, kitchens, schools, hospitals, bars, gyms, restaurants
- Adjustable flow (automatic start-stop with solenoid valve) of the detergent solution depending on type of surface
- Brush with quick release
- Removable recovery tank
- Available in battery version (36B) with integrated battery charger with data memory and for any type of batteries
- Battery included
- Squeegee lifting lever
- Compact reclining handle with control switches
- Easy access and simple service of the components.

|                             | Quick 36E                    | Quick 36B                             |
|-----------------------------|------------------------------|---------------------------------------|
| code                        | 8.518.0004                   | 8.518.0003                            |
| power supply                | 220/240 V - 50/60 Hz         | 12 V (batteries and charger included) |
| scrubbing/squeegee width    | 360/460 mm                   | 360/460 mm                            |
| max working capacity        | 1260 m <sup>2</sup> /h       | 1260 m <sup>2</sup> /h                |
| solution tank capacity      | 11 l/2.91 gal                | 11 l/2.91 gal                         |
| recovery tank capacity      | 12-13 l/3.2 gal              | 12-13 l/3.2 gal                       |
| traction                    | mechanical                   | mechanical                            |
| RPM/pressure on the brushes | 130/18 kg/40 lbs             | 130/18 kg/40 lbs                      |
| brush motor power           | 370 W                        | 250 W                                 |
| detergent solution system   | solenoid valve               | solenoid valve                        |
| depression/vacuum motor     | 850 mmH <sub>2</sub> O/400 W | 650 mmH <sub>2</sub> O/180 W          |
| dimensions/weight           | 120x43x97 cm/49kg            | 120x43x97 cm/57kg                     |



The unit can be supplied mains (15 m optional extension cable available) or battery powered. Reclining handle: fit on any operator's height and allowing the perfect cleaning also on 90° corners. Shock-absorbing covers, simple cleaning of the recovery tank, non marking wheels.

Easy access to mechanical parts (easy maintenance of each component), removable recovery tank without tools.



**Optional accessories:**



- 0.107.0050 Battery AGM 12V 55Ah



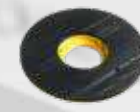
- 0.108.0051 Booster battery charger



- 4.508.1058 Polyurethane front blade L.537 TH. 2,5
- 4.508.1059 Polyurethane rear blade L.590 TH. 3



- 5.511.1413 Tynex brush Ø 360 mm-14"
- 5.511.1411 PP 0,03 brush Ø 360 mm-14"
- 5.511.1412 PES brush Ø 360 mm-14"



- 5.511.1129 EWU pad driver Ø 360mm-14"



- 6.508.0143 Abrasive pad Ø 381 mm-15" - beige (5 pcs.)
- 6.508.0144 Abrasive pad Ø 381 mm-15" - green (5 pcs.)
- 6.508.0141 Abrasive pad Ø 381 mm-15" - black (5 pcs.)



User friendly analogic control panel. Control lever for brush operation and detergent water outflow. General ON/OFF switch, brush and vacuum motor switch, solenoid valve operation switch.

Parabolic squeegee, easy rubber blades replacement. The floating brush plate and squeegee grant the right cleaning pressure on any type of floor.



- 4.512.0068 Extension electric cord 15 m with Schuko plug

### Dart



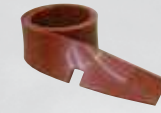
**NEW**



#### Standard equipment:



- 5.511.2151  
PP brush Ø 360 mm - 14"



- 4.508.1100  
Front squeegee blade  
L.537 mm - Th. 1,5 mm
- 4.508.1101  
Rear squeegee blade  
L.590 mm - Th. 2,5 mm



- 0.108.0076  
On-board Battery charger  
only for model code:  
8.581.0002  
8.581.0003



- 2x 0.107.0083  
AGM NP3312 12 V 33 Ah  
C20/28 Ah C5 (only for  
model code: 8.581.0003)

- Ideal for small and medium floors up to 1260 sqm, especially when congested by people or furnishing like in wellness centres, gyms, car showroom, retail shops, hospitals and schools.
- Automatic brush attachment, discharge and delayed cut-off.
- Narrow body with both side brush protrusion and 300° squeegee spin.
- Tool less removable recovery tank with large visual inspection window and stretchable discharge hose.
- Adjustable driving handle with dead man switches, soft touch controls and diagnosis (Eco Energy mode and battery low level automatic cut-off for DC version).
- Large non marking working wheels and sturdy rear roller for displacements.

|                             | Dart 36E                     | Dart 36B                       | Dart 36B                             |
|-----------------------------|------------------------------|--------------------------------|--------------------------------------|
| code                        | 8.581.0001                   | 8.581.0002                     | 8.581.0003                           |
| power supply                | 220/240 V 50/60Hz            | 24V (battery charger included) | 24V (batteries and charger included) |
| scrubbing/squeegee width    | 360/460 mm                   | 360/460 mm                     | 360/460 mm                           |
| max working capacity        | 1260 m <sup>2</sup> /h       | 1260 m <sup>2</sup> /h         | 1260 m <sup>2</sup> /h               |
| solution tank capacity      | 15 l/3.96 gal                | 15 l/3.96 gal                  | 15 l/3.96 gal                        |
| recovery tank capacity      | 16 l/4.23 gal                | 16 l/4.23 gal                  | 16 l/4.23 gal                        |
| traction                    | mechanical                   | mechanical                     | mechanical                           |
| RPM/pressure on the brushes | 130/18 kg/40 lbs             | 130/18 kg/40 lbs               | 130/18 kg/40 lbs                     |
| brush motor power           | 300 W                        | 400 W                          | 400 W                                |
| detergent solution system   | solenoid valve               | solenoid valve                 | solenoid valve                       |
| depression/vacuum motor     | 850 mmH <sub>2</sub> O/350 W | 850 mmH <sub>2</sub> O/270 W   | 850 mmH <sub>2</sub> O/270 W         |
| dimensions/weight           | 98x47x99 cm/57 kg            | 98x47x99 cm/46 kg              | 98x47x99 cm/87 kg                    |



On/off switch protecting unintentional use.  
Protection against overloads, battery discharge abuse (DC only) and undesired run.  
Convenient one switch maintenance over the brush.  
Eco Energy setting for extensive working time and extremely quiet operations (DC only).

Accessible on-board charger (DC only, when provided), far away from sprays.  
Time saving convenient foot operating squeegee lift.  
Handle can be easily adjusted to fit comfort of operators even in narrow spaces.



Easy access and handling to clean recovery tank and floater.  
Less downtimes due to simple maintenance and construction  
Great visibility and cleaning capability on hard to reach edges on both sides of the brush.

Extensive squeegee spin for easy blade replacement and perfect suction even on corners  
Easy setting and automatic solution release to save chemical and fit different floor conditions.  
High stability and capability to overtake small steps.



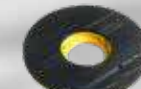
**Optional accessories:**



- 4.508.1058 Polyurethane front blade L.537 TH. 2,5
- 4.508.1059 Polyurethane rear blade L.590 TH. 3



- 5.511.2169 Tynex brush Ø 360 mm-14"
- 5.511.2171 PP,0,03 brush Ø 360 mm-14"
- 5.511.2170 PES brush Ø 360 mm - 14"



- 5.511.0543 EWU pad driver Ø 360 mm-14"



- 6.508.0143 Abrasive pad Ø 381 mm-15" - beige
- 6.508.0144 Abrasive pad Ø 381 mm-15" - green
- 6.508.0141 Abrasive pad Ø 381 mm-15" - black



- 4.512.0068 Extension electric cord 15 m with Schuko plug (Dart 36 E)



### Speed

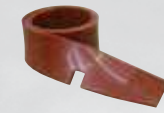


- Suitable to work in high congested areas like wellness centres and medical environments in general, gyms, retail outlets, car shops, sales points and health care
- Solution water filter and solenoid valve (battery model only)
- User friendly control panel
- Hour meter (optional)
- Recovery water tank with visual inspection
- Reclining handle with control lever (battery model only)
- Low noise operation thanks to the protected positioning of vacuum motor
- Recovery tank drain hose with adjustable flow system
- Indicator of the solution water tank fill level
- Easy access to the recovery tank
- Non-marking wheels.

### Standard equipment:



- 5.511.1688  
PP brush Ø 430 mm - 17"



- 4.508.X468  
Front squeegee blade L.830 mm Shore 40 Th. 2,5 mm
- 4.508.X467  
Rear squeegee blade L.870 mm Shore 40 Th. 3 mm



- 0.108.0042  
On-board Battery charger 24V 10A
- only for model code:  
8.524.1002  
8.524.0002



- 2 x 0.107.0061  
Maintenance free battery 12 MFP 50 - 12V 50Ah
- only for model code:  
8.524.0002



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                             | Speed 45E                     | Speed 45B                      | Speed 45B                            |
|-----------------------------|-------------------------------|--------------------------------|--------------------------------------|
| code                        | 8.524.3302                    | 8.524.1002                     | 8.524.0002                           |
| power supply                | 230 V - 50 Hz                 | 24V (battery charger included) | 24V (batteries and charger included) |
| scrubbing/squeegee width    | 430/800 mm                    | 430/800 mm                     | 430/800 mm                           |
| max working capacity        | 1575 m <sup>2</sup> /h        | 1575 m <sup>2</sup> /h         | 1575 m <sup>2</sup> /h               |
| solution tank capacity      | 25 l/6.61 gal                 | 25 l/6.61 gal                  | 25 l/6.61 gal                        |
| recovery tank capacity      | 25-28 l/6.61 gal              | 25-28 l/6.61 gal               | 25-28 l/6.61 gal                     |
| traction                    | mechanical                    | mechanical                     | mechanical                           |
| RPM/pressure on the brushes | 140/25 kg/39,68 lbs           | 150/18 kg/39,68 lbs            | 150/18 kg/39,68 lbs                  |
| brush motor power           | 550 W                         | 450 W                          | 450 W                                |
| detergent solution system   | mechanical                    | solenoid valve                 | solenoid valve                       |
| depression/vacuum motor     | 1100 mmH <sub>2</sub> O/400 W | 1100 mmH <sub>2</sub> O/370 W  | 1100 mmH <sub>2</sub> O/370 W        |
| dimensions/weight           | 106x50x88 cm/76 kg            | 106x50x88 cm/76kg              | 106x50x88 cm/117kg                   |





User friendly analogic control panel. Control lever for brush operation and detergent water outflow. ON/OFF and battery cutout key switch, brush and vacuum motor switch, thermal circuit breaker to protect vacuum and brush motor, battery level indicator, hour meter (optional).

**Optional accessories:**



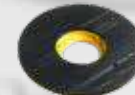
- 0.107.0050 Battery AGM 12V 55Ah



- 4.508.1178 Polyurethane front blade L.830 TH. 3
- 4.508.1177 Polyurethane rear blade L.870 TH. 4



- 5.511.1713 Tynex brush Ø 430 mm-17"
- 5.511.1711 PP 0,03 brush Ø 430 mm-17"
- 5.511.1712 PES brush Ø 430 mm - 17"



- 5.511.1095 EWU pad driver Ø 430 mm-17"



- 6.508.0032 Abrasive pad Ø 430 mm-17" - beige (5 pcs.)
- 6.508.0039 Abrasive pad Ø 430 mm-17" - green (5 pcs.)
- 6.508.0046 Abrasive pad Ø 430 mm-17" - black (5 pcs.)



- 4.512.0068 Extension electric cord 15 m with Schuko plug

Indicator of clean water tank level. Recovery tank drain hose with adjustable flow system.



Easy access to recovery water tank with visual inspection. Extremely silent (62 dB) thanks to the particular housing of the vacuum motor and the use of soundproofing material.

Thanks to the special squeegee support it is easily possible the tilting of the machine to carry out the drying of the floor without scrubbing. The oversize wheels facilitate maneuverability and effortless use.



### Dynamic



#### Standard equipment:



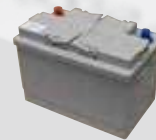
- 5.511.1941  
PP brush Ø 430 mm - 17"



- 4.508.1319 Front squeegee blade Shore 40 Th. 2,5 mm
- 4.508.1320 Rear squeegee blade Shore 40 Th. 3,0 mm



- 0.108.0073  
On-board Battery charger 24V 10A  
(only for model code: 8.580.0002/8.580.0003)



- 2 x 0.107.0061  
Maintenance free battery 12 MFP 50 - 12V 50Ah  
only for model code: 8.580.0003

- Ideal for small and medium floors up to 1600sqm, especially when congested by people or furnishing like in wellness centres, gyms, car showroom, retail shops, hospitals and schools.
- Automatic brush attachment, discharge and delayed cut-off.
- Adjustable solution release with automatic cut-off.
- Narrow body with both side brush protrusion and 300° squeegee spin.
- Tool less removable recovery tank with large visual inspection window and stretchable discharge hose.
- Adjustable driving handle with dead man switches, soft touch controls and diagnosis (Eco Energy mode and battery low level automatic cut-off for DC version).
- Large non marking working wheels and sturdy rear roller for displacements.



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                             | Dynamic 45E                   | Dynamic 45B                    | Dynamic 45B                          |
|-----------------------------|-------------------------------|--------------------------------|--------------------------------------|
| code                        | 8.580.0001                    | 8.580.0002                     | 8.580.0003                           |
| power supply                | 230V 50Hz                     | 24V (battery charger included) | 24V (batteries and charger included) |
| scrubbing/squeegee width    | 450/540 mm                    | 450/540 mm                     | 450/540 mm                           |
| max working capacity        | 1600 m <sup>2</sup> /h        | 1600 m <sup>2</sup> /h         | 1600 m <sup>2</sup> /h               |
| solution tank capacity      | 30 l/7.92 gal                 | 30 l/7.92 gal                  | 30 l/7.92 gal                        |
| recovery tank capacity      | 32-35 l/8.45 - 9.24 gal       | 32-35 l/8.45 - 9.24 gal        | 32-35 l/8.45 - 9.24 gal              |
| traction                    | mechanical                    | mechanical                     | mechanical                           |
| RPM/pressure on the brushes | 150/18 kg/39,68 lbs           | 150/18 kg/39,68 lbs            | 150/18 kg/39,68 lbs                  |
| brush motor power           | 300 W                         | 400 W                          | 400 W                                |
| detergent solution system   | solenoid valve                | solenoid valve                 | solenoid valve                       |
| depression/vacuum motor     | 1200 mmH <sub>2</sub> O/800 W | 1200 mmH <sub>2</sub> O/400 W  | 1200 mmH <sub>2</sub> O/400 W        |
| dimensions/weight           | 117x58x78 cm/66 kg            | 117x58x78 cm/53 kg             | 117x58x78 cm/94 kg                   |



On/off switch protecting unintentional use.  
Protection against overloads, battery discharge abuse (DC only) and undesired run.  
Convenient one switch maintenance over the brush.  
Eco Energy setting for extensive working time and extremely quiet operations (DC only).

**Optional accessories:**



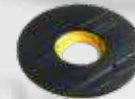
- 2 x 0.107.0050 Battery AGM 12V 55Ah



- 4.508.1324 Polyurethane front blade TH. 3
- 4.508.1325 Polyurethane rear blade TH. 4



- 5.511.1942 Tynex brush Ø 430 mm-17"
- 5.511.1943 PP 0,03 brush Ø 430 mm-17"
- 5.511.1944 PES brush Ø 430 mm - 17"



- 5.511.0229 EWU pad driver Ø 430 mm-17"



- 6.508.0032 Abrasive pad Ø 430 mm-17" - beige (5 pcs.)
- 6.508.0039 Abrasive pad Ø 430 mm-17" - green (5 pcs.)
- 6.508.0046 Abrasive pad Ø 430 mm-17" - black (5 pcs.)



- 4.512.0068 Extension electric cord 15 m with Schuko plug

Accessible on-board charger (DC only, when provided), far away from sprays.  
Time saving convenient foot operating squeegee lift.  
Handle can be easily adjusted to fit comfort of operators even in narrow spaces.



Easy access and handling to clean recovery tank and floater.  
Less downtimes due to simple maintenance and construction  
Great visibility and cleaning capability on hard to reach edges on both sides of the brush.



Extensive squeegee spin for easy blade replacement and perfect suction even on corners  
Easy setting and automatic solution release to save chemical and fit different floor conditions.  
High stability and capability to overtake small steps.



### Free Evo



#### Standard equipment:



• 5.511.2167  
PP brush Ø 483 mm - 19"



• 4.508.X468  
Front squeegee blade L.830 mm Shore 40 Th. 2.5 mm  
• 4.508.X467  
Rear squeegee blade L.870 mm Shore 40 Th. 3 mm



• 0.108.0042  
On-board Battery charger 24V 10A  
only for model code:  
8.527.0001 - 8.527.0002  
8.527.0010 - 8.527.0012



• 2 x 0.107.0054  
Maintenance free battery 12V 75Ah BT DC 5.5  
only for model code:  
8.527.0010 - 8.527.0012

#### Other available versions:

- 8.527.0010 - Free Evo 50B with batteries and battery charger
- 8.527.0012 - Free Evo 50BT with batteries and battery charger



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

- Very compact scrubbing machines suitable to work for the maintenance cleaning of limited-size areas (up to 1.500 m<sup>2</sup>)
- Especially suitable for cleaning: car shops, sales points, gym, health care
- Control panel with operator presence safety system
- Low level battery indicator: brush/vacuum and traction progressive cut off
- Solution water filter and solenoid valve
- Easy access to the battery compartment
- Quick drain and easily inspectable recovery tank
- Non-marking wheels
- Roto-molded polyethylene tanks, shock and acid resistant
- The lower tank also serves as battery compartment
- Low noise operation thanks to the protected positioning of vacuum motor.

|                             | Free Evo 50E                 | Free Evo 50B                | Free Evo 50B                   | Free Evo 50BT                | Free Evo 50BT                  |
|-----------------------------|------------------------------|-----------------------------|--------------------------------|------------------------------|--------------------------------|
| code                        | 8.527.0003                   | 8.527.0004                  | 8.527.0001                     | 8.527.0011                   | 8.527.0002                     |
| power supply                | 230 V - 50 Hz                | 24V                         | 24V (battery charger included) | 24V                          | 24V (battery charger included) |
| scrubbing/squeegee width    | 500/800 mm                   | 500/800 mm                  | 500/800 mm                     | 500/800 mm                   | 500/800 mm                     |
| max working capacity        | 2000 m <sup>2</sup> /h       | 2000 m <sup>2</sup> /h      | 2000 m <sup>2</sup> /h         | 2000 m <sup>2</sup> /h       | 2000 m <sup>2</sup> /h         |
| solution tank capacity      | 44 l/11,63 gal               | 44 l/11,63 gal              | 44 l/11,63 gal                 | 44 l/11,63 gal               | 44 l/11,63 gal                 |
| recovery tank capacity      | 50-60 l/13,21-16 gal         | 50-60 l/13,21-16 gal        | 50-60 l/13,21-16 gal           | 50-60 l/13,21-16 gal         | 50-60 l/13,21-16 gal           |
| traction/traction motor     | mechanical                   | mechanical                  | mechanical                     | automatic/150W               | automatic/150W                 |
| RPM/pressure on the brushes | 150/20 kg/44,09 lbs          | 150/18 kg/44,09 lbs         | 150/18 kg/44,09 lbs            | 150/18 kg/44,09 lbs          | 150/18 kg/44,09 lbs            |
| brush motor power           | 550W                         | 550W                        | 550W                           | 550W                         | 550W                           |
| detergent solution system   | solenoid valve               | solenoid valve              | solenoid valve                 | solenoid valve               | solenoid valve                 |
| depression/vacuum motor     | 1700 mmH <sub>2</sub> O/800W | 1280mmH <sub>2</sub> O/400W | 1280 mmH <sub>2</sub> O/400W   | 1280 mmH <sub>2</sub> O/400W | 1280 mmH <sub>2</sub> O/400W   |
| dimensions/weight           | 116x46x98cm/95 kg            | 116x51x98cm/62 kg           | 116x51x98cm/63 kg              | 116x51x98cm/66 kg            | 116x51x98cm/67 kg              |



Powerful gearmotor; metal brush plate with integrated plastic splash guard/bumper.

The outflow of the detergent solution is controlled by a solenoid valve. The actuation of the solenoid valve is operated by the control lever, avoiding the detergent solution outflow when the brush is stopped during the interruptions of work.



