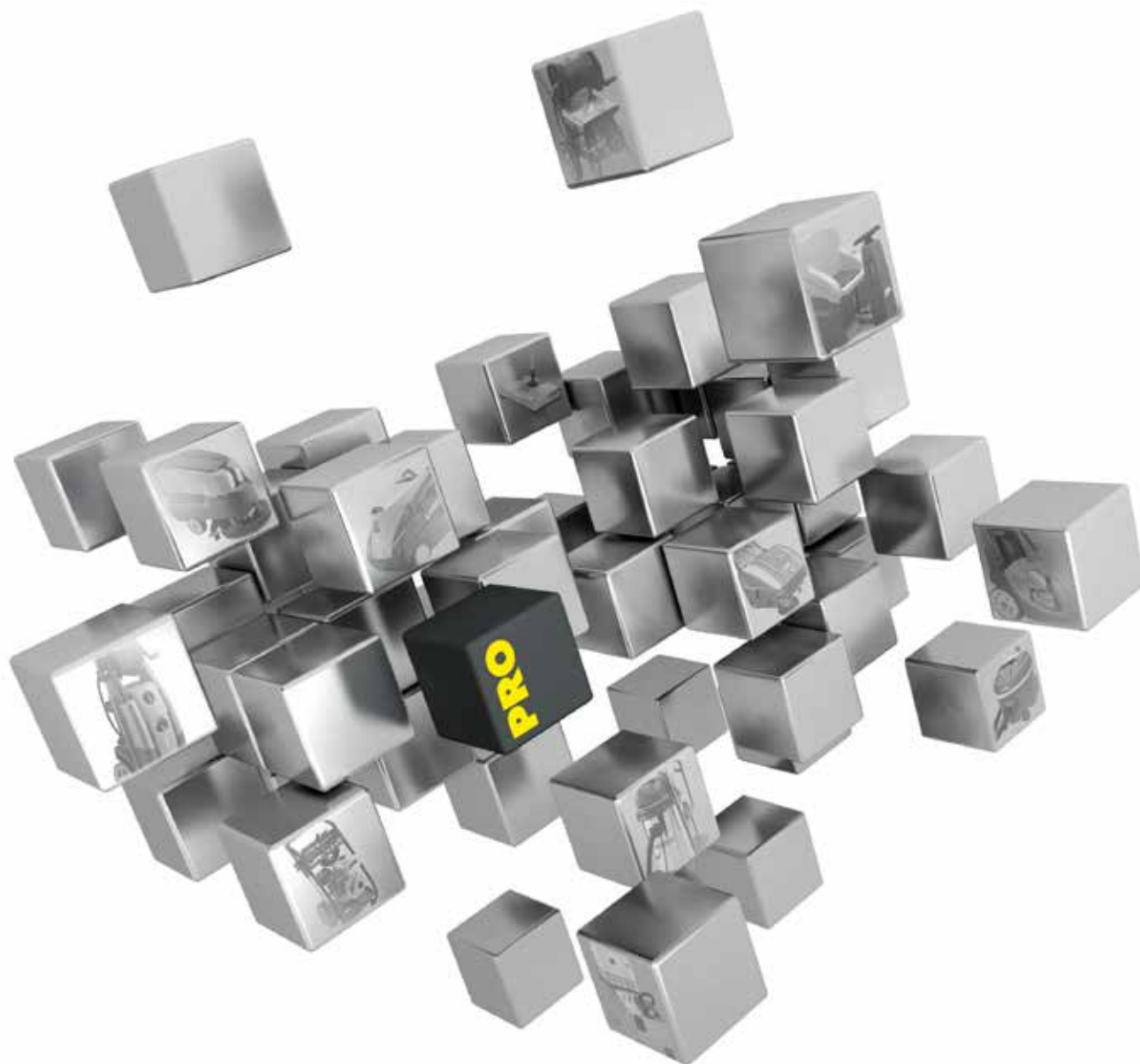


**LAVOR** **PRO**  
*works for you*

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Main catalogue **2018/19**





**www.lavorpro.com**

a website, full of useful information, offering expanded and constantly updated contents: each product sheet contains in addition to texts, technical specifications, standard and optional accessories and also the possibility to download technical data sheet and instruction manual as well.



# www.lavorpro.com

**www.lavorpro.com**

a website easy to explore and showing all the information about Lavor PRO products: it offers easy exploration and complete technical information. A website of modern concept helping our customer finding the necessary updated information about our products, easily and in real time. It offers complete product videos about machine running, machine use and plus of the main products of professional range: an additional very useful sales tool.

**www.lavorpro.com**

connecting to the Lavor PRO world is just a click away: complete information, products, videos and news available quickly and simply.