Renovated squeegee with new pressure adjusting system. The squeegee blades are easily replaceable without the use of tools. Quick and easy squeegee coupling through the two large knobs; the squeegee is released without any damage in the event of accidental impact.

Easy and intuitive controls. The outflow of the cleaning solution is easily controlled using the mechanical lever placed on the control panel. Inspectable mesh filter to trap any existing solid body in the cleaning solution.



**Optional accessories:**



- 2 x 0.107.0002  
Tubular battery Pb-acid  
12V 118Ah C5



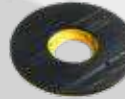
- 2 x 0.107.0063  
GEL Battery 12 MFP 105  
12V 105Ah C5



- 4.508.1178 Polyurethane  
front blade L.830 TH. 3
- 4.508.1177 Polyurethane  
rear blade L.870 TH. 4



- 5.511.1098  
Tynex brush Ø 483 mm-19"
- 5.511.1128  
PP 0,03 brush Ø 483 mm-19"
- 5.511.1206  
PES brush Ø 483 mm - 19"



- 5.511.1099  
EWU pad driver Ø 483  
mm-19"



- 6.508.0034  
Abrasive pad Ø 483 mm-19"  
- beige (5 pcs.)
- 6.508.0041  
Abrasive pad Ø 483 mm-19"  
- green (5 pcs.)
- 6.508.0048  
Abrasive pad Ø 483 mm-19"  
- black (5 pcs.)



- 4.512.0068  
Extension electric cord 15 m  
with Schuko plug

## Next Evo



- Designed for the maintenance and deep cleaning of large areas (up to 1.700 m<sup>2</sup>)
- Especially suitable for cleaning: car shops, sales points, gym, health care
- User friendly control panel
- Hour meter
- Automatic brush lifting (model 66BTA only)
- Fully accessible recovery water tank with visual inspection
- Automatic detergent measuring system
- Big size traction wheels
- Handle with control lever.

### Standard equipment:



#### Next Evo 55

- 5.511.1113
- PP brush Ø 533 mm - 21"



#### Next Evo 66

- 2 x 5.511.1105
- PP brush Ø 330 mm - 13"



#### Next Evo 55

- 4.508.X468
- Front squeegee blade L.830 mm
- Shore 40 Th. 2.5 mm
- 4.508.X467
- Rear squeegee blade L.870 mm
- Shore 40 Th. 3 mm

#### Next Evo 66

- 4.508.1524
- Front squeegee blade L.860 mm
- Shore 33 Th. 4 mm
- 4.508.1523
- Rear squeegee blade L.900 mm
- Shore 40 Th. 4 mm



- 0.108.0059
- On-board Battery charger
- 24V 12A



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                             | Next Evo 55BT                  | Next Evo 66BTA                 |
|-----------------------------|--------------------------------|--------------------------------|
| code                        | 8.525.1301                     | 8.525.1302                     |
| power supply                | 24V (battery charger included) | 24V (battery charger included) |
| scrubbing/squeegee width    | 550/800 mm                     | 660/800 mm                     |
| max working capacity        | 2200 m <sup>2</sup> /h         | 2640 m <sup>2</sup> /h         |
| solution tank capacity      | 55 l/14.5 gal                  | 55 l/14.5 gal                  |
| recovery tank capacity      | 55-65 l/14.52-17.17 gal        | 55-65 l/14.52-17.17 gal        |
| traction/traction motor     | automatic/200W                 | automatic/200W                 |
| RPM/pressure on the brushes | 165/30 kg/66 lbs               | 175/33 kg/72 lbs               |
| brush motor power           | 550 W                          | 2 x 400 W                      |
| detergent solution system   | solenoid valve                 | solenoid valve                 |
| depression/vacuum motor     | 1200 mmH <sub>2</sub> O/400 W  | 1200 mmH <sub>2</sub> O/400 W  |
| dimensions/weight           | 128x71x106 cm/106 kg           | 128x71x106 cm/110 kg           |



User friendly analogic control panel. Control lever for brush operation and detergent water outflow. ON/OFF and battery cutout key switch, brush and vacuum motor switch, detergent regulation device. Thermal circuit breaker to protect vacuum motor and brush motor, battery charge level indicator. Hour meter, clean water tank

**Optional accessories:**



- 2 x 0.107.0002  
Tubular battery Pb-acid  
12V 118Ah C5



- 2 x 0.107.0063  
GEL Battery 12 MFP 105  
12V 105Ah C5



- 0.108.0001  
Battery Charger 24V 12A  
220-240/50-60



- 4.508.1178 Polyurethane  
front blade L.830 TH. 3
- 4.508.1177 Polyurethane  
rear blade L.870 TH. 4
- 4.508.1526 Polyurethane  
front blade L.860 TH. 4
- 4.508.1525 Polyurethane  
rear blade L.900 TH. 4

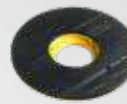
level indicator. Detergent regulation device. Recovery tank drain hose with adjustable flow system. Automatic brush lifting (only model 66BTA).



Automatic detergent dosing system. Fully accessible recovery water tank with visual inspection. Easy access to the recovery tank. Easy access and simple service of the components without use of tools.



- 5.511.1114  
Tynex brush Ø 533 mm-21"
- 5.511.1106  
Tynex brush Ø 330 mm-13" 2x
- 5.511.1794  
PP brush Ø 533 mm-21"
- 5.511.1255  
PP 0,03 brush Ø 330 mm-13"  
2x
- 5.511.1207  
PES brush Ø 533 mm-21"
- 5.511.1202  
PES brush Ø 330 mm-13" 2x



- 5.511.1115  
EWU pad driver Ø 533mm-21"
- 2x 5.511.1107  
EWU pad driver Ø 330mm-13"

Battery trolley for a quick and easy battery change. Big size wheels for better maneuverability and effortless use.



(5 pcs package)

- 6.508.0035 - Ø 533 mm-21"- beige
- 6.508.0042 - Ø 533 mm-21"- green
- 6.508.0049 - Ø 533 mm-21"- black
- 6.508.0030 - Ø 340 mm-13"- beige
- 6.508.0037 - Ø 340 mm-13"- green
- 6.508.0044 - Ø 340 mm-13"- black



### Easy-R



#### Standard equipment:

##### Easy-R 50BT

- 5.511.2167  
PP brush Ø 483 mm - 19"



##### Easy-R 55BT

- 2 x 5.511.1101  
PP brush Ø 275 mm - 10"



##### Easy-R 66BT

- 2 x 5.511.1105  
PP brush Ø 330 mm - 13"



- 4.508.X468  
Front squeegee blade L.830 mm  
Shore 40 Th. 2.5 mm
- 4.508.X467  
Rear squeegee blade L.870 mm  
Shore 40 Th. 3 mm



- Suitable to work for the maintenance and deep cleaning of large areas (up to 2.200 m<sup>2</sup>)
- User friendly control panel: forward speed setting, scrubbing and vacuuming selectors, battery charge indicator, traction direction indicator, key main switch
- Large handle with traction driving lever for forward and backward directions
- Self levelling brush plate
- Cover removable without tools provided with self locking system
- Quick vacuum motor and filter inspection, without tools
- Detergent solution tank with large opening protected by quick locking cap
- Parking brake directly on the wheel
- Non-marking wheels
- Easy squeegee regulation without tools
- Movable shock-proof squeegee
- Hour meter and solenoid valve.



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                             | Easy-R 50BT                  | Easy-R 55BT                  | Easy-R 66BT                  |
|-----------------------------|------------------------------|------------------------------|------------------------------|
| code                        | 8.516.0406                   | 8.516.0407                   | 8.516.0415                   |
| power supply                | 24V                          | 24V                          | 24V                          |
| scrubbing/squeegee width    | 500/800 mm                   | 550/800 mm                   | 660/800 mm                   |
| max working capacity        | 2250 m <sup>2</sup> /h       | 2475 m <sup>2</sup> /h       | 2970 m <sup>2</sup> /h       |
| solution tank capacity      | 67 l/17.70 gal               | 67 l/17.70 gal               | 67 l/17.70 gal               |
| recovery tank capacity      | 75-95 l/20.35-25 gal         | 75-95 l/20.35-25 gal         | 75-95 l/20.35-25 gal         |
| traction/traction motor     | automatic/200W               | automatic/200W               | automatic/200W               |
| RPM/pressure on the brushes | 150/35 kg/77.16 lbs          | 150/45 kg/99.20 lbs          | 150/24 kg/52.91 lbs          |
| brush motor power           | 600 W                        | 600 W                        | 600 W                        |
| detergent solution system   | solenoid valve               | solenoid valve               | solenoid valve               |
| depression/vacuum motor     | 1280 mmH <sub>2</sub> O/400W | 1280 mmH <sub>2</sub> O/400W | 1280 mmH <sub>2</sub> O/400W |
| dimensions/weight           | 135x56x102 cm/101 kg         | 135x56x102 cm/100 kg         | 135x56x102 cm/93 kg          |





User friendly control panel. Speed adjustment selectors. General ON/OFF and key switch, brush and vacuum motor switch. Thermal circuit breaker to protect vacuum motor and brush motor, battery level control, hour meter.

**Optional accessories:**



- 2 x 0.107.0002  
Tubular battery Pb-acid  
12V 118Ah C5



- 2 x 0.107.0063  
GEL Battery 12 MFP 105  
12V 105Ah C5



- 0.108.0001  
Battery Charger 24V 12A  
220-240/50-60



- 5.511.1494  
On-board Battery charger  
kit - 24V - 12A



- 4.508.1178 Polyurethane  
front blade L.830 TH. 3
- 4.508.1177 Polyurethane  
rear blade L.870 TH. 4



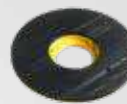
- 5.511.1098 Tynex brush Ø  
483 mm-19"
- 2x 5.511.1102  
Tynex brush Ø 275 mm-10"
- 2x 5.511.1106  
Tynex brush Ø 330 mm-13"



- 5.511.1128  
PP 0,03 brush Ø 483 mm-19"
- 2x 5.511.1254  
PP 0,03 brush Ø 275 mm-10"
- 2x 5.511.1255  
PP 0,03 brush Ø 330 mm-13"



- 5.511.1206  
PES brush Ø 483 mm - 19"
- 2x 5.511.1201  
PES brush Ø 275 mm-10"
- 2x 5.511.1202  
PES brush Ø 330 mm-13"



- 5.511.1099  
EWU pad driver Ø 483mm-19"
- 2x 5.511.1103  
EWU pad driver Ø 275mm-10"
- 2x 5.511.1107  
EWU pad driver Ø 330mm-13"



(5 pcs package)

- 6.508.0034 - Ø 483 mm-19"- beige
- 6.508.0041 - Ø 483 mm-19"- green
- 6.508.0048 - Ø 483 mm-19"- black
- 6.508.0095 - Ø 280 mm-11"- beige
- 6.508.0096 - Ø 280 mm-11"- green
- 6.508.0097 - Ø 280 mm-11"- black
- 6.508.0030 - Ø 340 mm-13"- beige
- 6.508.0037 - Ø 340 mm-13"- green
- 6.508.0044 - Ø 340 mm-13"- black

Easy access to battery and vacuum motor compartment, without using tools. Large tank capacity, at the top in the category (67 l). 2 x 12V -118 Ah C5 batteries to grant long work autonomy, up to 3 hours.



Control lever for brush operation and detergent water outflow. Recovery tank drain hose. Quick fitting battery charger plug.



Heavy duty 15 mm steel monobloc brush plate. Great pressure on the floor for a deep cleaning even on the toughest dirt. Self levelling system. Solenoid valve to stop the detergent water outflow during the work interruptions.



### Midi-R



#### Standard equipment:

##### Midi-R 75BT



- 2 x 5.511.1168  
PP brush Ø 360 mm - 14"



- 4.508.0646  
Front squeegee blade L.925 mm  
Shore 40 Th. 3 mm
- 4.508.0605  
Rear squeegee blade L.1015 mm  
Shore 30 Th. 4 mm

- Capable to work for the maintenance and deep cleaning of large areas (up to 2.600 m<sup>2</sup>)
- User friendly control panel: forward speed setting, scrubbing and vacuuming selectors, battery charge indicator, traction direction indicator, key main switch
- Large handle with traction driving lever for forward and backward directions
- Self levelling brush plate
- Cover removable without tools
- Quick vacuum motor and filter inspection, without tools
- Detergent solution filter
- Detergent solution tank provided with large opening protected by quick locking cap.

|                               | Midi-R 75BT                   |
|-------------------------------|-------------------------------|
| code                          | 8.517.0105                    |
| power supply                  | 24V                           |
| scrubbing/squeegee width      | 750/900 mm                    |
| max working capacity          | 4275 m <sup>2</sup> /h        |
| solution tank capacity        | 88 l/23.25 gal                |
| recovery tank capacity        | 91-95 l/24.04-25 gal          |
| traction type/power           | automatic/300 W               |
| RPM - pressure on the brushes | 150 - 48,5 kg/107.48 lbs      |
| brush motor power             | 1000 W                        |
| detergent solution system     | solenoid valve                |
| depression/vacuum motor       | 1733 mmH <sub>2</sub> O/550 W |
| dimensions/weight             | 133x73x117 cm/150 kg          |



Easy access to battery and vacuum motor compartment, without using tools. Large capacity shock and acid proof polyethylene tanks (88 l) avoid frequent refilling and idle time. 4 x 6V -180 Ah C5 batteries granting continuous working time up to 4-5 hours.

Adjustable speed ensures high precision in cleaning congested areas with obstacles. Intuitive controls reduce operator's training time. Safety thermal breakers prevent motor problems in case of overheating or operator's misuse.



Heavy duty V-shaped squeegee ensures perfect drying of every type of floor, even with large joints. Non-marking wheels avoid marks after the drying. Completely adjustable to fit any surface.

Strong mechanical control levers for heavy duty use. Large size drain hose for a fast emptying and a better cleaning of the recovery tank. Quick fitting battery charger plug.



**Optional accessories:**



- 4 x 0.107.0004 Tubular battery Pb-acid 6V 180Ah C20 + 2 x 5.511.0561 connection cable batteries



- 4 x 0.107.0072 Gel battery 6 MFP 180 6V 180Ah C5 + 2 x 5.511.0561 connection cable batteries



- 0.108.0002 Battery Charger 24V 25A 220-240/50-60



- 5.511.1495 On-board Battery charger kit - 24V - 25A



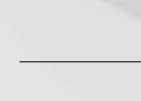
- 4.508.0901 Polyurethane front blade L.925 TH.3 Sh.40
- 4.508.0900 Polyurethane rear blade L.1015 TH.4 Sh.40



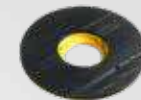
- 2x 5.511.1246 Tynex brush Ø 360 mm-14"



- 2x 5.511.1169 PP 0,03 brush Ø 360 mm-14"



- 2x 5.511.1203 PES brush Ø 360 mm - 14"



- 2x 5.511.1129 EWU pad driver Ø 360 mm-14"



(5 pcs package)

- 6.508.0143 - Ø 380 mm-15" - beige
- 6.508.0144 - Ø 380 mm-15" - green
- 6.508.0141 - Ø 380 mm-15" - black

### Comfort XXS



**CHARGER**  
Only codes  
8.579.0002  
8.579.0011



Only code  
8.579.0002

#### Standard equipment:



• 2 x 5.511.1789  
PP Brush Ø 330 mm - 13"



• 4.508.1619  
Front squeegee blade  
L.960 mm Th. 2,5 mm

• 4.508.1618  
Rear squeegee blade  
L.1000 mm Th. 3 mm



• 0.108.0054  
On-board Battery charger  
24V 20A  
(only for models code:  
8.579.0002 - 8.579.0011)



• 2 x 0.107.0063  
Gel battery 12V 105 A/C  
5/120A C20  
(only for model code:  
8.579.0002)

Designed for the maintenance and deep cleaning of large areas (up to 3200 m<sup>2</sup>.) with a very important reduction of cleaning cost. Very compact size and great maneuverability like walk behind models: suited for maintenance cleaning.

- 32 kg. of constant pressure on the brushes.
- Double counter rotating brush (66 cm of scrubbing width) obtaining better stability and constant pressure.
- Great working autonomy thanks to the possibility to use 4 batteries 6 V 240 Ah and to rear wheel-drive.
- Large load tank capacity (real load of 85 l. ), resulting in reduced numbers of stops and maximum use of battery for effective operation of the machine.
- Ergonomic steering wheel of new design with user friendly controls and digital display.
- Easy access to electrical components.
- Inspection cover for fast and easy cleaning and sanification of dirt water tank.
- Automatic device that stops brushes and detergent water outflow when the machine is stationary.
- Self-levelling brush plate.
- **Automatic detergent dosing system.**



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                              | Comfort XXS 66 BT             | Comfort XXS 66 BT              | Comfort XXS 66 BT                            |
|------------------------------|-------------------------------|--------------------------------|--|
| code                         | 8.579.0001                    | 8.579.0011                     | 8.579.0002                                   |
| power supply                 | 24V                           | 24V (battery charger included) | 24V (batteries and battery charger included) |
| scrubbing/squeegee width     | 660/855 mm                    | 660/855 mm                     | 660/855 mm                                   |
| max working capacity         | 3250 m <sup>2</sup> /h        | 3250 m <sup>2</sup> /h         | 3250 m <sup>2</sup> /h                       |
| solution tank capacity       | 80 l/19.81 gal                | 80 l/19.81 gal                 | 80 l/19.81 gal                               |
| recovery tank capacity       | 80-85 l/19.81-21.13 gal       | 80-85 l/19.81-21.13 gal        | 80-85 l/19.81-21.13 gal                      |
| traction                     | rear wheel-drive/400 W        | rear wheel-drive/400 W         | rear wheel-drive/400 W                       |
| RPM/pressure on the brushes  | 170/32 kg/70.54 lbs           | 170/32 kg/70.54 lbs            | 170/32 kg/70.54 lbs                          |
| brush motor power            | 2 X 400 W                     | 2 X 400 W                      | 2 X 400 W                                    |
| max gradient empty/full tank | 13%/10%                       | 13%/10%                        | 13%/10%                                      |
| depression/vacuum motor      | 1300 mmH <sub>2</sub> O/400 W | 1300 mmH <sub>2</sub> O/400 W  | 1300 mmH <sub>2</sub> O/400 W                |
| dimensions/weight            | 123x63x121 cm/139 kg          | 123x63x121 cm/142 kg           | 123x63x121 cm/217 kg                         |



Great working autonomy thanks to the possibility to use 4 batteries 6 V 180 Ah granting continuous working up. Possibility to use also 2 batteries 12V. Less battery consumption thanks to rear wheel-drive. Large load tanks made of shock and acid proof polyethylene (real load of 85 l.), avoiding frequent stop for refilling.

**Optional accessories:**



- 4 x 0.107.0004  
Tubular battery Pb-acid  
6V 180Ah C20 + 2 x  
5.511.0561 connection cable  
batteries



- 4 x 0.107.0072  
Gel battery 6 MFP 180  
6V 180Ah C5 + 2 x  
5.511.0561 connection cable  
batteries



- 2 x 0.107.0002  
Tubular battery Pb-acid  
12V 118 Ah C5



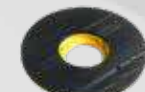
- 0.108.0002  
Battery charger 24V 25A  
220-240/50-60



- 4.508.1594 Polyurethane  
front blade L.960 TH.3 Sh.40
- 4.508.1596 Polyurethane  
rear blade L.1000 TH.4  
Sh.40



- 2 x 5.511.1106  
Tynex brush Ø 330 mm-13"
- 2 x 5.511.1255  
PP 0,03 brush Ø 330 mm-13"
- 2 x 5.511.1202  
PES brush Ø 330 mm - 13"



- 2 x 5.511.1107  
EWU pad driver  
Ø 330 mm-13"



- 6.508.0030 - Ø 340 mm -  
13"- beige (5 pcs.)
- 6.508.0037 - Ø 340 mm -  
13"- green (5 pcs.)
- 6.508.0044 - Ø 340 mm -  
13"- black (5 pcs.)



- 6.505.0062  
Flashing light

User friendly control panel. Steering wheel with digital controls and display. Squeegee and brush plate mechanical and user friendly lifting lever: min. maintenance cost training time for the users. Scrubbing unit with double brush with brush plate made of steel for a great pressure (32 Kg.) on the floor resulting in an easy and deep cleaning of any kind of dirt.



Rear wheel-drive on 2 wheels allows the machine to get over remarkable slopes. Detergent solution is cleansed by an external completely accessible filter, that holds any impurities, thus protecting the solenoid valve. The easy access to all internal components of XXS make it possible to reduce maintenance cost. Detergent tank 2lt.

The comfortable and ergonomic seat allows the operator to work effortless for a long time, improving productivity. Its very compact size make it perfect to work in small areas where walk behind models are usually used. The use of XXS makes working easier and quicker with a huge saving of time.



### Comfort XS-R Essential



#### Standard equipment:



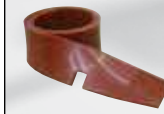
##### Comfort XS-R 75

- 2 x 5.511.1168  
PP brush Ø 360 mm - 14"



##### Comfort XS-R 85

- 2 x 5.511.1688  
PP brush Ø 430 mm - 17"



##### Comfort XS-R 75

- 4.508.0646  
Front squeegee blade L.925 mm  
Shore 40 Th. 3 mm
- 4.508.0605  
Rear squeegee blade L.1015 mm  
Shore 30 Th. 4 mm

##### Comfort XS-R 85

- 4.508.1196  
Front squeegee blade L.1027 mm  
Shore 40 Th. 3 mm
- 4.508.1195  
Rear squeegee blade L.1150 mm  
Shore 33 Th. 4 mm

- Capable to work for the maintenance and deep cleaning of large areas (up to 3.700 m<sup>2</sup>) with a very important reduction of cost of cleaning
- More than 50 kg of constant pressure on the brushes
- Large load tank capacity, resulting in reduced number of stops and maximum use of battery charge for effective operation of the machine
- Compact size (810 mm)
- Stability even when fully loaded, front independent wheeldrive with tight steering radius
- Recovery tank control window for cleaning and easy ordinary maintenance
- Easy access to electrical components
- Automatic device that stops brushes and detergent water outflow when the machine is stationary
- Self-levelling brushes.



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                              | Comfort XS-R 75 Essential    | Comfort XS-R 85 Essential    |
|------------------------------|------------------------------|------------------------------|
| code                         | 8.574.4001                   | 8.574.4003                   |
| power supply                 | 24V                          | 24V                          |
| scrubbing/squeegee width     | 750/900 mm                   | 850/1000 mm                  |
| max working capacity         | 3750 m <sup>2</sup> /h       | 4100 m <sup>2</sup> /h       |
| solution tank capacity       | 110 l/29.05 gal              | 110 l/29.05 gal              |
| recovery tank capacity       | 130-155 l/34.35-40.95 gal    | 130-155 l/34.35-40.95 gal    |
| traction type/power          | front motorwheel/600 W       | front motorwheel/600 W       |
| RPM/pressure on the brushes  | 170/50 kg/110.23 lbs         | 170/50 kg/110.23 lbs         |
| brush motor power            | 2 x 400 W                    | 2 x 400 W                    |
| max gradient empty/full tank | 13%/10%                      | 13%/10%                      |
| depression/vacuum motor      | 1300 mmH <sub>2</sub> O/400W | 1300 mmH <sub>2</sub> O/400W |
| dimensions/weight            | 146x81x138 cm/184 kg         | 146x81x138 cm/187 kg         |



The detergent water tank serves as battery compartment, allowing the housing of great capacity batteries granting continuous working time up . Large capacity shock and acid proof polyethylene tank (110 l) improves productivity avoiding frequent refilling and idle time.

Simple and intuitive controls reduce operator's training time. Easy mechanical brush plate and squeegee lifting system, for low maintenance costs. The enbloc brush plate apply a very high pressure (50 kg) to the floor, strongly and deeply removing any kind of dirt.



New control panel with digital controls and display. Digital display: with hour meter, battery charge level indicator, empty water tank level indicator, forward/reverse traction indicator. Speed control adjustment, horn, suction motor switch with delayed switch-off, brush plate lifting/lowering selector switch, brush motor switch.



The ergonomic and comfortable shape of the machine allows the operator to work effortless for a long time, improving productivity.



**Optional accessories:**



- 4 x 0.107.0004  
Tubular battery Pb-acid  
6V 180Ah C5



- 4 x 0.107.0072  
GEL Battery 6 MFP 180  
6V 180Ah C5



- 0.108.0002  
Battery Charger 24V 25A  
220-240/50-60



- 5.511.1641  
On-board Battery charger  
kit - 24V - 20A



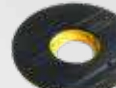
- 4.508.0901 Polyurethane  
front blade L.925 TH.3 Sh.40
- 4.508.0900 Polyurethane  
rear blade L.1015 TH.4 Sh.40
- 4.508.1251 Polyurethane  
front blade L.1027 TH.3
- 4.508.1252 Polyurethane  
rear blade L.1150 TH.4



- 2x 5.511.1246  
Tynex brush Ø 360 mm-14"
- 2x 5.511.1169  
PP 0,03 brush Ø 360 mm-14"
- 2x 5.511.1203  
PES brush Ø 360 mm - 14"



- 2x 5.511.1713  
Tynex brush Ø 430 mm-17"
- 2x 5.511.1711  
PP 0,03 brush Ø 430 mm-17"
- 2x 5.511.1712  
PES brush Ø 430 mm - 17"



- 2x 5.511.1592  
EWU pad driver Ø 380 mm-15"
- 2x 5.511.1095  
EWU pad driver Ø 430 mm-17"



- 6.508.0143 - Ø 380 mm -  
15"- beige (5 pcs.)
- 6.508.0144 - Ø 380 mm -  
15"- green (5 pcs.)
- 6.508.0141 - Ø 380 mm -  
15"- black (5 pcs.)
- 6.508.0032 - Ø 430 mm -  
17"- beige (5 pcs.)
- 6.508.0039 - Ø 430 mm -  
17"- green (5 pcs.)
- 6.508.0046 - Ø 430 mm -  
17"- black (5 pcs.)

### Comfort XS-R Up



- Capable to work for the maintenance and deep cleaning of large areas (up to 4.000 m<sup>2</sup>) with a considerable reduction of cleaning costs
- More than 50 kg of constant pressure on the brushes
- Large load tank capacity, resulting in reduced number of stops and maximum use of battery charge for effective operation of the machine
- Compact size (810 mm)
- Stability even when fully loaded, front independent wheeldrive with tight steering radius
- Recovery tank control window for cleaning and easy ordinary maintenance
- Automatic brush plate lifting system
- Automatic squeegee lifting system
- Automatic squeegee lifting while reverse going
- Automatic device that stops brushes and detergent water outflow when the machine is stationary
- Antifoam device
- Self-levelling brushes
- Integrated on-board battery charger (only for model code: 8.574.4101 - 8.574.4103).

#### Standard equipment:



#### Comfort XS 75 Up

- 2 x 5.511.1168  
PP brush Ø 360 mm - 14"



#### Comfort XS 85 Up

- 2 x 5.511.1688  
PP brush Ø 430 mm - 17"



#### Comfort XS 75 Up

- 4.508.0646  
Front squeegee blade L.925 mm  
Shore 40 Th. 3 mm
- 4.508.0605  
Rear squeegee blade L.1015 mm  
Shore 30 Th. 4 mm

#### Comfort XS 85 Up

- 4.508.1196  
Front squeegee blade L.1027 mm  
Shore 40 Th. 3 mm
- 4.508.1195  
Rear squeegee blade L.1150 mm  
Shore 33 Th. 4 mm



- 0.108.0054  
On-board Battery charger  
24V 20A  
(only for model code:  
8.574.4101 - 8.574.4103)



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

|                              | Comfort XS-R 75 Up             | Comfort XS-R 85 Up           | Comfort XS-R 85 Up             |
|------------------------------|--------------------------------|------------------------------|--------------------------------|
| code                         | 8.574.4101                     | 8.574.4114                   | 8.574.4103                     |
| power supply                 | 24V (battery charger included) | 24V                          | 24V (battery charger included) |
| scrubbing/squeegee width     | 750/900 mm                     | 850/1000 mm                  | 850/1000 mm                    |
| max working capacity         | 3750 m <sup>2</sup> /h         | 4100 m <sup>2</sup> /h       | 4100 m <sup>2</sup> /h         |
| solution tank capacity       | 110 l/29.05 gal                | 110 l/29.05 gal              | 110 l/29.05 gal                |
| recovery tank capacity       | 130-155 l/34.35-40.95 gal      | 130-155 l/34.35-40.95 gal    | 130-155 l/34.35-40.95 gal      |
| traction type/power          | front motorwheel/600 W         | front motorwheel/600 W       | front motorwheel/600 W         |
| RPM/pressure on the brushes  | 170/50 kg/110.23 lbs           | 170/50 kg/110.23 lbs         | 170/50 kg/110.23 lbs           |
| brush motor power            | 2 x 400 W                      | 2 x 400 W                    | 2 x 400 W                      |
| max gradient empty/full tank | 13%/10%                        | 13%/10%                      | 13%/10%                        |
| depression/vacuum motor      | 1300 mmH <sub>2</sub> O/400W   | 1300 mmH <sub>2</sub> O/400W | 1300 mmH <sub>2</sub> O/400W   |
| dimensions/weight            | 146x81x138 cm/189 kg           | 146x81x138 cm/195 kg         | 146x81x138 cm/195 kg           |





The easy access to the recovery tank allows fast cleaning and sanitification of the tank; the tilting tank together with a large size drain hose allow the complete emptying of the tank and the removal of any type of solid dirt. The antifoam device protects suction motor, as well as the electronic floating switch that stops suction when the tank is full.

**Optional accessories:**



- 4 x 0.107.0004  
Tubular battery Pb-acid  
6V 180Ah C5



- 4 x 0.107.0072  
GEL Battery 6 MFP 180  
6V 180Ah C5



- 4.508.0901 Polyurethane  
front blade L.925 TH.3 Sh.40
- 4.508.0900 Polyurethane  
rear blade L.1015 TH.4 Sh.40
- 4.508.1251 Polyurethane  
front blade L.1027 TH.3
- 4.508.1252 Polyurethane  
rear blade L.1150 TH.4



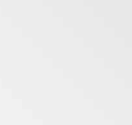
- 2x 5.511.1246  
Tynex brush Ø 360 mm-14"
- 2x 5.511.1169  
PP 0,03 brush Ø 360 mm-14"
- 2x 5.511.1203  
PES brush Ø 360 mm - 14"



- 2x 5.511.1713  
Tynex brush Ø 430 mm-17"
- 2x 5.511.1711  
PP 0,03 brush Ø 430 mm-17"
- 2x 5.511.1712  
PES brush Ø 430 mm - 17"



- 2x 5.511.1592  
EWU pad driver Ø 380 mm-15"
- 2x 5.511.1095  
EWU pad driver Ø 430 mm-17"



- 6.508.0143 - Ø 380 mm -  
15"- beige (5 pcs.)
- 6.508.0144 - Ø 380 mm -  
15"- green (5 pcs.)
- 6.508.0141 - Ø 380 mm -  
15"- black (5 pcs.)
- 6.508.0032 - Ø 430 mm -  
17"- beige (5 pcs.)
- 6.508.0039 - Ø 430 mm -  
17"- green (5 pcs.)
- 6.508.0046 - Ø 430 mm -  
17"- black (5 pcs.)

Comfort XS-R Up is equipped with actuators for the automatic lifting of the brush plate and squeegee. New control panel with digital controls and display. Digital display: with hour meter, battery charge level indicator, empty water tank level indicator and forward/reverse traction indicator. Speed control adjustment, horn, suction motor



switch with delayed switch-off, brush plate lifting/lowering selector switch, brush motor switch. All motors are protected by thermal breakers. The detergent water tank serves as battery compartment, allowing the housing of great capacity batteries. Battery charger and suction motor are placed the recovery tank; the housing of the

vacuum motor allows to drastically reduce the operating noise. The ergonomic and comfortable shape of the machine allows the operator to work effortless for a long time, improving productivity. Thanks to the compact dimensions the machine can work with agility even in narrow spaces.



### Comfort S-R



#### Standard equipment:



- 2 x 5.511.1845  
PP brush Ø 457 mm - 18"



- 4.508.1196  
Front squeegee blade L.1027 mm  
Shore 40 Th. 3 mm

- 4.508.1195  
Rear squeegee blade L.1150 mm  
Shore 33 Th. 4 mm

- Suitable for maintenance and deep cleaning of medium and large areas (up to 4.500 m<sup>2</sup>) with a considerable reduction of cleaning costs
- More than 50 kg of constant pressure on the brushes
- Large load tank capacity, resulting in reduced number of stops and maximum use of battery charge for effective operation of the machine
- Stability even when fully loaded
- Front independent wheel-drive with tight steering radius
- Easy access to electrical components
- Automatic brush plate lifting system
- Automatic squeegee lifting system
- Automatic squeegee lifting while reverse going
- Automatic device that stops brushes and detergent water outflow when the machine is stationary
- Antifoam device
- Self-levelling brushes
- High-performance batteries resulting in high-working efficiency.



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Comfort S-R 90

|                              |                              |
|------------------------------|------------------------------|
| code                         | 8.575.0010                   |
| power supply                 | 24V                          |
| scrubbing/squeegee width     | 900/1000 mm                  |
| max working capacity         | 6200 m <sup>2</sup> /h       |
| solution tank capacity       | 140 l/36.99 gal              |
| recovery tank capacity       | 150-180 l/39.6-47 gal        |
| traction type/power          | front motorwheel/1000 W      |
| RPM/pressure on the brushes  | 150/50 kg/176 lbs            |
| brush motor power            | 1250 W                       |
| max gradient empty/full tank | 10%/7%                       |
| depression/vacuum motor      | 1734 mmH <sub>2</sub> O/550W |
| dimensions/weight            | 180x103x150 cm/264 kg        |



Quick lock recovery tank cap allows for fast and easy cleaning and sanitization of the tank; the tilting tank together with a large size drain hose allow the complete emptying of the tank and the removal of any type of solid dirt. The antifoam device protects suction motor, as well as the electronic floating switch that stops suction when the tank is full.

**Optional accessories:**



• 0.107.0008  
Battery box Pb-acid  
24V 500Ah C5

• 0.107.0011  
Gel battery box  
24V 400Ah C5



• 0.108.0003  
Battery Charger 24/36V  
50/60A - 220-240/50-60

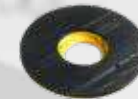
Comfortable steering wheel.  
User friendly control panel, provided with hour meter, speed adjustment knob and detergent solution low level warning light.  
All motors are protected by thermal breakers.



• 4.508.1251 Polyurethane front blade L.1027 TH. 3  
• 4.508.1252 Polyurethane rear blade L.1150 TH. 4



• 2x 5.511.1848  
Tynex brush Ø 457 mm-18"  
• 2x 5.511.1849  
PP 0,03 brush Ø 457 mm-18"  
• 2x 5.511.1847  
PES brush Ø 457 mm-18"



• 2x 5.511.1850  
EWU pad driver Ø 457 mm-18"



• 6.508.0150 - Ø 457 mm-18" - beige (5 pcs.)  
• 6.508.0151 - Ø 457 mm-18" - green (5 pcs.)  
• 6.508.0142 - Ø 457 mm-18" - black (5 pcs.)



50 kg of continuous brush plate pressure with Self Leveling System to strongly and deeply removing any kind of dirt on any kind of floor.  
Strong oil-proof polyurethane wheels.  
500 Ah C5 battery box allowing continuous working time up to 5 hours.

Built with strong components, Comfort S-R have been designed to resist even to extreme stresses; the frame is made of steel profiles with a thickness varying from 5 to 12 mm, protected with a high resistance corrosion-proof paint.



### Comfort M



#### Standard equipment:



- 2 x 5.511.1097  
PP brush Ø 483 mm - 19"



- 4.508.0217  
Front squeegee blade L.1270 mm  
Shore 40 Th. 4 mm
- 4.508.0216  
Rear squeegee blade L.1345 mm  
Shore 33 Th. 6 mm

- Suitable for maintenance and deep cleaning of medium and large areas (up to 6.000 m<sup>2</sup>)
- More than 90/120 kg of constant pressure on the brushes
- Large load tank capacity, resulting in reduced number of stops and maximum use of battery charge for effective operation of the machine
- Stability even when fully loaded
- Front independent wheel-drive with tight steering radius
- Easy access to electrical components
- Automatic brush plate lifting system
- Automatic squeegee lifting system
- Automatic squeegee lifting while reverse going
- Automatic control system for brush rotation and detergent water outflow
- Antifoam device
- Self-levelling brush plate
- Hour meter
- High-performance batteries resulting in high-working efficiency.



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Comfort M 102

|                              |                               |
|------------------------------|-------------------------------|
| code                         | 8.578.0004                    |
| power supply                 | 36V                           |
| scrubbing/squeegee width     | 1020/1250 mm                  |
| max working capacity         | 7140 m <sup>2</sup> /h        |
| solution tank capacity       | 200 l/52.84 gal               |
| recovery tank capacity       | 210-240 l/55.5-63.4 gal       |
| traction type/power          | front motorwheel/900 W        |
| RPM/pressure on the brushes  | 150/120 kg/246 lbs            |
| brush motor power            | 1500 W                        |
| max gradient empty/full tank | 10%/8%                        |
| depression/vacuum motor      | 1800 mmH <sub>2</sub> O/550 W |
| dimensions/weight            | 190x112x145 cm/342 kg         |



The unique anti foam device dramatically reduces the foam generation and prevents it from touching the suction motor, thus protecting its operation. The electronic floating switch stops suction when the tank is full. Large tank opening for fast and easy cleaning and sanification.

The strong V-shaped floor squeegee made of steel profile is widely adjustable and allows to combine the operation of the rubber blades with the high suction power, to get a perfect drying result on every surface. The special filter box retains solid debris and prevents the obstruction of the suction hose.



**Optional accessories:**



• 0.107.0009  
Battery box Pb-acid  
36V 360Ah C5

• 0.107.0012  
Gel battery box  
36V 320Ah C5



• 0.108.0003  
Battery Charger 24/36V  
50/60A - 220-240/50-60



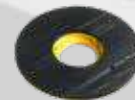
• 4.508.1167 Polyurethane  
front blade L.1270 TH. 4  
• 4.508.0897 Polyurethane  
rear blade L.1345 TH. 6



•2x 5.511.1098  
Tynex brush Ø 483 mm-19"

•2x 5.511.1128  
PP 0,03 brush Ø 483 mm-19"

•2x 5.511.1206  
PES brush Ø 483 mm - 19"



•2x 5.511.1099  
EWU pad driver Ø 483 mm-19"



• 6.508.0034 - Ø 483 mm -  
19"- beige (5 pcs.)  
• 6.508.0041 - Ø 483 mm -  
19"- green (5 pcs.)  
• 6.508.0048 - Ø 483 mm -  
19"- black (5 pcs.)



Comfort M scrubbers are easy to use thanks to the simple and user friendly controls. From the control panel the operator can adjust the maximum forward speed and the quantity of cleaning solution outflow, selecting the options most suitable to the dirt type. Job is simplified and made faster by the automatic lifting of the squeegee and of the brush plate.

Thanks to the optimal weight distribution and to the use of strong oil-proof polyurethane wheels the drive is perfect in all working conditions. The emptying of the solution water tank is quick with a simple and easy accessible mechanical tap.



### Comfort L



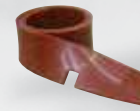
**STOP**  
**LEVEL**



#### Standard equipment:



- 3 x 5.511.1109  
PP brush Ø 406 mm - 16"



- 4.508.0219  
Front squeegee blade L.1500 mm  
Shore 40 Th. 4 mm
- 4.508.0218  
Rear squeegee blade L.1580 mm  
Shore 33 Th. 6 mm

- Suitable for maintenance and deep cleaning of medium and large areas (up to 7.000 m<sup>2</sup>)
- More than 120-170 kg of constant pressure on the brushes
- 300 litres solution tank capacity allows exceptional autonomy and productivity
- Stability even when fully loaded
- Innovative traction system with three independent motor wheels controlled by electronic cards
- Easy access to electrical components Automatic brush plate lifting system
- Automatic squeegee lifting system
- Automatic squeegee lifting while reverse going
- Automatic control system for brush rotation and detergent water outflow
- Antifoam device
- Self-levelling brushes, hour meter, solenoid valve. High-performance batteries resulting in high-working efficiency.