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





**Headquarter**

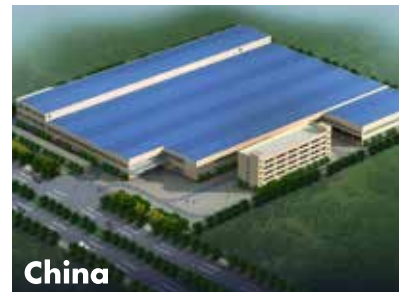
**Lavorwash Group** is worldwide leader in cleaning industry since 1975 and offers a wide and complete range of cleaning machinery suitable for any kind of applications, both indoor and outdoor relying on a forty-year experience. Over the years, Lavorwash has grown to become a specialist manufacturer of professional and household cleaning

systems, acquiring various leading brands and diversifying its own range to offer innovative products of excellence.



**United Kingdom**

**Lavorwash Group** 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.



**China**



**France**

**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



**Brazil**



**Spain**



**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%.





Cold water high-pressure  
cleaners **VANGUARD LINE**

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Cold water high-pressure  
cleaners **HERITAGE LINE**

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Cold water high-pressure cleaners  
with petrol engine

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Hot water high-pressure  
cleaners

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Dry vacuum cleaners  
Wet & dry vacuum cleaners

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Carpet cleaners

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**Industrial vacuum cleaners**

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**Walk-behind floor scrubber driers**

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Alaska XP



LMX XP



Arizona LP



Tucson LP



Tucson XL LP

Code	Model	Page	Operating pressure (max pressure)	Operating pressure (max pressure)	Delivery rate	Delivery rate	Absorbed power	RPM	Voltage	Max inlet water temperature	Weight with 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)
8.669.0001	ALASKA 1409 XP	12	140 (180)	2030 (2610)	540	2.4	2800	2800	230 - 50	40	28/62	39x39 h 61	18(120x80)
8.613.0001	LMX 1211 XP	13	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	13	50÷200 (220)	725÷2900(3190)	420	1.85	3300	2800	230 - 50	40	35.7/78	60x37,5 h 72.5	12(120x80)
8.665.0101	ARIZONA R 1209 LP	14	120 (150)	1740(2175)	510	2.23	2300	1450	230 - 50	40	30.5/67	60x38 h 72	12(120x80)
8.665.0106	ARIZONA R 1311 LP	14	130 (150)	1885(2175)	660	2.90	2900	1450	230 - 50	40	32.5/71	60x38 h 72	12(120x80)
8.671.0001	TUCSON 1211 LP	15	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	15	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	16	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	16	30÷200	435÷2900	1000	4.49	9400	1450	400 - 50	40	46/101	61x40 h 91	9(120x80)
8.672.0001	TUCSON XL 2015 LP	17	30÷200	435÷2900	900	3.96	7000	1450	400 - 50	40	66/145	61x40 h 91	9 (120x80)







Mystic R XP



Columbia R LP



Thermic 5H



Thermic 6,5



Thermic 9L

Code	Model	Page	Operating pressure (max pressure)	Operating pressure (max pressure)	Delivery rate	Delivery rate	Absorbed power	RPM	Voltage	Max inlet water temperature	Weight with 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)
8.672.0002	TUCSON XL 2021 LP	17	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	17	30÷250	435÷3600	900	3.96	9400	1450	400 - 50	40	73/161	61x40 h 91	9 (120x80)
8.661.0703	MYSTIC R 1409 XP	20	130 (150)	1885(2175)	540	2.38	2800	2800	230 - 50	40	32.5/71	60x38 h 72	12(120x80)
8.668.0027C	BOLT 1510 LP	21	130 (150)	1885(2175)	540	2.38	2800	2800	230 - 50	40	32/70	47x58 h 58	12(120x80)
8.654.1071	COLUMBIA R 1211 LP	22	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	22	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	22	30÷200	435÷2900	900	3.96	7000	1450	400 - 50	40	54/118	55x62 h 59	12 (120x100)
8.601.0107	THERMIC 5H	23	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	24	30÷180	435÷2610	690	2.77	6,5hp	3600	-	40	38/84	47x57 h 57	12 (120x100)
8.601.0188C	THERMIC 9 L	25	30÷200	435÷2900	780	3.44	9 hp	3400	-	40	53/116	70x57 h 70	9 (120x80)



## VANGUARD LINE

**Vanguard line is our line of products aimed to professional customers who seek , in addition to the robustness that distinguishes the LAVORPRO brand, design and ergonomics result of years of R & D study.**

**Each model is equipped with large wheels for easy transport, accessories storage facility, plastic shockproof structures and quiet operation.**

**The range includes two models 2800 rpm (Alaska and LMX) and 3 models 1450 rpm (Arizona, Tucson and Tucson XL) meeting all customer needs.**

### 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.



### • 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.

### Alaska XP



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

#### Equipped with:

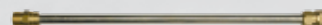
- Three steel pistons, brass axial pump head with built-in by-pass valve.
- Total Stop.
- Suction and delivery S. S. valves.
- Detergent built-in tank for indirect suction.
- Power cable holder.
- Accessory holder.
- Ergonomic handle.
- 1lt detergent tank.