#### Comfort L 122

|                              |                               |
|------------------------------|-------------------------------|
| code                         | 8.572.0002                    |
| power supply                 | 36V                           |
| scrubbing/squeegee width     | 1220/1450 mm                  |
| max working capacity         | 8540 m <sup>2</sup> /h        |
| solution tank capacity       | 280 l/73.97 gal               |
| recovery tank capacity       | 315-340 l/83.2-89 gal         |
| traction type/power          | 3-wheels drive/3 x 600 W      |
| RPM/pressure on the brushes  | 150/170 kg/374 lbs            |
| brush motor power            | 3 x 1000 W                    |
| max gradient empty/full tank | 10%/8%                        |
| depression/vacuum motor      | 1800 mmH <sub>2</sub> O/600 W |
| dimensions/weight            | 222x130x169 cm/607 kg         |



Designed to perform the hardest work and to resist even to extreme stresses with maximum comfort; the frame is made of steel profiles with a thickness varying from 5 to 12 mm, protected with a high resistance corrosion-proof paint.

**Optional accessories:**



- 0.107.0010 Battery box Pb-acid 36V 525 Ah C5
- 0.107.0013 Gel battery box 36V 400 Ah C5



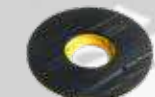
- 0.108.0003 Battery Charger 24/36V 50/60A - 220-240/50-60



- 4.508.1167 Polyurethane front blade L.1270 TH. 4
- 4.508.0897 Polyurethane rear blade L.1345 TH. 6



- 3x 5.511.1110 Tynex brush Ø 406 mm-16"
- 3x 5.511.1120 PP 0,03 brush Ø 406 mm-16"
- 3x 5.511.1204 PES brush Ø 406 mm - 16"



- 3x 5.511.1111 EWU pad driver Ø 406 mm-16"



- 6.508.0031 - Ø 406 mm - 16" - beige (5 pcs.)
- 6.508.0038 - Ø 406 mm - 16" - green (5 pcs.)
- 6.508.0045 - Ø 406 mm - 16" - black (5 pcs.)

The unique anti foam device dramatically reduces the foam generation and prevents it from touching the suction motor, thus protecting its operation. The electronic floating switch stops suction when the tank is full. Large tank opening for fast and easy cleaning and sanification.



The cleaning solution tank with an exceptional capacity of 300 liters and the high autonomy of the battery ensure a productivity at the top of the range. The wide rear opening allows for an easy and quick refilling of the cleaning solution tank.

The motorwheels, designed and built by Lavor, grant optimal performances and exceptional reliability (over 30.000 hours). The innovative three-wheel drive system ensures perfect traction in every operating condition. The high power of the three motorwheels allows the machine to get over remarkable slopes.



### Is it better a petrol engine driven or a battery powered model?

The use of a petrol engine implies the presence of exhaust gasses and therefore the machine must be used only in outside areas or in areas where the operator is not exposed at such risk. The battery models can be used also inside. From the technical and qualitative point of view the sweepers do exactly the same cleaning task, but the petrol engine machine can work nonstop (it is only necessary to fill up the tank with petrol), while the electric models, once the battery is empty, need to be re-charged (an average of 8-10 hours of charge, if battery is completely worn-out)

### How should the brush be?

In the sweepers, there are two types of bushes: the first one rotates with a perpendicular axle to the floor (this is the one called "side brush"), it is useful to move dirt into the collecting area and to reach dirt near borders or under edges; the second one rotates with a parallel axle to the floor (this is the one called "main brush"); it rotates counterclockwise (opposite) to the forward direction of machine and collects dirt into the collection tank. The brushes differ in the shape (round flat the "side brush" and cylindrical the "main brush"), in the type of bristles (the way bristles are arranged on the brush body), in the body material (that accordingly to options, provides resistance still in humid environment or competitive construction) and in the bristle material/diameter/shape. Generally, the stiffer and rougher the bristles are, the better they collect the heaviest dirt adherent to the floor (typically

wet leaves). The more flexible and thinner the bristles are, the better they collect light and thin dirt. To have a better scraping action, it is necessary to add steel bristle to the PP ones. To collect very thin dirt, it is necessary to use only short round PP bristles. As a consequence of motorization (petrol engine or electric one) and so of indoor or outdoor use, the walk behind models have stiffer or softer bristles, to adapt in best way possible to the type of dirt typically found in the working area.

### How long do battery charges last?

It is impossible to determine exactly how long a battery charge lasts.

Battery autonomy changes depending on type of surface, dirt quantity, brush type and way in which traction system is used (speed and slope).

Battery life is made up of number of charge cycles (also incomplete), if use conditions, charge and service are perfectly observed.

Manufacturing technology diversifies numbers of cycles, service needed, use/charge conditions and performances.

### Which kind of battery technology?

Batteries have different prices and so it is important to know their features in order to choose the best one as far as the operator's needs or habits are

concerned.

They divide into two families according to the necessity of recurrent acid solution refilling.

Acid lead batteries (Pb-Acid), need refilling, because during the charge cycle a lot

of gasses are generated (for this reason a specific and aired room is necessary for safe working) and the solution vaporizes: it is necessary to add distilled water before the submerged lead parts that are no more covered with water begin to oxidize (compromised efficiency).

VRLA batteries (Valve Regulated Lead Acid) are airtight, this means that gasses generated during the charge cycle are rearranged inside the battery: refilling is not necessary, it is possible to charge them in any room and they can be carried without risk.





Acid lead batteries divide themselves into categories depending on the thickness of plate they are built of: if the plate is plane, the resistance to discharge is lower and few charge cycles are necessary, if the plate is tubular (or armed, recognizable opening the battery cap and verifying that the plate is made up of a lot of cylinders side by side instead of a thin leaf sheet) there is a higher resistance to discharge and to charge cycles.

VRLA batteries divide themselves depending on the condition (liquid or gel) of the acid solution (that enables energy exchange) and on the way it is kept inside the battery: if it is liquid and kept by a spongy and filamentous material, the battery is called AGM; if it is a gel solution inside a membrane, the battery is called GEL battery. On the market there are a lot of products completely different in features and value and it is very important to know the manufacturing details to couple the right battery charger (it is not sure that any battery charger is suited and get a better result than the ones in our range that are specific for our batteries) and to come up to the working expectations.

Whatever technology may be it is important to know that batteries have a common effect of self discharge (different for each type of manufacturing technology) and so it is important a recurrent charge (each three months approximately) if they are unused for long periods of time. Batteries suffer from incomplete charge cycle (except "pure lead" technology) and so it is necessary to charge them at the end of the working day (our battery charger is going to supply only the necessary energy and the charge cycle is going to finish earlier). It is also important not to cut off the charge before the battery charger has finished the cycle (green light). Respecting these simple rules, the best result and the best machine output will be obtained.



- **Belt drive**

The circular section grants a high resistance, stillness, reliability and it doesn't need service.



- **Side brush exclusion**

It is a system protecting bristles during machine stop or whenever it is not necessary to use it.



- **Dust vacuum system**

It can be found in the main brush area. Together with the mechanical action, it conveys waste and dust that are collected into the tank through the right filters supplied.



- **Front dust vacuum system**

As well as traditional vacuum system, a vacuum system can be found in the lateral brush/es collection area. Dust dispersion outside the machine is limited also before the main collection area is reached.



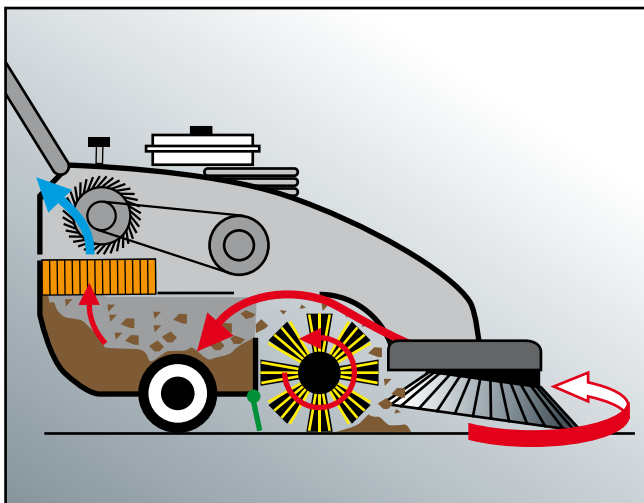
- **Flap raise system**

The main brush collection area is delimited by protections (flaps) touching the ground, better vacuum effect. With a big residual is possible to raise the flap collecting it rather than keep going pushing it on the floor.



- **Filter shaker**

It clears filter from dust without touching it or opening the sweeper; the vacuum efficiency is kept at max, granting the best comfort and output for the user.





BSW 375 ET   BSW 651 M   SWL 700 ET   SWL 700 ST   SWL 900 ET   SWL 900 ST   SWL R 1000 ET   SWL R 1000 ST   SWL R 1000 ET Bin-Up   SWL R 1000 ST Bin-Up   SWL R 1100 ET   SWL R 1100 ST   SWL R 1100 ET Bin-Up   SWL R 1100 ST Bin-Up

| Référence  | Modèle              | Page | Type           | Traction   | Brosse central<br>mm/inc | Brosse central + 1 lateral<br>mm/inc | Brosse central + 2 lateral<br>mm/inc | Capacité du bac de rangement<br>lt/gal | Rendement théorique (maxi)<br>m2/foot2 | Emballage<br>L x l x H<br>cm/inc | Poids brut<br>kg | Poids brut<br>lbs | Pièces par palette<br>n° |
|------------|---------------------|------|----------------|------------|--------------------------|--------------------------------------|--------------------------------------|--|--|----------------------------------|------------------|-------------------|--------------------------|
| 0.064.0001 | BSW 375 ET          | 163  | electric       | Manual     | 350/13,78                | -                                    | 375/14,76                            | 2/0,52                                 | 1000/10764                             | 30x36x11/11x13x4                 | 2,8              | 6,16              | 48                       |
| 0.042.0101 | BSW 651 M           | 164  | manual         | Manual     | 500/19,68                | 700/27,56                            | -                                    | 40/10,58                               | 1500/16146                             | 79x76x46/31x29x18                | 25               | 55                | 5                        |
| 0.061.0001 | SWL 700 ET          | 165  | electric       | Mechanical | 510/20,08                | 680/26,77                            | -                                    | 45/11,89                               | 2620/28201                             | 126x63x85/50x25x34               | 78               | 172               | 1                        |
| 0.061.0002 | SWL 700 ST          | 165  | gasoline motor | Mechanical | 510/20,08                | 680/26,77                            | -                                    | 45/11,89                               | 2620/28201                             | 126x63x85/50x25x34               | 77               | 169               | 1                        |
| 0.061.0003 | SWL 900 ET          | 166  | electric       | Mechanical | 710/27,95                | 880/34,64                            | -                                    | 60/15,85                               | 3700/39826                             | 126x83x85/50x33x34               | 89               | 196               | 1                        |
| 0.061.0004 | SWL 900 ST          | 166  | gasoline motor | Mechanical | 710/27,95                | 880/34,64                            | -                                    | 60/15,85                               | 3700/39826                             | 126x83x85/50x33x34               | 97               | 213               | 1                        |
| 0.061.0006 | SWL R 1000 ET       | 167  | electric       | hydraulic  | 700/27,56                | 920/36,22                            | 1230/48,42                           | 90/16,38                               | 6200/66735                             | 143x91x114/56x36x45              | 260              | 572               | 1                        |
| 0.061.0007 | SWL R 1000 ST       | 167  | gasoline motor | hydraulic  | 700/27,56                | 920/36,22                            | 1230/48,42                           | 90/16,38                               | 8280/89124                             | 143x91x114/56x36x45              | 300              | 660               | 1                        |
| 0.061.0008 | SWL R 1000 ET BINUP | 168  | electric       | hydraulic  | 700/27,56                | 920/36,22                            | 1230/48,42                           | 90/16,38                               | 6200/66735                             | 163x91x114/66x36x45              | 310              | 682               | 1                        |
| 0.061.0030 | SWL R 1000 ET BINUP | 168  | electric       | hydraulic  | 700/27,56                | 920/36,22                            | 1230/48,42                           | 90/16,38                               | 6200/66735                             | 163x91x114/66x36x45              | 310              | 682               | 1                        |
| 0.061.0009 | SWL R 1000 ST BINUP | 168  | gasoline motor | hydraulic  | 700/27,56                | 920/36,22                            | 1230/48,42                           | 90/16,38                               | 8280/89124                             | 163x91x114/66x36x45              | 350              | 770               | 1                        |
| 0.061.0036 | SWL R 1100 ET       | 169  | electric       | hydraulic  | 800/31,50                | 1050/41,34                           | 1300/51,18                           | 150/30                                 | 9700/104409                            | 160x101x130/65x43x52             | 375              | 825               | 1                        |
| 0.061.0033 | SWL R 1100 ST       | 169  | Diesel motor   | hydraulic  | 800/31,50                | 1050/41,34                           | 1300/51,18                           | 150/30                                 | 9700/104409                            | 160x101x130/65x43x52             | 434              | 955               | 1                        |
| 0.061.0043 | SWL R 1100 ET BINUP | 170  | electric       | hydraulic  | 800/31,50                | 1050/41,34                           | 1300/51,18                           | 150/30                                 | 9700/104409                            | 160x101x130/65x43x52             | 375              | 825               | 1                        |
| 0.061.0041 | SWL R 1100 ST BINUP | 170  | Diesel motor   | hydraulic  | 800/31,50                | 1050/41,34                           | 1300/51,18                           | 150/30                                 | 9700/104409                            | 160x101x130/65x43x52             | 434              | 955               | 1                        |



**BSW 375 ET**



Space-saving storage position.

**Equipped with:**

- Industrial battery-powered sweeper for the quick, quiet and cordless intermediate cleaning of all surfaces, indoor and outdoor.
- Ideal for entryways of all kinds, hallways, staircases, driveways, warehouse and office areas, airports and train stations.
- Equipped with two batteries, the operation time lengthens to 90 minutes.
- The powerful Lithium-Ion battery (without memory effect) with 10.8 V and 1.5 Ah allows an operation time of approx. 45 minutes per battery.
- Second battery can be directly stored and carried on the machine itself.
- Quick-charging unit with a charging time of only 70 minutes is included with purchase.
- Large foot pedal for activation without bending over.
- Main cylinder brush and side brushes can be replaced without tools.
- Aluminum telescopic handle for an optimum work position.
- Traceless wheels.
- Enormous waste collection tray with 2 liter capacity.
- Changeable bristled rim on the underside of the housing.
- Low noise volume, and therefore excellent for use during business hours.
- Compact, light, and easy-to-handle for any user.

**Standard accessories:**



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

**BSW 375 ET**

|                                 |   |
|---------------------------------|---|
| code                            | 0.064.0001                                      |
| main brush + 2 side brush width | 375mm/14,76 inc                                 |
| collector tank                  | 2 li/0,52 gal                                   |
| max working capacity            | 1000 m <sup>2</sup> /h-10764 ft <sup>2</sup> /h |
| Operating voltage               | 10,8V/1,5 Ah                                    |
| Max. Power                      | 25 W  |
| Voltage (charging unit)         | 230 V~50 Hz                                     |
| dimension/weight                | 30x36x70cm/2,8 kg                               |

### BSW 651 M



#### Standard accessories:



0.942.0050 PP



0.942.0052 PP

#### Optional:

0.942.0079 Mixed steel side brush



#### Equipped with:

- Ideal for small and medium surfaces • Easy handling • Wide collector tank with safety lock
- Side brush lifting • Main brush pressure regulation • Separate side brush • Adjustable working load on the brush • Tilting handle • 360° front wheel • Die casting brush arm
- Traceless wheels • Shock proof frame • Hourly efficiency (max) 1500 m<sup>2</sup>/h. • Working area (1 side brush) 500-700 mm.

|                                 | BSW 651 M   |
|---------------------------------|---|
| code                            | 0.042.0101  |
| main brush width                | 500mm / 19,68 inc                                 |
| main brush + 1 side brush width | 700mm / 27,56 inc                                 |
| collector tank/emptying system  | 40 lt -10,58 gal / manual                         |
| max working capacity            | 1500 m <sup>2</sup> /h - 16146 ft <sup>2</sup> /h |
| traction                        | manual  |
| brushes transmission            | elastic belt                                      |
| pressure on the brushes         | adjustable  |
| side brush                      | lifting arm system                                |
| dust-laying system              | direct  |
| frame material                  | steel   |
| dimension / weight              | 79 x 76 x 46 cm/25 kg                             |



**ELECTRIC  
FILTER SHAKER**  
(electric version)

**SWL 700 ST**



**Standard accessories:**



0.961.0008  
PP SWL 700 ET

0.961.0012  
PP-Mixed steel  
SWL 700 ST



0.961.0005 PP



0.961.0001  
paper filter 14 µm



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

**Equipped with:**

- Ideal for medium and large surfaces
- Large filter surface with electric filter shaker (ET model)
- Manual filter shaker (ST model)
- Side brush raising control
- Suction switch off
- Flap raise system
- Panel filter in horizontal position
- Main brush pressure regulation
- Indirect back collection
- Quick main brush release
- Long life elastic belts
- Reclining handle
- Suction selection lever. Traction lever.
- Antistatic device. Wide collector tank
- Heavy duty steel frame
- Side brush mechanical engagement
- Battery and battery charger not included.

**SWL 700 ET**



**Optional:**



0.961.0028 Side  
brush protection



0.961.0016  
PE panel filter  
5µm



0.961.0018  
HEPA panel  
filter



Batteries



Battery charger

• 0.961.0026 Trolley for collector  
tank set

|                                 | SWL 700 ET                                      | SWL 700 ST                                      |
|---------------------------------|---|---|
| code                            | 0.061.0001                                      | 0.061.0002                                      |
| main brush width                | 510mm / 20,08 inc                               | 510mm / 20,08 inc                               |
| main brush + 1 side brush width | 680mm / 26,77 inc                               | 680mm / 26,77 inc                               |
| collector tank                  | 45 lt / 11,89 gal                               | 45 lt / 11,89 gal                               |
| max working capacity            | 2620 m <sup>2</sup> /h-28201 ft <sup>2</sup> /h | 2620 m <sup>2</sup> /h-28201 ft <sup>2</sup> /h |
| traction                        | mechanical                                      | mechanical                                      |
| max speed                       | 4 km/h-2,49 mile/h                              | 4 km/h-2,49 mile/h                              |
| motor type / power              | 12V / 400W                                      | Honda 4 HP / 2,9kW                              |
| filtering surface               | 2 m <sup>2</sup> / 21,53 ft <sup>2</sup>        | 2 m <sup>2</sup> / 21,53 ft <sup>2</sup>        |
| pressure on the brushes         | adjustable                                      | adjustable                                      |
| filter shaker                   | electric  | manual  |
| dimension / weight              | 126x63x85cm / 78kg                              | 126x63x85cm / 77kg                              |

### SWL 900 ET

**ELECTRIC  
FILTER SHAKER**  
(electric version)



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)



#### Standard accessories:



0.961.0009  
PP SWL 900 ET

0.961.0013  
PP-Mixed steel  
SWL 900 ST



0.961.0005 PP



0.961.0002  
paper filter 14 µm

#### Optional:



0.961.0028 Side  
brush protection



0.961.0017  
PE panel filter  
5µm



0.961.0019  
HEPA panel  
filter



Batteries



Battery charger

• 0.961.0027 Trolley for collector  
tank set

#### Equipped with:

- Ideal for medium and large surfaces • Large filter surface with electric filter shaker (ET model) • Manual filter shaker (ST model) • Side brush raising control • Suction switch off
- Flap raise system • Panel filter in horizontal position • Main brush pressure regulation • Indirect back collection • Quick main brush release • Long life elastic belts • Reclining handle
- Suction selection lever • Traction lever • Antistatic device
- Wide collector tank • Heavy duty steel frame • Side brush mechanical engagement • Battery and battery charger not included.

### SWL 900 ST



|                                 | SWL 900 ET                                     | SWL 900 ST                                     |
|---------------------------------|--|--|
| code                            | 0.061.0003                                     | 0.061.0004                                     |
| main brush width                | 710mm / 27,95 inc                              | 710mm / 27,95 inc                              |
| main brush + 1 side brush width | 880mm / 34,64 inc                              | 880mm / 34,64 inc                              |
| collector tank                  | 55 lt / 14,53 gal                              | 55 lt / 14,53 gal                              |
| max working capacity            | 3700m <sup>2</sup> /h-39826 ft <sup>2</sup> /h | 3700m <sup>2</sup> /h-39826 ft <sup>2</sup> /h |
| traction                        | mechanical                                     | mechanical                                     |
| max speed                       | 4 km/h-2,49mile/h                              | 4 km/h-2,49mile/h                              |
| motor type / power              | 12V / 400W                                     | Honda 4 HP / 2,9kW                             |
| filtering surface               | 3,02 m <sup>2</sup> / 32,50 ft <sup>2</sup>    | 3,02 m <sup>2</sup> / 32,50 ft <sup>2</sup>    |
| pressure on the brushes         | adjustable                                     | adjustable                                     |
| filter shaker                   | electric                                       | manual   |
| dimension / weight              | 126x83x85 cm / 89 kg                           | 126x83x85 cm / 97 kg                           |

**SWL R 1000 ET**  
**SWL R 1000 ST**

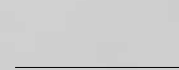
**ELECTRIC  
FILTER SHAKER**



**Standard accessories:**



0.961.0011  
PP SWL R 1000 ET



0.961.0015  
PP-Mixed steel SWL R  
1000 ST



2 x 0.961.0007  
PP SWL R 1000 ET



2 x 0.961.0023  
PP-Mixed steel SWL R  
1000 ST

6 x 0.961.0004  
paper filter 14 µm

**Optional:**

- Steel collector tank  
code: 0.961.0029
- Front light system  
(on request)
- Anti-trace wheels,  
code: 0.961.0031
- Polyester filters  
code: 0.961.0024
- Hepa filters  
code: 0.961.0025



0.961.0030 Side  
brush protection

**Equipped with:**

- Ideal for large surfaces • Large filter surface distributed on 6 cartridge filters fitted with electric filter shaker • Side brush raising control • **Complete right/left side brush** • Suction switch off
- Lift flap pedal • Flashing light • Main brush pressure regulation • Indirect back collection • Front dust vacuum system • Quick changing of the main brush and side brush without tools • Long life elastic belts
- Suction selection lever • Shock proof steel frame • Traction lever • Antistatic device • Battery level indicator • Wide collector tank • Heavy duty steel frame • Adjustable seat • Perfectly balanced weight of the components, thus resulting in totally safe quick changes of direction • Battery and battery charger not included. • Front light system (optional on request), standard for model code 0.061.0030.

Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)



|                              | SWL R 1000 ET                                   | SWL R 1000 ST                                   | SWL R 1000 ET*                                  | SWL R 1000 ST*                                  |
|------------------------------|---|---|---|---|
| code                         | 0.061.0006                                      | 0.061.0007                                      | 0.061.0030                                      | 0.061.0039                                      |
| main brush width             | 700 mm / 27,56 inc                              | 700 mm / 27,56 inc                              | 700 mm / 27,56 inc                              | 700 mm / 27,56 inc                              |
| main brush + 1 side brush    | 920 mm / 36,22 inc                              | 920 mm / 36,22 inc                              | 920 mm / 36,22 inc                              | 920 mm / 36,22 inc                              |
| main brush + 2 side brushes  | 1150 mm / 45,28 inc                             | 1150 mm / 45,28 inc                             | 1150 mm / 45,28 inc                             | 1150 mm / 45,28 inc                             |
| collector tank               | 90 lt / 23,78 gal                               | 90 lt / 23,78 gal                               | 90 lt / 23,78 gal                               | 90 lt / 23,78 gal                               |
| max working capacity         | 6200 m <sup>2</sup> /h-66736 ft <sup>2</sup> /h | 7700 m <sup>2</sup> /h-82881 ft <sup>2</sup> /h | 6200 m <sup>2</sup> /h-66736 ft <sup>2</sup> /h | 7700 m <sup>2</sup> /h-82881 ft <sup>2</sup> /h |
| traction / limiting gradient | rear wheels / 12%                               | front wheel / 14%                               | rear wheels / 12%                               | front wheel / 14%                               |
| max speed                    | 5,8 km/h-3,60 mile/h                            | 5,8 km/h-3,60 mile/h                            | 5,8 km/h-3,60 mile/h                            | 5,8 km/h-3,60 mile/h                            |
| motor type / power           | 24V / 1150W                                     | Honda 5,5 HP / 4,1kW                            | 24V / 1150W                                     | Honda 5,5 HP / 4,1kW                            |
| filtering surface            | 6 m <sup>2</sup> / 64,6 ft <sup>2</sup>         | 6 m <sup>2</sup> / 64,6 ft <sup>2</sup>         | 6 m <sup>2</sup> / 64,6 ft <sup>2</sup>         | 6 m <sup>2</sup> / 64,6 ft <sup>2</sup>         |
| filter shaker                | electric  | electric  | electric  | electric  |
| dimension / weight           | 143x91x114cm/260kg                              | 143x91x114cm/300kg                              | 143x91x114cm/260kg                              | 143x91x114cm/300kg                              |



### SWL R 1000 ET Bin-Up SWL R 1000 ST Bin-Up

**ELECTRIC  
FILTER SHAKER**



#### Equipped with:

- Ideal for large surfaces
- Large filter surface distributed on 6 cartridge filters fitted with electric filter shaker
- Side brush raising control
- Unload device for tank emptying into dust containers up to 110 cm height
- **Complete right/left side brush**
- Suction switch off
- Lift flap pedal
- Flashing light
- Main brush pressure regulation
- Indirect back collection
- Front dust vacuum system
- Quick changing of the main brush and side brush without tools
- Long life elastic belts
- Suction selection lever
- Shock proof steel frame
- Traction lever
- Antistatic device
- Battery level indicator
- Wide collector tank
- Heavy duty steel frame
- Adjustable seat
- Perfectly balanced weight of the components, thus resulting in totally safe quick changes of direction
- Battery and battery charger not included
- Front light system (optional on request)

#### Standard accessories:



0.961.0011  
PP SWL R 1000 ET



0.961.0015  
PP-Mixed steel SWL R  
1000 ST



2 x 0.961.0007  
PP SWL R 1000 ET



2 x 0.961.0023  
PP-Mixed steel SWL R  
1000 ST



6 x 0.961.0004  
paper filter 14 µm

#### Optional:

- Steel collector tank  
code: 0.961.0029
- Front light system  
(on request)
- Anti-trace wheels,  
code: 0.961.0031
- Polyester filters  
code: 0.961.0024
- Hepa filters  
code: 0.961.0025



0.961.0030 Side  
brush protection

|                              | SWL R 1000 ET BIN-UP                           | SWL R 1000 ST BIN-UP                            | SWL R 1000 ET BIN-UP*                          |
|------------------------------|--|---|--|
| code                         | 0.061.0008                                     | 0.061.0009                                      | 0.061.0040                                     |
| main brush width             | 700mm / 27,56 inc                              | 700mm / 27,56 inc                               | 700mm / 27,56 inc                              |
| main brush + 1 side brush    | 920mm / 36,22 inc                              | 920mm / 36,22 inc                               | 920mm / 36,22 inc                              |
| main brush + 2 side brushes  | 1150 mm / 45,28 inc                            | 1150 mm / 45,28 inc                             | 1150 mm / 45,28 inc                            |
| collector tank               | 90 lt / 23,78 gal                              | 90 lt / 23,78 gal                               | 90 lt / 23,78 gal                              |
| max working capacity         | 6200m <sup>2</sup> /h-66736 ft <sup>2</sup> /h | 7700 m <sup>2</sup> /h-82881 ft <sup>2</sup> /h | 6200m <sup>2</sup> /h-66736 ft <sup>2</sup> /h |
| traction / limiting gradient | rear wheels / 12%                              | front wheel / 14%                               | rear wheels / 12%                              |
| max speed                    | 5,8km/h-3,60mile/h                             | 5,8km/h-3,60mile/h                              | 5,8km/h-3,60mile/h                             |
| motor type / power           | 24V / 1150W                                    | Honda 5,5 HP / 4,1kW                            | 24V / 1150W                                    |
| filtering surface            | 6 m <sup>2</sup> / 64,6 ft <sup>2</sup>        | 6 m <sup>2</sup> / 64,6 ft <sup>2</sup>         | 6 m <sup>2</sup> / 64,6 ft <sup>2</sup>        |
| filter shaker                | electric                                       | electric  | electric                                       |
| dimension / weight           | 163x91x114cm/310kg                             | 163x91x114cm/350kg                              | 163x91x114cm/310kg                             |





**ELECTRIC  
FILTER SHAKER**

**SWL R 1100 ET**  
**SWL R 1100 ST**



**Standard accessories:**



0.961.0176  
PP SWL R 1100 ET



0.961.0178  
PP-Mixed steel SWL R  
1100 ST

2 x 0.961.0177  
PP SWL R 1100 ET

2 x 0.961.0179  
PP-Mixed steel SWL R  
1100 ST



8 x 0.961.0020  
paper filter 20 µm

**Optional:**

- Cartridge polyester filter  
code: 0.961.0020
- Hepa cartridge filter  
code: 0.961.0180

**Equipped with:**

- Ideal for large surfaces.
- Large filter surface distributed on 8 cartridge filters fitted with electric filter shaker.
- Side brush raising control.
- On request DSA unload device for tank emptying into dust containers up to 145 cm height.
- **Complete right/left side brush.**
- Anti-trace wheels (mod.ET).
- Suction switch off.
- Lift flap pedal.
- Flashing light.
- Main brush pressure regulation.
- 90° steering angle.
- Electric starter.
- Service and parking brake.
- Hour meter and klaxon.
- Antislip platform.
- Indirect back collection.
- Front dust vacuum system.
- Quick changing of the main brush and side brush without tools.
- Long life elastic belts.
- Suction selection lever.
- Shock proof steel frame.
- Traction lever.
- Antistatic device.
- Battery level indicator (mod.ET).
- 150 lt wide collector tank.
- Heavy duty steel frame.
- Adjustable seat.
- Battery and battery charger not included.
- **Front working light system.**

|                              | SWL R 1100 ET                                    | SWL R 1100 DT                                    |
|------------------------------|--|--|
| code                         | 0.061.0036                                       | 0.061.0033                                       |
| main brush width             | 800mm / 31,50 inc                                | 800mm / 31,50 inc                                |
| main brush + 1 side brush    | 1050mm / 41,34 inc                               | 1050mm / 41,34 inc                               |
| main brush + 2 side brushes  | 1300mm / 51,19 inc                               | 1300mm / 51,19 inc                               |
| collector tank               | 150 lt / 39,63 gal                               | 150 lt / 39,63 gal                               |
| max working capacity         | 9700 m <sup>2</sup> /h-104409 ft <sup>2</sup> /h | 9700 m <sup>2</sup> /h-104409 ft <sup>2</sup> /h |
| traction / limiting gradient | front wheels / 12%                               | front wheel / 20%                                |
| max speed                    | 7,5 km/h-4,66 mile/h                             | 7,5 km/h-4,66 mile/h                             |
| motor type / power           | 24V/1,91 kW                                      | Diesel Yanmar 6,7 Hp/4,92 kW                     |
| filtering surface            | 6,4 m <sup>2</sup> / 68,89 ft <sup>2</sup>       | 6,4 m <sup>2</sup> / 68,89 ft <sup>2</sup>       |
| filter shaker                | electric   | electric   |
| dimension / weight           | 160x101x130 cm/375 kg                            | 160x101x130 cm/434 kg                            |



**ELECTRIC  
FILTER SHAKER**

**SWL R 1100 ET Bin-Up**

**SWL R 1100 DT Bin-Up**



### Equipped with:

- Ideal for large surfaces.
- Large filter surface distributed on 8 cartridge filters fitted with electric filter shaker.
- Side brush raising control.
- On request DSA unload device for tank emptying into dust containers up to 145 cm height.
- **Complete right/left side brush.**
- Anti-trace wheels (mod.ET).
- Suction switch off.
- Lift flap pedal.
- Flashing light.
- Main brush pressure regulation.
- 90° steering angle.
- Electric starter.
- Service and parking brake.
- Hour meter and klaxon.
- Antislip platform.
- Indirect back collection.
- Front dust vacuum system.
- Quick changing of the main brush and side brush without tools.
- Long life elastic belts.
- Suction selection lever.
- Shock proof steel frame.
- Traction lever.
- Antistatic device.
- Battery level indicator (mod.ET).
- 150 lt wide collector tank.
- Heavy duty steel frame.
- Adjustable seat.
- Battery and battery charger not included.
- **Front working light system.**

### Standard accessories:



0.961.0176  
PP SWL R 1100 ET



0.961.0178  
PP-Mixed steel SWL R  
1100 ST

2 x 0.961.0177  
PP SWL R 1100 ET

2 x 0.961.0179  
PP-Mixed steel SWL R  
1100 ST



8 x 0.961.0020  
paper filter 20 µm

### Optional:

- Cartridge polyester filter  
code: 0.961.0020
- Hepa cartridge filter  
code: 0.961.0180

|                              | SWL R 1100 ET BIN-UP                             | SWL R 1100 DT BIN-UP                             |
|------------------------------|--|--|
| code                         | 0.061.0043                                       | 0.061.0041                                       |
| main brush width             | 800mm / 31,50 inc                                | 800mm / 31,50 inc                                |
| main brush + 1 side brush    | 1050mm / 41,34 inc                               | 1050mm / 41,34 inc                               |
| main brush + 2 side brushes  | 1300mm / 51,19 inc                               | 1300mm / 51,19 inc                               |
| collector tank               | 150 lt / 39,63 gal                               | 150 lt / 39,63 gal                               |
| max working capacity         | 9700 m <sup>2</sup> /h-104409 ft <sup>2</sup> /h | 9700 m <sup>2</sup> /h-104409 ft <sup>2</sup> /h |
| traction / limiting gradient | front wheels / 12%                               | front wheel / 20%                                |
| max speed                    | 7,5 km/h-4,66 mile/h                             | 7,5 km/h-4,66 mile/h                             |
| motor type / power           | 24V/1,91 kW                                      | Diesel Yanmar 6,7 Hp/4,92 kW                     |
| filtering surface            | 6,4 m <sup>2</sup> / 68,89 ft <sup>2</sup>       | 6,4 m <sup>2</sup> / 68,89 ft <sup>2</sup>       |
| filter shaker                | electric   | electric   |
| dimension / weight           | 160x101x130 cm/395 kg                            | 160x101x130 cm/454 kg                            |

## Accessories

|   |                   |  | BSW 651 M | SWL 700 ET | SWL 700 ST | SWL 900 ET | SWL 900 ST | SWLR 1000 ET | SWLR 1000 ST | SWLR 1000 ET BIN-UP | SWLR 1000 ST BIN-UP | SWLR 1100 ET | SWLR 1100 DT |
|---|-------------------|--|-----------|------------|------------|------------|------------|--------------|--------------|---------------------|---------------------|--------------|--------------|
|    | 0.961.0001        | paper panel filter 14 micron                             |           | S          | S          |            |            |              |              |                     |                     |              |              |
|   | 0.961.0002        | paper panel filter 14 micron                             |           |            |            | S          | S          |              |              |                     |                     |              |              |
|   | 0.961.0016        | polyester panel filter 5 micron                          |           | O          | O          |            |            |              |              |                     |                     |              |              |
|   | 0.961.0018        | Hepa panel filter  |           | O          | O          |            |            |              |              |                     |                     |              |              |
|   | 0.961.0017        | polyester panel filter 5 micron                          |           |            |            | O          | O          |              |              |                     |                     |              |              |
| 0.961.0019  | Hepa panel filter |  |           |            | O          | O          |            |              |              |                     |                     |              |              |
|    | 0.961.0003        | cartridge paper filter 14 micron                         |           |            |            |            |            |              |              |                     |                     | O            | O            |
|   | 0.961.0004        | cartridge paper filter 14 micron                         |           |            |            |            |            | S            | S            | S                   | S                   |              |              |
|   | 0.961.0020        | cartridge polyester filter 20 micron                     |           |            |            |            |            |              |              |                     |                     | S            | S            |
|   | 0.961.0024        | cartridge polyester filter 20 micron                     |           |            |            |            |            | O            | O            | O                   | O                   |              |              |
|   | 0.961.0025        | Hepa cartridge filter                                    |           |            |            |            |            | O            | O            | O                   | O                   |              |              |
|   | 0.961.0180        | Hepa cartridge filter                                    |           |            |            |            |            |              |              |                     |                     | O            | O            |
|   | 0.942.0052        | PP side brush  | S         |            |            |            |            |              |              |                     |                     |              |              |
|   | 0.961.0005        | PP side brush  |           | S          | S          | S          | S          |              |              |                     |                     |              |              |
|   | 0.961.0007        | PP side brush  |           |            |            |            |            | S            | O            | S                   | O                   |              |              |
|   | 0.961.0177        | PP side brush  |           |            |            |            |            |              |              |                     |                     | S            | O            |
|   | 0.942.0079        | mixed steel side brush                                   | O         |            |            |            |            |              |              |                     |                     |              |              |
|   | 0.961.0181        | mixed steel side brush                                   |           | O          | O          | O          | O          |              |              |                     |                     |              |              |
|   | 0.961.0023        | mixed steel side brush                                   |           |            |            |            |            | O            | S            | O                   | S                   |              |              |
|   | 0.961.0179        | mixed steel side brush                                   |           |            |            |            |            |              |              |                     |                     | O            | S            |
|  | 0.942.0050        | PP main brush  | S         |            |            |            |            |              |              |                     |                     |              |              |
|   |                   |  |           |            |            |            |            |              |              |                     |                     |              |              |
|   |                   |  |           |            |            |            |            |              |              |                     |                     |              |              |
|   |                   |  |           |            |            |            |            |              |              |                     |                     |              |              |
|  | 0.961.0008        | PP - moplen body main brush - bristle d. 0,5 mm          |           | S          | O          |            |            |              |              |                     |                     |              |              |
|   | 0.961.0009        | PP - moplen body main brush - bristle d. 0,5 mm          |           |            |            | S          | O          |              |              |                     |                     |              |              |
|   | 0.961.0011        | PP - moplen body main brush - bristle d. 0,5 mm          |           |            |            |            |            | S            | O            | S                   | O                   |              |              |
|   | 0.961.0176        | PP - moplen body main brush - bristle d. 0,5 mm          |           |            |            |            |            |              |              |                     |                     | S            | O            |
|  | 0.961.0012        | mixed steel - moplen body main brush                     |           | O          | S          |            |            |              |              |                     |                     |              |              |
|   | 0.961.0013        | mixed steel - moplen body main brush                     |           |            |            | O          | S          |              |              |                     |                     |              |              |
|   | 0.961.0015        | mixed steel - moplen body main brush                     |           |            |            |            |            | O            | S            | O                   | S                   |              |              |
|   | 0.961.0178        | mixed steel - moplen body main brush                     |           |            |            |            |            |              |              |                     |                     | O            | S            |
|  | 0.107.0002        | Tubular battery Pb-acid - 12V 118Ah C5                   |           | O1         | O1         |            |            |              |              |                     |                     |              |              |
|   | 0.107.0063        | GEL Battery - 12V 105Ah C5                               |           | O1         | O1         |            |            |              |              |                     |                     |              |              |
|   | 0.107.0004        | Tubular battery Pb-acid - 6V 180Ah C5 (+ 1 x 5.511.0561) |           | O2         | O2         |            |            |              |              |                     |                     |              |              |
|   | 0.107.0072        | GEL Battery - 6V 180Ah C5 (+ 1 x 5.511.0561)             |           | O2         | O2         |            |            |              |              |                     |                     |              |              |
|   | 0.107.0004        | Tubular battery Pb-acid - 6V 180Ah C5 (+ 3 x 5.511.0561) |           |            |            |            |            | O4           | O4           | O4                  |                     |              |              |
|   | 0.107.0072        | GEL Battery - 6V 180Ah C5 (+ 3 x 5.511.0561)             |           |            |            |            |            | O4           | O4           | O4                  |                     |              |              |
|   | 0.107.0080        | Tubular battery Pb-acid - 6V 320Ah C5 (+ 3 x 5.511.0561) |           |            |            |            |            | O4           | O4           | O4                  |                     |              |              |
|   | 0.107.0082        | GEL Battery - 6V 250Ah C5 (+ 3 x 5.511.0561)             |           |            |            |            |            | O4           | O4           | O4                  |                     |              |              |
|  | 0.108.0001        | LWS 1-12/24V-12A (for battery 0.107.0002-0.107.0063)     |           | O          | O          |            |            |              |              |                     |                     |              |              |
|   | 0.108.0002        | LWS 2-12/24V-25A (for battery 0.107.0004-0.107.0072)     |           | OA         | OA         | OB         | OB         | OB           | OB           | OB                  |                     |              |              |

S = standard equipment O = optional

(1)-(2)-(4)= n° batteries

OA = In combination with 5.511.2143

OB = In combination with 5.511.1948



**GV series is suitable to decrease and sanitize any object or surface in an easy, ecological and definitive way.**

GV range is made up of electric generators, vacuum steam generators, vacuum steam generators with foam system. Ideal for food and baking industry, for private and institutional use, for pharmaceutical and mechanical industry, for dairy factories, for building sectors and so on.