#### Standard equipment:

- 6.001.0107 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

#### 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 96 - 28 Kg - 61,6 lbs



## LMX XP

**T.S.** Total Stop

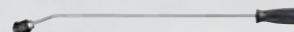


### Standard equipment:

- 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

### Arizona LP



**OPTIONAL**  
Available also version  
with hose reel

Code: 8.665.0110



**T.S.** Total  
Stop

#### Standard equipment:

- 6.001.0107 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

#### 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.

#### 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)

	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

## Tucson LP single-phase



**OPTIONAL**  
Available also version  
with hose reel

Code: 8.671.0005

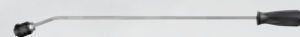


### Standard equipment:

- 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 LP three-phase



**OPTIONAL**  
Available also versions  
with hose reel

Code: 8.671.0006  
Code: 8.671.0007

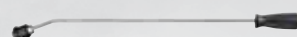


#### Standard equipment:

- 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

#### 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**).

#### 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)

	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
motor/pump 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



## Tucson XL LP

**NEW**



**CRANKSHAFT**

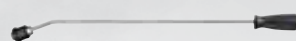


### Standard equipment:

- 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

## HERITAGE LINE

**"Less is more " is the philosophy that characterizes our HERITAGE range.**

All Heritage products are addressed to customers who want a high pressure cleaner with no compromises, equipped with metal trolley able to withstand shock and displacements. With Heritage we were able to combine the best of our technology and simple and durable frames, suitably treated to resist the weather condition and rustproof.

Heritage provides two 2800 rpm model (MYSTIC and BOLT) and a 1450 rpm model in three versions (COLUMBIA R), and an entire range with combustion engines up to 13 horses.

### 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 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**

**COOLING**

## • 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.



## • Thermal valve:

When the gun trigger is released, the same water flows through the pump (by-pass) and it overheats and sooner or later this damages the valve seals. With this completely mechanical system, the thermal valve checks the temperature in the pump, opening/closing the by-pass circuit letting new and fresh water flow inside before the elements are damaged. Simple solution without electronic devices.



## • 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.

### Mystic-R XP



**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:

- 6.001.0107 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



## Bolt LP



### 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

**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

### Columbia-R LP



Models:  
1515 LP - 2015 LP



Models: 1211 LP



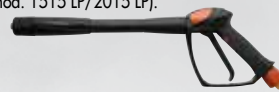
Models: 1515 LP/2015 LP

#### 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

## Thermic 5 H

POWERED by  
**HONDA**™



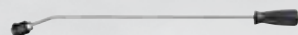
**T.V.** Thermal Valve

### 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



### 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.

	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



CRANKSHAFT



GASOLINE



T.V. Thermal Valve



#### Equipped with:

- Three S/S 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



### Equipped with:

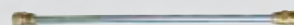
- Three ceramic coated pistons, brass linear pump head with built-in by-pass valve
- Suction and delivery S/S valves
- 9 HP unleaded gasoline engine.
- By-pass with safety valve.
- Integrated detergent suction with external suction probe.
- Pressure regulator.
- Suction hose with check valve (**optional**).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

### 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



### 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

**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:

**CRANKSHAFT** 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 XP



Dakota-R XP



NPX XP

Code	Model	pag	operating pressure (max. pressure)	operating pressure (max. pressure)	delivery rate	delivery rate	absorbed power	rpm	voltage	outlet temp.	fuel consumption	diesel tank	antiscall tank	heat output	packaging	packaging weight
			bar	psi	l/h	GPM usa	W									
8.699.0015	VULCANO 74	30	-	-	-	-	300	-	230-50	max 140°	5,6 - 1.5	18 - 4.8	-	74	113x71x111	103.6 - 228
8.625.0101	MISSISSIPPI R 1310 XP	31	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	32	30÷120	435÷1740	330÷660	1.45÷2.91	3200	2800	230-50	max 140°	3,7 - 0.97	16 - 4.2	-	58	69x85x111	94 - 207
8.633.0108	DAKOTA R 2007 XP	32	30÷150	435÷2175	330÷660	1.45÷2.91	4000	2800	400-50	max 140°	3,7 - 0.97	16 - 4.2	-	58	69x85x111	97 - 213
8.633.0109	DAKOTA R 1713 XP	32	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	33	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	33	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	34	30÷120	435÷1740	330÷660	1.45÷2.91	3000	1450	230-50	max 140°	3,8 - 1.0	16 - 4.2	-	-	69x85x111	104 - 229
8.630.0102	TEXAS R 1509	34	30÷150	435÷2175	330÷540	1.45÷2.40	3000	1450	400-50	max 140°	3,8 - 1.0	16 - 4.2	-	-	69x85x111	104 - 229