**Performances: temperature, steam production and pressure**

The same remarks about pressure and delivery rate made for high-pressure cleaners, have to be taken into consideration also for steam generators; in this case, the important difference is the physical relationship (and so not subjective or debatable) that exists between steam pressure and its temperature: to a fixed pressure values correspond right and univocal temperature. Knowing these values it is easy to identify the ones (like us) who show the right double relation between pressure and temperature.

Outlet steam temperature (not boiler temperature, that is higher)

is important because there are natural limits (about 140°C) under which

it is not possible to talk about sanitification and so the purpose that led to the machine purchase (clearly wrong) could be unattended.

**Is it better a steam generator or a hot water high-pressure cleaner?**

As far as the choice is concerned, the aspects to be considered are the analysis of the task that must be done and all the elements that make up the cost of the operation, i.e. working speed (labour cost) and (more and more important) waste treatment (waste disposal cost).

As far as the working speed is considered, it is important the whole cleaning procedure and not only the effective washing time: with the high-pressure cleaner it is not possible an indoor washing, unless there is a filled in collection system, instead it is necessary to move the washing phase outside; with the steam generator it is not necessary to move outside, it is possible to wash the part exactly where it is, because the water generated can be easily dried.

Steam at 180°C allow to degrease dirt also without the use of heavy chemical products. If they are necessary to speed up the washing task, it is very important to consider the cost of draining away dirty water.

The danger of chemical products used is generally proportional to the effectiveness against increasing dirt tenacity.

If we wash with the high-pressure cleaner we produce from 10 to 21 litres of polluted water, that must be collected and drained following the current regulation: in a single wash of a couple of hours 2,5 tons of dirty water is produced!

If we wash with a steam generator, the most powerful machine produces 37 litres per hour, with the most part of the liquid that evaporates, with a two hour wash the remaining dampness and disinfecting product is very low!

Analyzing all these subjects it is clear that in particular circumstances (lack of purification plant for water treatment), the steam generator is more advantageous of a high-pressure cleaner.

On the other side, rinsing speed is the consequence to the delivery rate that hits dirt, so if only the washing phase is considered, high-pressure cleaner is faster.

Steam can be considered water with a related dampness very, very low (superheated steam is just hot air and it doesn't have a significant mechanical action...), with an outlet temperature much higher (180°C) than a high-pressure cleaner: this means that the mechanical power is lower than the one of water, but the degreasing power of steam is much higher.



• **Multipurpose washable filter**

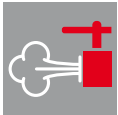
It combines all the advantages of the cartridge filter but with the plus that it can vacuum both dry and wet at the same time.

It can be washed with tap water.



• **Foam system:**

the machine is equipped with connection for compressed air and pressure gauge for foam cleaning. Using the lance with the hose a thick foam can be produced that will stay on the dirty components, giving more effectiveness to the detergent.



• **Discharge valve:**

Allows a complete discharge of the boiler (not possible even through gun use). In this way it is possible to remove water and limestone residual inside the boiler and from the coil surface.

This valve maybe opened only when the boiler is not hot, and it is recommended to accomplish regularly.



• **Unlimited autonomy:**

The boiler is refilled by a water pump that gets water from an external water tank. This system allows an unlimited autonomy, because it is not necessary to turn off the steam generator and wait a lower temperature to refill with water.

An automatic control recharges the boiler when necessary. In some models there is an acoustic signal advising about low water level inside the water tank.



• **Integrated vacuum:**

Dirt is vacuumed inside a tank integrated in the machine



GV Kone

GV Egon VAC

GV Etna 4.1

GV Etna 4.1 FOAM

GV Katla

GV 3,3 M plus

GV 8 T plus

| Code       | Model            | Page | Absorbed power | Suction motor | Max pressure | Steam production | Max temperature | Heating and activation time required | Water tank capacity | Detergent tank capacity | Packaging dimensions | Packaging weight | Packaging weight | Pieces for pallet |
|------------|------------------|------|----------------|---------------|--------------|------------------|-----------------|--------------------------------------|---------------------|-------------------------|----------------------|------------------|------------------|-------------------|
|            |                  |      | W              | W             | bar          | Kg/h             | °C              | min                                  | l                   | l                       | mm<br>L x l x h      | kg               | lbs              | n°                |
| 8.404.0051 | GV KONE          | 176  | 2300           | -             | 4            | 2,6              | 143             | 10                                   | 2,4                 | -                       | 470x330x350          | 8                | 17,64            | 25                |
| 8.406.0015 | GV Egon VAC      | 178  | 1900           | 1200          | 5            | 2,3              | 152             | 2                                    | 1,2                 | -                       | 550x400x500          | 14               | 30,86            | 16                |
| 8.451.0201 | GV ETNA 4.1      | 180  | 3000           | 1100          | 7            | 3,25             | 165             | 4                                    | 5                   | 5                       | 750x600x1030         | 42,5             | 93,69            | 4                 |
| 8.451.0210 | GV ETNA 4.1 FR   | 180  | 3000           | 1100          | 7            | 3,25             | 165             | 4                                    | 5                   | 5                       | 750x600x1030         | 42,5             | 93,69            | 4                 |
| 8.451.0208 | GV ETNA 4.1 FOAM | 182  | 3000           | 1500          | 7            | 3,25             | 165             | 4                                    | 5                   | 5                       | 750x600x1030         | 42,5             | 93,69            | 4                 |
| 8.453.0001 | GV KATLA         | 184  | 3300           | -             | 9            | 4,62             | 175             | 7                                    | 5                   | 5                       | 750x600x700          | 31               | 91,27            | 10                |
| 8.450.0010 | GV 3.3M PLUS     | 186  | 3300           | -             | 9            | 4,62             | 175             | 7                                    | 5                   | 5                       | 595x435x650          | 37               | 81,57            | 2                 |
| 8.458.0001 | GV 8 T PLUS      | 188  | 8000           | -             | 9            | 13,50            | 175             | 6                                    | 10                  | 5                       | 595x435x650          | 40               | 88,18            | 2                 |
| 8.452.0002 | GV VESUVIO 18    | 190  | 18000          | -             | 10           | 26,50            | 180             | 7                                    | 25                  | 5                       | 1300x780x1080        | 134              | 295,41           | 1                 |
| 8.452.0001 | GV VESUVIO 30    | 190  | 30000          | -             | 10           | 44,50            | 180             | 7                                    | 25                  | 5                       | 1300x780x1080        | 134              | 295,41           | 1                 |





GV Vesuvio

UPDS Fuji  
(Ultra pressure dry steamer)

GV Metis  
(Diesel steam generator)

GV Kolumbo  
(Diesel steam generator)

Graffiti Waster  
(Diesel steam generator)

| Code       | Model               | Page | Absorbed power | Suction motor | Max pressure | Steam production dry/wet | Max temperature | Heating and activation time required | Water tank capacity | Detergent tank capacity | Packaging<br>L x l x h | Packaging weight | Packaging weight | Pieces for pallet |
|------------|---------------------|------|----------------|---------------|--------------|--------------------------|-----------------|--------------------------------------|---------------------|-------------------------|------------------------|------------------|------------------|-------------------|
|            |                     |      | W              | W             | bar          | Kg/h                     | °C              | min                                  | l                   | l                       |                        | mm<br>L x l x h  | kg               | lbs               |
| 8.455.0001 | UPDS FUJI           | 192  | 3000           | -             | 10           | 50/90                    | 178             | 5                                    | 18                  | -                       | 1130x710x1110          | 130              | 242,50           | 1                 |
| 8.457.0001 | GV METIS            | 194  | 350            | -             | 10           | 50/90                    | 178             | 5                                    | 18                  | -                       | 1130x710x1110          | 110              | 286,60           | 1                 |
| 8.628.0006 | GV KOLUMBO          | 196  | 350            | -             | 10           | 50/90                    | 178             | 5                                    | 25                  | 25                      | 1300x780x1080          | 140              | 308,64           | 1                 |
| 8.628.0025 | GV KOLUMBO cordless | 196  | 350            | -             | 10           | 50/90                    | 178             | 5                                    | 25                  | 25                      | 1300x780x1080          | 140              | 308,64           | 1                 |
| 8.628.0017 | GV KOLUMBO 2 Ways   | 196  | 350            | -             | 10           | 50/90                    | 178             | 5                                    | 25                  | 25                      | 1300x780x1080          | 140              | 308,64           | 1                 |
| 8.628.0027 | GRAFFITI WASTER     | 198  | 350            | -             | 10           | 50/90                    | 178             | 5                                    | 25                  | 25                      | 1300x780x1080          | 166              | 265,97           | 1                 |



### GV Kone



#### Equipped with:

- Saturated steam at 4 bar at a temperature of 143°C
- Boiler 2,3 kW
- Heating and activation time required: 10 min
- Pressure switch
- Double thermostat
- Cap with protection against anti-unscrewing and safety valve
- Handy accessory compartment with electric cable holder
- Control panel with lamps
- Impact resistant covers
- Steam regulation
- Thermometer
- Power cable 6 m.

#### Standard equipment:

- Hose 2,8 m



- 2x 6.402.0078



- 6.402.0003



- 6.402.0004



- 6.402.0006



- 6.402.0005



- 6.402.0040



- 6.402.0009



- 3.099.1053



- 3.099.1052



- 3.099.0126



- 3.099.0189



- 0.010.0028 Antiscale sachet 50gr

#### GV Kone

|                                |                        |
|--------------------------------|------------------------|
| Code                           | 8.404.0051             |
| Max steam pressure/temperature | 4 bar/143° C           |
| Boiler absorbed power          | 2300 W/220-240V ~ 50Hz |
| Steam production               | 80 kg/h max            |
| Boiler type/volume             | Alluminium/2,4 l       |





Lavor steam cleaner GV Kone sanitizes and sterilizes every surface with steam power, without using detergents or disinfectants. GV Kone is environmental friendly.

Steam regulation allows washing adjusting considering the surface to be treated: in this way every kind of surface has the right treatment.



The machine is user friendly and has a wide range of accessories: GV Kone is a comfortable and safe daily working tool.

Steam cleaning function is perfect in shops, premises, offices as well as in household application and removes the toughest and hidden dirt while eliminating mites, germs and bacteria.



### GV Egon VAC



#### Equipped with:

- ABS body
- Ready steam warning lamp
- Boiler 1,9 kW S.S. AISI 304
- Low level water lamp indicator
- Boiler is refilled continuously
- Washable filter
- Flex hose 2 m
- Recovery tank capacity 8 l
- Steam regulation
- Wheels suitable for use in food processing area
- ON/OFF main switch with indicator lamp
- ON/OFF boiler switch with indicator lamp
- Water filter
- Pressure gauge.

#### TUV certified for professional use

#### Standard Equipment

- 5.211.0090 
- 2 X 3.753.0127 
- 6.402.0071 
- 3.754.0204 
- 3.754.0121 
- 3.754.0256 
- 3.754.0255 
- 3.754.0005 
- 3.754.0271 
- 3.754.0196 
- 3.754.0215 
- 3.754.0197 
- 3.754.0109 
- 3.754.0108 
- 3.754.0110 
- 3.754.0257 
- 6.402.0105 
- 3.752.0123 
- 3.754.0175 
- 3.099.1108 

|                                | GV Egon VAC                   |
|--------------------------------|-------------------------------|
| Code                           | 8.406.0015                    |
| Max steam pressure/temperature | 5 bar/152° C                  |
| Boiler absorbed power          | 1900 W/220/240V ~ 50Hz (Ph 1) |
| Vacuum motor absorbed power    | 1200 (max 1400) W             |
| Column depression/Air flow     | 24 kPa/220 m³/h               |
| Recovery tank capacity         | 8 l                           |



GV Egon VAC allows, simply and quickly and with the exclusive use of water, steam cleaning of all surfaces together with dust and liquid vacuuming. It is possible to clean and sanitize all surfaces (ceramic, stainless steel, glass, wood, linoleum, marble, carpet, armchairs and sofas) with high temperature steam, removing mites, germs, bacteria and prevent the onset of allergies.

High pressure stainless steel boiler with unlimited autonomy, ready in a few moments and complete with a wide set of accessories.

Silent operation in sensitive and crowded areas, just setting the suction power on the gun.

Thanks to the water filter it is possible to empty dirt water tank in a few seconds, no need of paper collector filters.

No more waiting for the boiler to cool down, it can be safely refilled, even while you are using it.

Set the boiler, choose the steam intensity. All the controls are on the handle, press the lever to steam, press the button to vacuum.



With high efficiency suction and the electronic control, it is possible to set vacuum power on the gun and to vacuum steam melted with dirt.

It is possible to vacuum dust and liquids with a 4 stage filtering system by adding, optionally, filtering water for greater filtration efficiency.

## Fields of applications

### Steam system:

Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).

Food & beverage (food industry, catering, beverage, winery).

Industry (industry, transportation, car washers, car dealers).



### GV Etna 4.1



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)



#### Equipped with:

- Stainless steel body AISI 304
- Ready steam warning lamp
- Boiler 3 kW S.S. AISI 304 - Thickness 25/10
- Low level water lamp indicator
- Boiler is refilled continuously
- Switch for using chemicals and detergents mixed with steam
- Device for cleaning hot water mixed with steam
- Washable filter
- Flex hose 4 m
- Recovery tank capacity 64 l
- Drain hose system
- Steam regulation
- Wheels suitable for use in food processing area
- ON/OFF main switch with indicator lamp
- ON/OFF boiler switch with indicator lamp
- Boiler capacity 4 litres.
- Suction speed Control (Only code 8.451.0201)

#### Standard equipment:

- 5.211.0123 Hose 4 m (mod. GV Etna 4.1)
- 5.211.0124 Hose 4 m (mod. GV Etna 4.1 FR)



- 3.753.0141



- 3.754.0278



- 3.754.0005



- 3.754.0192



- 3.754.0109



- 3.754.0108



- 3.754.0110



- 6.405.0245



- 3.754.0194



- 3.754.0215



- 3.754.0196



- 3.754.0197



- 3.754.0204



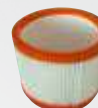
- 3.754.0260



- 3.754.0271



- 5.212.0178



- 4.408.0454 - Sponge accessory

|  | GV Etna 4.1               | GV Etna 4.1 FR            |
|--|---------------------------|---------------------------|
| Code   | 8.451.0201                | 8.451.0210                |
| Max steam pressure/temperature/ Steam production | 7 bar/165° C/3,25 kg/h    | 7 bar/165° C/3,25 kg/h    |
| Boiler absorbed power                            | 3000 W/230V ~ 50Hz (Ph 1) | 3000 W/230V ~ 50Hz (Ph 1) |
| Vacuum motor absorbed power                      | 1200 W                    | 1200 W                    |
| Column depression/Air flow                       | 20.39 kPa/220 m³/h        | 20.39 kPa/220 m³/h        |
| Water tank/detergent tank capacity               | 5 l/5 l                   | 5 l/5 l                   |



New simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler ON/OFF switch with lamp, steam/detergent regulator/selector, steam flow rate regulator, steam ready warning lamp, low level water indicator lamp with buzzer, steam pressure gauge. Gun with integrated start-up control, adjustment of the vacuum power and steam function activation key.

Unlimited autonomy thanks to the continuous power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work. Discharge pipe to quickly drain dirty water collected without removing the head. Two-stage bypass vacuum motor with cyclone effect.



Equipped with 3 pumps: boiler, detergent and water. Maximum safety thanks to the 2 safety thermostats, 1 pressure switch and 1 mechanical maximum pressure valve.

## Fields of applications

**Steam system:** Food & beverage (food industry, catering, beverage, winery).  
Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).  
Industry (industry, transportation, car washers, car dealers).



### GV Etna 4.1 FOAM



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)



#### Standard equipment:

- 5.211.0123 Hose 4 m



- 3.753.0141



- 3.754.0278



- 3.754.0005



- 6.402.0106



- 6.402.0113



- 6.405.0245



- 3.754.0194



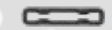
- 3.754.0215



- 3.754.0196



- 3.754.0197



- 3.754.0204



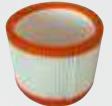
- 3.754.0260



- 3.754.0271



- 5.212.0178



- 4.408.0454 - Sponge accessory

- 3.697.0072 1l. LC prefoam

#### Equipped with:

- Stainless steel body AISI 304
- Ready steam warning lamp
- Boiler 3 kW S. S. AISI 304 - Thickness 25/10
- Low level water lamp indicator
- Boiler is refilled continuously
- Switch for using chemicals and detergents mixed with steam
- Device for cleaning hot water mixed with steam
- Washable filter
- Flex hose 4 m
- Recovery tank capacity 64 l
- Drain hose system
- Steam regulation
- Wheels suitable for use in food processing area
- ON/OFF main switch with indicator lamp
- ON/OFF boiler switch with indicator lamp
- Boiler capacity 4 litres.
- Suction speed Control

| GV Etna 4.1 Foam                                 |                           |
|--|---------------------------|
| Code   | 8.451.0208                |
| Max steam pressure/temperature/ Steam production | 7 bar/165° C/3,25 kg/h    |
| Boiler absorbed power                            | 3000 W/230V ~ 50Hz (Ph 1) |
| Vacuum motor absorbed power                      | 1200 W                    |
| Column depression/Air flow                       | 20.39 kPa/220 m³/h        |
| Water tank/detergent tank capacity               | 5 l/5 l                   |



New simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler ON/OFF switch with lamp, steam function/compressed air function selector, water/detergent selector, steam flow rate regulator, steam ready indicator lamp, low water level indicator lamp with buzzer, steam pressure gauge, and air pressure gauge. Gun with integrated start-up control, adjustment of the vacuum power and

steam/foam function activation key.

Multipurpose machine: cleaning with detergent, steam, steam with detergent, foam and hot water. Equipped with a compressed air connection and pressure gauges for air and steam.

Unlimited autonomy of steam thanks to the electronically controlled power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work.



Discharge pipe to quickly drain dirty water from the tank. Two-stage bypass vacuum motor. Equipped with 3 pumps: boiler, detergent and water. Maximum safety thanks to the 2 safety thermostats, 1 pressure switch and 1 mechanical maximum pressure valve + 1l LC prefoam.

## Fields of applications

**Steam system:** Food & beverage (food industry, catering, beverage, winery).

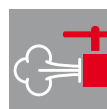
Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).

Industry (industry, transportation, car washers, car dealers).

**Foam system:** Car dealers, car washers, garages, car body shops, and every other place where a source of compressed air is already available



### GV Katla



#### Standard equipment:

- 5.409.0256 Hose 3 m



- 2 x 3.753.0111



- 3.754.0228



- 3.754.0229



- 3.754.0235



- 3.754.0250



- 3.754.0230



- 6.405.0240



- 6.402.0096



- 3.754.0234



- 6.402.0095



- 3.099.0126



#### Optional

- 5.409.0254 Steam gun with hose (10 m)
- 3.754.0280 Long steam lance



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Equipped with:

- Saturated steam at 9 bar at a temperature of 175°C
- Steam gun with low tension control
- S. S. body AISI 304
- Boiler 3,3 kW S. S. AISI 304. Thickness 25/10
- Low level water lamp indicator
- Device for using chemicals and detergents mixed with steam
- Heating and activation time required: 7 min.
- Steam regulation
- Discharge valve
- Pressure gauge
- The boiler can be refilled from the tank provided (continuous duty)
- Wheels suitable for food and processing areas
- Storage basket.

#### GV Katla

|                                    |                           |
|------------------------------------|---------------------------|
| Code                               | 8.453.0001                |
| Max steam pressure/temperature     | 9 bar/175° C              |
| Boiler absorbed power              | 3300 W/230V ~ 50Hz (Ph 1) |
| Steam production                   | 4,62 kg/h                 |
| Boiler type/volume                 | Inox AISI 304/4 l         |
| Water tank/detergent tank capacity | 5 l/5 l                   |





Simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler ON/OFF switch with lamp, water/detergent selector, steam flow rate regulator, steam ready indicator lamp, low water level indicator lamp with buzzer, steam pressure gauge. Steam gun with integrated steam/detergent function activation key and quick coupling of accessories.

Unlimited autonomy thanks to the continuous power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work, with major time saving in the operating phase. Boiler with saturated steam at 9 bar at a temperature of 175°C.

Equipped with 3 pumps: boiler, detergent and water. Maximum safety thanks to the 1 safety thermostat, 1 pressure switch and



1 mechanical maximum pressure valve. Discharge valve for complete discharge of the boiler; it eliminates water residues and formation of lime scale, thus lengthening the lifespan of the boiler. A 5-litre water and detergent double tank. A rich and complete range of accessories is supplied.

Fieldswater and scale growth, extending boiler's life.

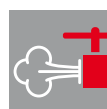
## Fields of applications

### Steam system:

Food & beverage (food industry, catering, beverage, winery).  
 Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).  
 Industry (industry, transportation, car washers, car dealers).



### GV 3,3 M Plus



#### Standard equipment:

- 5.409.0256 Hose 3 m



- 2 x 3.753.0111



- 3.754.0228



- 3.754.0229



- 3.754.0235



- 3.754.0250



- 3.754.0230



- 6.405.0240



- 6.402.0096



- 3.754.0234



- 6.402.0095



- 3.099.0126



#### Optional:

- 5.409.0254 Steam gun with hose (10 m)
- 3.749.0280 Long steam lance



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Equipped with:

- Saturated steam at 9 bar at a temperature of 175°C
- Steam gun with low tension control
- Made of AISI 304 stainless steel
- Boiler 3,3 kW S. S. AISI 304. Thickness 25/10
- Heating and activation time required: 7 min.
- Steam regulation
- Discharge valve
- Pressure gauge
- Device for using chemicals and detergents mixed with steam
- The boiler can be refilled from the tank provided (continuous duty)
- Pivoting wheels with brakes, suitable for use in food processing areas.

#### GV 3,3 M PLUS

|                                    |                           |
|------------------------------------|---------------------------|
| Code                               | 8.450.0010                |
| Max steam pressure/temperature     | 9 bar/175° C              |
| Boiler absorbed power              | 3300 W/230V ~ 50Hz (Ph 1) |
| Steam production                   | 4.62 kg/h                 |
| Boiler type/volume                 | Inox AISI 304/4 l         |
| Water tank/detergent tank capacity | 5 l/5 l                   |



Simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler resistance activation lamp, steam flow rate regulator, steam ready indicator lamp, steam pressure gauge. Steam gun with integrated steam/detergent function activation key and quick coupling of accessories. Boiler no water safety stop sensor. No water and water tank full lamp. Water pump activation lamp. Detergent pump activation lamp. Water/detergent selector key.

Boiler draining key.

Unlimited autonomy thanks to the continuous power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work, with major time saving in the operating phase. Boiler with saturated steam at 9 bar at a temperature of 175°C.

Equipped with 2 pumps: boiler and detergent. Maximum safety thanks to the 1 safety thermostat, 1 pressure switch and 1



mechanical maximum pressure valve.

Discharge valve for complete discharge of the boiler; it eliminates water residues and formation of lime scale, thus lengthening the lifespan of the boiler.

Equipped with 4 pivoting wheels suitable for food environments. A 5-litre water and detergent double tank.

A rich and complete range of accessories is supplied.

## Fields of applications

### Steam system:

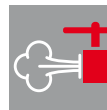
Steam system: Food & beverage (food industry, catering, beverage, winery).

Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).

Industry (industry, transportation, car washers, car dealers).



### GV 8 T Plus



#### Standard equipment:

- 6.402.0080  
Hose 3,5 m



- 6.402.0082



- 6.402.0081



- 6.402.0083



- 6.405.0207



- 6.402.0046



- 6.402.0069



- 4.407.0033 Steam nozzle

#### Optional:

- 6.402.0087 Steam gun with hose (6 m)
- 6.402.0085 Steam gun with hose (10 m)
- 6.402.0092 Straight lance mm 750 without nozzle
- 6.405.0197 Coupling for tanks Ø 40
- 6.402.0094 Extension 650 mm
- 6.402.0097 Lance with flat nozzle
- 6.402.0098 Brass bristles brush Ø 80
- 6.402.0112 Lance for barrel



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Equipped with:

- Built-in AISI 304 stainless steel
- Pivoting wheels with brakes, suitable for use in food processing areas
- The boiler can be refilled from the tank provided (continuous duty)
- Discharge valve
- Pressure gauge
- Device for using chemicals and detergents mixed with steam
- Heating and activation time required: 6 min.
- Control with low tension controls
- Control panel: ON-OFF main switch, indicator lamp,
- Saturated steam at 9 bar at a temperature of 175°C.

#### GV 8 T plus

|                                    |                           |
|------------------------------------|---------------------------|
| Code                               | 8.458.0001                |
| Max steam pressure/temperature     | 9 bar/175° C              |
| Boiler absorbed power              | 8000 W/400V ~ 50Hz (Ph 3) |
| Steam production                   | 13,50 kg/h                |
| Boiler type/volume                 | Inox AISI 304/5 l         |
| Water tank/detergent tank capacity | 10 l/5 l                  |



Simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler resistance activation lamp, steam flow rate regulator, steam ready indicator lamp, steam pressure gauge. Steam gun with integrated steam/detergent function activation key and quick coupling of accessories. Boiler no water safety stop sensor. No water and water tank full lamp. Water pump activation lamp. Detergent pump activation lamp. Water/detergent selector key.

**Boiler draining key.**

Unlimited autonomy thanks to the continuous power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work, with major time saving in the operating phase. Boiler with saturated steam at 9 bar at a temperature of 175°C.

Equipped with 2 pumps: boiler and detergent. Maximum safety thanks to the 1 safety thermostat, 1 pressure switch and 1



mechanical maximum pressure valve. Discharge valve for complete discharge of the boiler; it eliminates water residues and formation of lime scale, thus lengthening the lifespan of the boiler. Equipped with 4 pivoting wheels suitable for food environments. A 10l water and 5l detergent double tank. A rich and complete range of accessories is supplied.

**Fields of applications**

**Steam system:**

Steam system: Food & beverage (food industry, catering, beverage, winery).

Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).

Industry (industry, transportation, car washers, car dealers).





REGULATOR



NO-STOP  
REFILLING

### GV Vesuvio



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Equipped with:

- Built-in AISI 304 stainless steel
- Pivoting wheels with brakes, suitable for use in food processing areas
- The boiler can be refilled from the tank provided (continuous duty)
- Temperature regulator, discharge valve and pressure gauge
- Device for using chemicals and detergents mixed with steam
- Heating and activation time required: 6 min.
- Control with low tension controls
- Control panel: ON-OFF main switch, indicator lamp, thermoregulator, boiler activating key, gun activating key
- Timer cycle.

#### Standard equipment:

- 6.402.0080  
Hose 3,5 m



- 6.402.0082



- 6.402.0081



- 6.402.0083



- 6.405.0207



- 6.402.0046



- 6.402.0069



- 4.407.0077 Steam nozzle (GV Vesuvio 18)
- 4.407.0079 Steam nozzle (GV Vesuvio 30)

#### Optional:

- 6.402.0087 Steam gun with hose (6 m)
- 6.402.0085 Steam gun with hose (10 m)
- 6.402.0093 Steam gun with hose (15 m)
- 6.402.0090 Steam gun with hose (20 m)
- 6.402.0092 Straight lance mm 750 without nozzle
- 6.405.0197 Coupling for tanks Ø 40
- 6.402.0094 Extension 650 mm
- 6.402.0097 Lance with flat nozzle
- 6.402.0098 Brass bristles brush Ø 80
- 6.402.0112 Lance for barrel

|                                    | GV Vesuvio 18                | GV Vesuvio 30                |
|------------------------------------|------------------------------|------------------------------|
| Code                               | 8.452.0002                   | 8.452.0001                   |
| Max steam pressure/temperature     | 10 bar / 180° C              | 10 bar / 180° C              |
| Boiler absorbed power              | 18000 W / 400V ~ 50Hz (Ph 3) | 30000 W / 400V ~ 50Hz (Ph 3) |
| Steam production                   | 26.5 kg/h                    | 44.5 kg/h                    |
| Boiler type/volume                 | Inox AISI 304 / 18 l         | Inox AISI 304 / 18 l         |
| Water tank/detergent tank capacity | 25 l / 5 l                   | 25 l / 5 l                   |



Simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch, activation lamp, electronic regulator of the temperature with digital display, low water level display with buzzer, boiler activation key, gun activation key, steam pressure gauge, steam selector and detergent selector. Steam gun with integrated steam/detergent function activation key and quick coupling of accessories. Timer cycle. Unlimited autonomy thanks to the continuous power supply

of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work, with major time saving in the operating phase. Boiler with saturated steam at 10 bar at a temperature of 180°C.

Equipped with 2 pumps: detergent and water. Maximum safety thanks to the 2 level controls, 1 thermostat, 1 pressure switch and 1 mechanical pressure valve. Discharge valve for complete discharge of the boiler; it eliminates water residues



and formation of lime scale, thus lengthening the lifespan of the boiler. Double tank: 25 litres for water and 5 litres for detergent. Equipped with 2 pivoting wheels and appropriate brake to use in food environments + 2 fixed wheels. A rich and complete range of accessories is supplied with practical accessory holders.

## Fields of applications

### Steam system:

Steam system: Food & beverage (food industry, catering, beverage, winery).

Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).

Industry (industry, transportation).

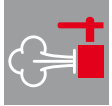




REGULATOR



NO-STOP REFILLING



**2 in 1**  
Dry steam  
+  
high pressure

### UPDS Fuji



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

#### Equipped with:

**Steam:** Vertical burner with high thermal efficiency steel coil. Auxiliary motor for burner. Discharge valve: allows a complete discharge of the boiler. Temperature regulator: the temperature is set up by an electronic regulator. Steam pressure gauge. Temperature regulator. Low fuel lamp. Double pipe gasoil pump. User friendly control panel. Unit can be continually refilled. Safety solenoid valve. Device for cleaning hot water mixed with steam.

**High pressure water:** Three ceramic coated pistons brass linear pump head with built-in by-pass valve.

#### Standard equipment



- 6.402.0102 - Steam gun with hose (10 m)



- 6.402.0082 - Steam lance



- 6.402.0110 - Steam/High pressure lance

- 4.407.0079 - Steam nozzle G 1/8 d = 3,75



- 3.103.0050 - High pressure nozzle 045



#### Optional:

- 6.402.0103 Steam gun with hose (15 m)
- 6.402.0104 Steam gun with hose (20 m)



- 6.405.0207  
Kit 3 brushes



- 6.402.0069  
Glass wiper



- 6.402.0046  
Black plastic scraper l. 50

- 6.402.0112 Lance for barrel

|                                | UPDS Fuji                         |
|--------------------------------|-----------------------------------|
| Code                           | 8.455.0001                        |
| Operat. pressure               | 120 bar (150 bar max)             |
| Delivery rate max              | 660 l/h                           |
| Max steam pressure/temperature | 10 bar / 178° C                   |
| Absorbed power                 | 3000 + 350 W / 230V ~ 50Hz (Ph 1) |
| Steam production dry/wet       | 50/90 kg/h                        |
| Burner type/fuel consumption   | Diesel / 2,83 l/h                 |
| Fuel tank capacity             | 18 l                              |





Ultra Pressure Dry Steamer: a new revolutionary cleaning system.

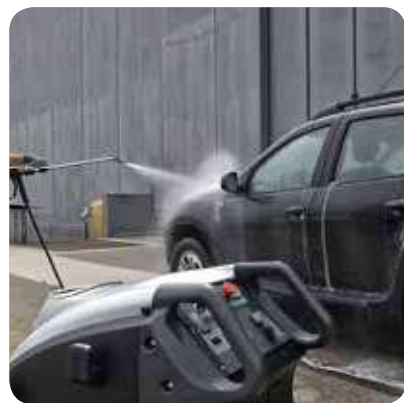
The advantages of two cleaning systems are combined into one single product. An innovative cleaning system that combines the mechanical force of high-pressure water with the degreasing and disinfecting force of dry steam. Equipped with a 18 liters diesel tank, which makes the high pressure cleaning autonomous. A professional steam generator integrated with a cold

water high-pressure cleaner, dual use for multiple applications in an all-in-one product.

With the cold water high pressure cleaner, which uses the mechanical force of the high pressure, you can quickly remove coarse and superficial dirt.

Thanks to the use of detergents is then possible to act effectively on all kinds of dirt and on all surfaces.

With the degreasing and sanitizing strength of dry steam it is



possible to remove even the more aggressive dirt, allowing to clean car rims, the engine compartment, interior parts, floor mats.

Ideal for: Cleaning and sanitising car interiors, street furniture, playgrounds, removing chewing gum, degreasing mechanical parts in general, etc.

## Fields of applications

### Steam system:

Steam system: Food & beverage (food industry, catering, beverage, winery).

Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).

Industry (industry, transportation).






Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

### Metis

#### Standard equipment:

- 6.402.0102 Hose 10 m 
- 6.402.0082 
- 6.405.0207 
- 4.407.0079 Steam nozzle 

#### Optional:

- 6.402.0103 Steam gun with hose (15 m)
- 6.402.0104 Steam gun with hose (20 m)
- 6.402.0092 Lance mm 750 without nozzle
- 6.402.0081 Lance mm 175 without nozzle
- 6.402.0083 Lance mm 425 without nozzle
- 6.402.0046 Black plastic scraper l. 50
- 6.402.0069 Glass wiper
- 6.405.0197 Coupling for tanks Ø 40
- 6.402.0094 Extension 650 mm
- 6.402.0097 Lance with flat nozzle
- 6.402.0098 Brass bristles brush Ø 80
- 6.402.0112 Lance for barrel

#### Equipped with:

- Vertical burner with high thermal efficiency steel coil
- Auxiliary motor for burner
- Discharge valve: allows a complete discharge of the boiler
- Temperature regulator: the temperature is set-up by an electronic regulator
- Steam pressure gauge
- Low fuel indicator
- Double pipe gasoil pump
- User-friendly control panel
- Unit can be continually refilled
- Provided with 2 outputs for simultaneous work of two different operators.

|                                | Metis                      |
|--------------------------------|----------------------------|
| Code                           | 8.457.0001                 |
| Max steam pressure/temperature | 10 bar / 178° C            |
| Absorbed power                 | 350 W / 230V ~ 50Hz (Ph 1) |
| Steam production dry/wet       | 50/90 kg/h                 |
| Burner type/fuel consumption   | Diesel / 2,83 l/h          |
| Water tank/fuel tank capacity  | 18 l / 18 l                |



Metis is a portable steam generator with a diesel fuel boiler. Unlimited autonomy thanks to no-stop water tank refilling. It does not leave any residues after cleaning. Metis water saving (over 90%) compared to normal high-pressure systems. Allows sanitisation tasks thanks to the combined use of steam and pressure. The operator does not require special protective overalls and protective masks. Provided with 2 outputs for simultaneous work of two different operators.

Portability: it does not need to be connected neither to the water supply because it is equipped with a water tank.

It is easy to move around, easy to use, and ready to use.

The advantages compared to normal high-pressure washing:

- Ecological: It consumes very little water (90% less than normal high-pressure cleaners) and does not require connection to the water supply.



- It does not require a collection tank to dispose of water reflux.
- Thanks to the high temperature that degreases and dissolves dirt, no polluting chemical products are required.
- Easy to use where required, it does not require connection to the water supply, the operator does not require special work clothing, excess water is not wasted.
- Ideal for maintenance cleaning and makes the bodywork of your car or motorbike shine without the risk of damaging it with the mechanical action of the high-pressure water.

Ideal for: Eliminating stubborn grease and dirt, leaving surfaces clean and shining. Cleaning is easy, all you need to do is use the cleaning and degreasing action of the steam at high temperature and collect residues with a microfibre cloth. Glass and delicate surfaces. Car interiors and for the most difficult parts to reach. Quick, thorough cleaning and sanitisation of mats without wetting them.





REGULATOR



## Kolumbo



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

**Kolumbo 2way**  
 With double guns  
 for two operators

### Standard equipment:

- 6.402.0085  
 Hose 10 m  
 (Kolumbo 2way -  
 Two pieces)



- 6.402.0082  
 (Kolumbo 2way -  
 Two pieces)



- 6.405.0207  
 (Kolumbo 2way - Two pieces)



- 4.407.0079 Steam nozzle (Kolumbo/Kolumbo cordless)
- 4.407.0077 Steam nozzle (Kolumbo 2 way)

Only Kolumbo cordless  
 standard on board



CHARGER



### Optional:

- 6.402.0080 Steam gun with hose (3,5 m)
- 6.402.0087 Steam gun with hose (6 m)
- 6.402.0093 Steam gun with hose (15 m)
- 6.402.0090 Steam gun with hose (20 m)
- 6.402.0092 Lance mm 750 without nozzle
- 6.402.0081 Lance mm 175 without nozzle
- 6.402.0083 Lance mm 425 without nozzle
- 6.402.0046 Black plastic scraper l. 50
- 6.402.0069 Glass wiper
- 6.405.0197 Coupling for tanks Ø 40
- 6.402.0094 Extension 650 mm
- 6.402.0097 Lance with flat nozzle
- 6.402.0098 Brass bristles brush Ø 80
- 6.402.0112 Lance for barrel

### Equipped with:

- Vertical burner with high thermal efficiency steel coil
- Auxiliary motor for burner
- Discharge valve: allows a complete discharge of the boiler
- Temperature regulator: the temperature is set-up by an electronic regulator
- Steam pressure gauge, temperature regulator and low fuel lamp
- Integrated detergent tank with detergent delivery controller by the gun
- Double pipe gasoil pump
- User-friendly control panel
- Unit can be continually refilled
- Standard with double guns for 2 operators model Kolumbo 2Way code 8.628.0017
- Battery version: Kolumbo Cordless code 8.628.0025 (Battery charger 230 V-50 Hz).

|                                | KOLUMBO                           | KOLUMBO CORDLESS           | KOLUMBO 2way                      |
|--------------------------------|-----------------------------------|----------------------------|-----------------------------------|
| Code                           | 8.628.0006                        | 8.628.0025                 | 8.628.0017                        |
| Max steam pressure/temperature | 10 bar / 178° C                   | 10 bar / 178° C            | 10 bar / 178° C                   |
| Absorbed power                 | 350 W / 220/230V ~ 50/60Hz (Ph 1) | 350 W / 1 x 12 DC 75 Ah C5 | 350 W / 220/230V ~ 50/60Hz (Ph 1) |
| Steam production dry/wet       | 50/90 kg/h                        | 50/90 kg/h                 | 50/90 kg/h                        |
| Burner type/fuel consumption   | Diesel / 2,83 l/h                 | Diesel / 2,83 l/h          | Diesel / 2,83 l/h                 |
| Water tank/fuel tank capacity  | 25 l / 25 l                       | 25 l / 25 l                | 25 l / 25 l                       |



GV Kolumbo is a portable steam generator with a diesel fuel boiler. Unlimited autonomy thanks to no-stop water tank refilling. It does not leave any residues after cleaning. Major water saving (over 90%) compared to normal high-pressure systems. Allows sanitisation tasks thanks to the combined use of steam and detergents. The operator does not require special protective overalls and protective masks.

Portability: it does not need to be connected neither to the water

supply because it is equipped with a water tank, nor to the electrical supply (cordless model) because it has a diesel fuel boiler. It is easy to move around, easy to use, and ready to use. The advantages compared to normal high-pressure washing:

- Ecological: It consumes very little water (90% less than normal high-pressure cleaners) and does not require connection to the water supply.

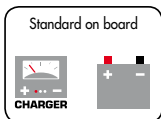
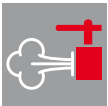


- It does not require a collection tank to dispose of water reflux.
- Thanks to the high temperature that degreases and dissolves dirt, no polluting chemical products are required.
- Easy to use where required, it does not require connection to the water supply, the operator does not require special work clothing, excess water is not wasted.
- Ideal for maintenance cleaning and makes the bodywork of your car or motorbike shine without the risk of damaging it with the mechanical action of the high-pressure water.

Ideal for: Eliminating stubborn grease and dirt, leaving surfaces clean and shining. Cleaning is easy, all you need to do is use the cleaning and degreasing action of the steam at high temperature and collect residues with a microfibre cloth. Glass and delicate surfaces. Car interiors and for the most difficult parts to reach. Quick, thorough cleaning and sanitisation of mats without wetting them.



### Graffiti Waster



#### Equipped with:

- Vertical burner with high thermal efficiency steel coil
- Auxiliary motor for burner
- Discharge valve: allows a complete discharge of the boiler
- Temperature regulator: the temperature is set-up by an electronic regulator
- Steam pressure gauge, temperature regulator and Low fuel lamp
- Integrated detergent tank with detergent delivery controller by the gun
- Double pipe gasoil pump
- User-friendly control panel
- Unit can be continually refilled
- Battery and battery charger included (Battery charger 230 V-50 Hz).

#### Standard equipment:

- 6.402.0085  
Hose 10 m 
- 6.402.0081 
- 6.402.0094 
- 6.405.0207 
- 6.402.0046 
- 6.402.0099 
- 3.749.0475 
- 4.008.0009 
- 4.407.0079 Steam nozzle 

#### Optional:

- 6.402.0080 Steam gun with hose (3,5 m)
- 6.402.0093 Steam gun with hose (15 m)
- 6.402.0090 Steam gun with hose (20 m)
- 0.011.0001 Calibrated sand (6 x 5 kg)
- 6.402.0112 Lance for barrel

|                                | Graffiti Waster            |
|--------------------------------|----------------------------|
| Code                           | 8.628.0027                 |
| Max steam pressure/temperature | 10 bar / 178° C            |
| Absorbed power                 | 350 W / 1 x 12 DC 75 Ah C5 |
| Steam production wet/dry       | 50/90 kg/h                 |
| Burner type/fuel consumption   | Diesel / 2,83 l/h          |
| Water tank/fuel tank capacity  | 25 l / 25 l                |



PAT. PEND.

## What you can do with Graffiti Waster...



Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)



**Graffiti Waster** is a portable steam generator, equipped with diesel fuel boiler, allowing graffiti and dirt removal in general, thanks to the revolutionary system using steam/sand and steam/detergent mashed together. To remove all types of graffiti away from walls, buildings, floors. To restore and clean statues/monuments. Sandblasting walls and railings. Clean and sand blasting terracotta tiles, roofing tiles and wood. Pickle machineries and surfaces thanks to a combined use of detergents. Unlimited autonomy: thanks to no-stop water tank refilling.

### Main plus in comparison to traditional sand blasting systems using air or water:

- It doesn't leave residuals at the end of cleaning task.
- No water waste.
- Noiseless.
- Allows sanitization tasks thanks to the combined use of steam and detergents.
- The operator doesn't need protective overalls and protective masks with filters.
- Lack of hazardous dust that are pulled down by steam.
- With a LAVORPro vacuum cleaner it is possible to carry out a deep cleaning of the area at the end of the cleaning task
- Portability: it doesn't need to be connected nor to water supply, because it is equipped with water tank, not to the electrical supply, because it has a diesel fuel boiler.
- Easy to use and always ready to use.
- Easy to move.



**In order to complete the chemical products supply and to allow a better applicability and effectiveness, the sprayers are the perfect solution when supply wideness, use versatility and dosage saving are taken into consideration.**

They are split into two different categories: pneumatic charge and continuous pneumatic charge.



Pneumatic charge sprayers need to be connected to an air compressor to charge the tank and allow the product vaporization without the connection to the air compressor. They work at high-pressures and so they use capacious steel or stainless steel tanks to allow a greater working autonomy.

Continuous pneumatic foam sprayers need a permanent connection to an air compressor; in this way air mixes with the chemical product producing a soft and voluminous foam that persists on surfaces: with a little chemical product, it is possible to treat wider areas or tough dirt (also on ceilings, inclined and/or slippery walls).

They work at high-pressure and so they use capacious steel or stainless steel tanks to allow a greater working autonomy.

The chemical product spraying is a finishing phase of cleaning task with other machines. The choice of the right product considering the kind of cleaning task grants the best result, complying with the environment and the machine that sprays the chemical product. Our chemical products range has been conceived complying with the strictest rules protecting the environment and avoiding the indiscriminating use of products damaging the environment. The right measuring and respect of the instructions we suggest are the best balance of the economical and technical needs of each up-to-date and aware cleaning task.

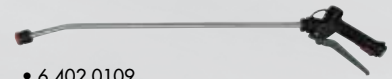
| Code       | Model        | Page | Product      | Capacity | Recharging    | Working pressure | Category | Single packaging weight | Single packaging weight | Single packaging dimensions | Pieces for pallet | Pallet dimensions |
|------------|--------------|------|--------------|----------|---------------|------------------|----------|-------------------------|-------------------------|-----------------------------|-------------------|-------------------|
|            |              |      |              | liters   |               | bar              |          | kg                      | lbs                     | cm L x l x H                | N°                | cm L x l x H      |
| 6.608.0074 | FOAM BOX     | 201  | Foam sprayer | -        | Air operating | 4                | Box      | 3 kg                    | 9,3                     | 44x13x25                    | -                 | -                 |
| 0.006.0002 | SPRAY NV24   | 202  | Sprayer      | 24       | Pneumatic     | 6                | Trolley  | 17 kg                   | 38                      | 34x34x82                    | 18                | 102x102x215       |
| 0.006.0003 | SPRAY NV50   | 202  | Sprayer      | 50       | Pneumatic     | 6                | Trolley  | 27 kg                   | 60                      | 47x47x107                   | 12                | 141x107x205       |
| 0.006.0007 | FOAMJET SV24 | 203  | Foam sprayer | 24       | Air operating | 6                | Trolley  | 17 kg                   | 38                      | 34x34x82                    | 18                | 102x102x215       |
| 0.006.0009 | FOAMJET SX24 | 203  | Foam sprayer | 24       | Air operating | 6                | Trolley  | 13 kg                   | 29                      | 34x34x82                    | 18                | 102x102x215       |
| 0.006.0008 | FOAMJET SV50 | 203  | Foam sprayer | 50       | Air operating | 6                | Trolley  | 27 kg                   | 60                      | 47x47x107                   | 12                | 141x107x205       |
| 0.006.0010 | FOAMJET SX50 | 203  | Foam sprayer | 50       | Air operating | 6                | Trolley  | 20 kg                   | 44                      | 47x47x107                   | 12                | 141x107x205       |



## Foam box



### Standard equipment:



• 6.402.0109

• 8m hose 3.099.0705



### Optional:

**3.697.0059** 4x5 kg foaming cleanser for commercial vehicles

**3.697.0057** 4x5 Kg alkaline foaming cleanser for food industry

**3.697.0058** 4x5 Kg foaming cleanser for hygiene facilities

**3.697.0056** 4x5 kg foaming cleanser for cloth and carpets

Device for dense foam production and spreading. Easy to install, it requires only compressed air connection and power supply.

Ideal for cleaning: car body, car interiors, bathrooms, kitchens, slaughterhouses, food processing areas, health care settings, cellars.



| Foam box                |                   |
|-------------------------|-------------------|
| code                    | 6.608.0074        |
| voltage                 | 220-240V ~ 50Hz   |
| pumps no. - power       | 2 - 100W          |
| air pressure            | 4 bar             |
| delivery rate           | 1 l/m             |
| detergent concentration | 4%                |
| dimension/weight        | 44 x 13 h 25/3 Kg |

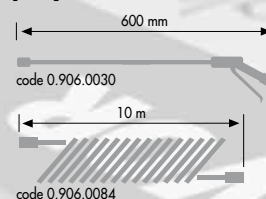
### Spray



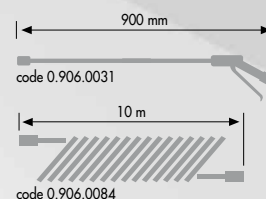
#### Standard accessories:

- Professional gun.
- Lance with nozzle.
- Integrated inlet and outlet quick.
- Chemical use hose and gasket.

#### Spray 24



#### Spray 50



**Spray:** Pneumatic charge sprayers need to be connected to an air compressor to charge the tank and allow the product vaporization without the connection to the air compressor. They work at high-pressures and so they use capacious steel or stainless steel tanks to allow a greater working autonomy.

|                    | SPRAY NV24                    | SPRAY NV50                     |
|--------------------|-------------------------------|--------------------------------|
| code               | 0.006.0002                    | 0.006.0003                     |
| capacity/model     | 24 l/painted                  | 50 l/painted                   |
| working pressure   | 6 bar                         | 6 bar                          |
| safety valve       | max 8 bar                     | max 8 bar                      |
| pressure indicator | pressure gauge                | pressure gauge                 |
| level indicator    | external column               | external column                |
| recharging         | pneumatic                     | pneumatic                      |
| pressure regulator | manual                        | manual                         |
| gun connection     | 1/4" G-F                      | 1/4" G-F                       |
| hose type          | rilsan                        | rilsan                         |
| hose/lance lenght  | 10 mt/600 mm                  | 10 mt/900 mm                   |
| dimension/weight   | 28x32x75 cm/15 kg - 33,06 lbs | 45x42x100 cm/25 kg - 55,11 lbs |

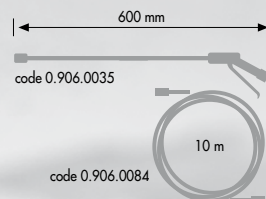
## Foamjet



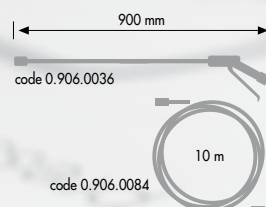
### Standard accessories:

- Professional gun.
- Lance with nozzle.
- Integrated inlet and outlet quick.
- Chemical use hose and gasket.

### Foamjet 24



### Foamjet 50



Continuous pneumatic foam sprayers need a permanent connection to an air compressor; in this way air mixes with the chemical product producing a soft and voluminous foam that persists on surfaces: with a little chemical product, it is possible to treat wider areas or tough dirt (also on ceilings, inclined and/or slippery walls). They work at high-pressure and so they use capacious steel or stainless steel tanks to allow a greater working autonomy.










































|                    | FOAMJET SV24                  | FOAMJET SX24                  | FOAMJET SV50                   | FOAMJET SX50                   |
|--------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|
| code               | 0.006.0007                    | 0.006.0009                    | 0.006.0008                     | 0.006.0010                     |
| capacity/model     | 24 l/painted                  | 24 l/S. S.                    | 50 l/painted                   | 50 l/S. S.                     |
| working pressure   | 6 bar                         | 6 bar                         | 6 bar                          | 6 bar                          |
| safety valve       | max 8 bar                     | max 8 bar                     | max 8 bar                      | max 8 bar                      |
| pressure indicator | pressure gauge                | pressure gauge                | pressure gauge                 | pressure gauge                 |
| level indicator    | external column               | external column               | external column                | external column                |
| recharging         | air operating                 | air operating                 | air operating                  | air operating                  |
| pressure regulator | manual                        | manual                        | manual                         | manual                         |
| gun connection     | 1/4" G-F                      | 1/4" G-F                      | 1/4" G-F                       | 1/4" G-F                       |
| hose type          | rilsan                        | rilsan                        | rilsan                         | rilsan                         |
| hose/lance lenght  | 10 mt/600 mm                  | 10 mt/600 mm                  | 10 mt/900 mm                   | 10 mt/900 mm                   |
| dimension/weight   | 28x32x75 cm/15 kg - 33,06 lbs | 28x32x75 cm/11 kg - 24,25 lbs | 45x42x100 cm/25 kg - 55,11 lbs | 45x42x102 cm/18 kg - 39,68 lbs |

### Technology



### Fields



| MODEL  | DESCRIPTION   | FIELDS  | PROPERTIES  | USE:  |
|--|---|---|---|---|
| <b>LCN-800F</b><br>code 3.697.0023<br>    | FRAGRANCE-FREE SANITISING DETERGENT   | <b>S1</b> <br><b>S3</b> <br><b>S4</b>  | Destroys unpleasant odours, fights the proliferation of bacteria, harmful micro-organisms, fungi and moulds. Contains quaternary ammonium salts.  | On all types of hard surface, dilute from 1 to 3%. In the case of tenacious contaminations and aggressive unpleasant odours, dilute up to 6%. |
| Ph 7.8 - 8.2<br>1,000 g/ml   |  5000 ml x 4 pz.   |   | <b>T1</b>  <b>T2</b>  <b>T3</b>  <b>T5</b>  <b>T7</b>            |   |
| <b>LCN-800</b><br>code 3.697.0024<br>     | FRAGRANCE SANITISING DETERGENT  | <b>S1</b> <br><b>S3</b> <br><b>S4</b>  | Destroys unpleasant odours, fights the proliferation of bacteria, harmful micro-organisms, fungi and moulds. Contains quaternary ammonium salts. Leaves a fresh and long-lasting fragrance in the environment.  | On all types of hard surface, dilute from 1 to 3%. In the case of tenacious contaminations and aggressive unpleasant odours, dilute up to 6%. |
| Ph 7.8 - 8.2<br>1,000 g/ml   |  5000 ml x 4 pz. |   | <b>T1</b>  <b>T2</b>  <b>T3</b>  <b>T5</b>  <b>T7</b>  |   |
| <b>LCN-680AL</b><br>code 3.697.0025<br> | ALCOHOLIC MAINTENANCE DETERGENT   | <b>S4</b>    | Quick-drying universal neutral detergent. Anti-dust effect for 4-5 days. Leaves a pleasant fragrance in the environment. Does not leave residues.   | On all types of washable shiny or hard surface such as glass, stone or ceramic, dilute with water from 0.5% to 1%.                            |
| Ph 6,6 - 7,0<br>1,000 g/ml   |  5000 ml x 4 pz. |   | <b>T1</b>  <b>T3</b>  <b>T5</b>  <b>T7</b>    |   |
| <b>LCN-650</b><br>code 3.697.0026<br>   | NON ALCOHOLIC MAINTENANCE DETERGENT   | <b>S4</b>    | Universal neutral detergent, does not corrode polymers, natural or synthetic waxes. Leaves a pleasant fragrance in the environment. Does not leave residues.  | On all types of washable hard surfaces, even if protected by wax and/or sealants, dilute in water to 0.5%-1%.                                 |
| Ph 6,3 - 6,7<br>1,000 g/ml   |  5000 ml x 4 pz. |   | <b>T1</b>  <b>T3</b>  <b>T7</b>    |   |
| <b>LCN-640WM</b><br>code 3.697.0027<br> | NON STRATIFYING WAX WASH DETERGENT  | <b>S4</b>    | Cleans and shines surfaces. Regenerates protective and wax treatments. Non filmogenous and leaves a pleasant fragrance in the environment.  | On all types of washable hard surfaces, including floors protected by wax and/or sealants, dilute in water to 0.5%-1%.                        |
| Ph 8,8 - 9,2<br>1,000 g/ml   |  5000 ml x 4 pz. |   | <b>T1</b>  <b>T2</b>  <b>T3</b>  <b>T5</b>  <b>T7</b>  |   |

Technology

**T1** manual cleaning  
 **T2** sprayer  
 **T3** carpet cleaner  
 **T4** high-pressure cleaner  
 **T5** steam cleaner  
 **T6** single disc machine  
 **T7** floor scrubber-drier

Fields

**S1** vehicles  
 **S2** mechanical industry  
 **S3** food industry  
 **S4** building

| MODEL                                    | DESCRIPTION                           | FIELDS   | PROPERTIES   | USE:   |
|--|---------------------------------------|--|--|--|
| <b>LCB-900WR</b><br>code 3.697.0030<br>  | FRAGRANCE-FREE WAX REMOVING DETERGENT | <b>S1</b><br><b>S3</b><br><b>S4</b>              | Removes any type of wax or polymer (even if old or stratified).  | According to the degree of dirt and the thickness of the film, dilute in water from 1% to 10%. In extreme situations, dilute in water up to 20%.                 |
| Ph 8,8 - 9,2<br>1,000 g/ml               | 5000 ml x 4 pz.                       |  | <b>T1</b> <b>T6</b> <b>T7</b>  |  |
| <b>LCB-740F</b><br>code 3.697.0031<br>   | ALKALINE MULTIPURPOSE DETERGENT       | <b>S1</b><br><b>S2</b><br><b>S3</b><br><b>S4</b> | Dissolves and detaches organic and inorganic dirt.   | On all types of hard washable surfaces, ceramic or enamelled surfaces, windows and doors, equipment and industrial machine tools. Dilute in water from 1% to 2%. |
| Ph (sol. 1%) 6.9 - 7.9<br>1,000 g/ml     | 5000 ml x 4 pz.                       |  | <b>T1</b> <b>T2</b> <b>T4</b> <b>T7</b>  |  |
| <b>LCN-600SVF</b><br>code 3.697.0033<br> | SOLVENT DETERGENT OF VEGETABLE ORIGIN | <b>S1</b><br><b>S2</b><br><b>S3</b><br><b>S4</b> | Eliminates tar, rubber, glue and adhesive residues. Removes even stratified (acrylic or polymer) wax films. Disintegrates persistent dirt of animal or mineral origin. | According to the degree of dirt and thickness of the film, dilute in water from 0.5% to 2%.  |
| Ph 5,8 - 6,2<br>0,950 g/ml               | 5000 ml x 4 pz.                       |  | <b>T1</b> <b>T2</b> <b>T5</b> <b>T6</b> <b>T7</b>  |  |
| <b>LCN-700</b><br>code 3.697.0035<br>    | CARPET AND TEXTILE WASH DETERGENT     | <b>S1</b>  | Removes dirt, regenerates and protects fibres. Does not leave residues and releases a pleasant fragrance.  | Dilute in water from 2% to 5%.   |
| Ph 6.8 - 7.2<br>1,010 g/ml               | 5000 ml x 4 pz.                       |  | <b>T3</b> <b>T5</b>  |  |

### Technology

T2  sprayer

T3  carpet cleaner

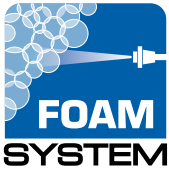
T4  high-pressure cleaner

T5  steam cleaner

### Fields

S1  vehicles

S3  food industry



## CHEMICAL PRODUCTS FOR DENSE FOAM PRODUCTION

### LC 104F



3.697.0059 4x5 kg



S1  T2  T3  T4  T5 

#### Foaming detergent for commercial vehicles

Monocomponent and alkaline detergent based on selected surfactants with a penetrating and softening action against both organic and inorganic dirt. It acts quickly and permanently, leaves no residue, is easy to rinse, does not alter painted parts made of plastic or rubber. Thanks to its high content of sequestrants, it maintains its detergent power even in the presence of hard water. Suitable for self-service high pressure washing plants, it can also be used in washing systems with nebulizer.

### LC 102F



3.697.0057 4x5 kg



S3  T2  T3  T4  T5 

#### Alkaline foaming cleanser for food industry

Alkaline chloroactive fast-acting product, it cleans and sanitizes the surfaces and the equipment which are treated without leaving any residue. Used with a foaming nebulizer, it produces dense foam which sticks on the walls, enhancing its sanitizing action. Also suitable for floors, workbenches, equipment, etc..., it is used in dairy farms, slaughterhouses, salami factories, oil mills.

### LC 103F



3.697.0058 4x5 kg



S3  T2  T3  T4  T5 

#### Foaming cleanser for hygiene facilities

Concentrated liquid detergent with acid pH. Ideal for cleansing stainless steel surfaces, it is used for cleaning and descaling all the acid-resistant surfaces. It effectively removes scale deposits, ferrous oxides and greasy surface dirt making the surfaces clean and without stains.

### LC 101F



3.697.0056 4x5 kg



S1  T3  T5 

#### Foaming cleanser for cloth and carpets

Product indicated for cleaning car interiors made of fabric and of carpet. Formulated with special suspending additives that have the characteristic of breaking the physical-chemical bonds existing between fiber and dirt, attracting the latter to the surface. These substances also avoid the redeposit of dirt guaranteeing excellent cleaning results. Highly foaming, it has to be used with special extraction vacuum cleaners. It brightens the colors and leaves a pleasant perfume.

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