Texas-R XP



LKX LP



Tekna LP

Code	Model	operating pressure (max. pressure)		operating pressure (max. pressure)	delivery rate	delivery rate	absorbed power	rpm	voltage	outlet temp.	fuel consumption	diesel tank	antiscald tank	heat output	packaging	packaging weight
		pog	bar	psi	l/h	GPM usa	W		V	°C	l/h - gal/h	l - gal	l - gal	kW	cm	Kg - lbs
8.630.0103	TEXAS R 1611	34	30÷170	435÷2465	400÷660	1.76÷2.91	4300	1450	400÷50	max 140°	3,8 - 1.0	16 - 4.2			69x85x111	104 - 229
8.621.2947	LKX 1310 LP	35	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	36	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	36	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
8.622.0901	TEKNA 1515 LP	37	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	37	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	37	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

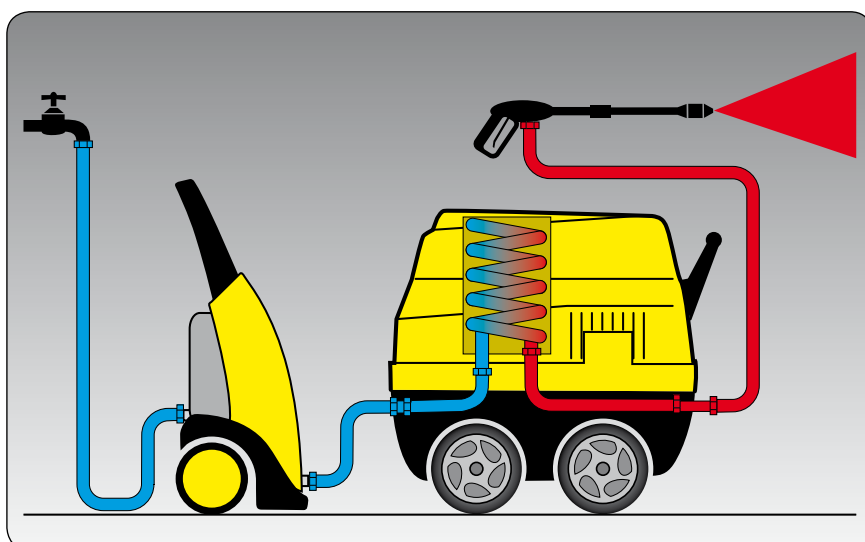


### Vulcano 74



#### 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 XP

**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 XP



#### 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

#### 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**).

#### Optional:

- 6.608.0073 Hose reel with brake (hose not included)

	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
motor/pump 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	75x58x103 cm/74 Kg - 163 lbs	75x58x103 cm/74 Kg - 163 lbs	75x58x103 cm/76 Kg - 167 lbs



## NPX XP



### 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 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.
- 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	94x65x90cm/112 Kg - 246 lbs	94x65x90cm/113 Kg - 275 lbs	94x65x90cm/128 Kg - 282 lbs



## LKX LP single-phase model



### Standard equipment:

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



- 3.701.0015 Lance M22 high/low pres.



- 3.103.0050 Nozzle type 045



- 4.618.0143 H. P. hose 10 m



- Power cable 5 m



### 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.
- 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**).

### 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	
code	8.621.2947
operat. pressure/max	110/150 bar-1595/2175 psi
delivery rate	660 l/h-2.91 GPM
abs. power/voltage	3000W - 230V~50Hz 1ph
motor/pump type/RPM	MP4/1450 RPM
max. water inlet/outlet temp.	40/140 °C
dimension/weight	94x65x90cm/112 Kg - 246 lbs





### LKX LP three-phase models



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

#### 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.
- 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 pres.



- 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

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



## Tekna LP



### 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 lt.)

### 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

### 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

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

3.749.0210	S. S. prolonged adjustable Ø 21 probe L = 500 mm
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### Sand-blasting head

Sand-blasting nozzles

3.749.0434	nozzle 0.40
3.749.0433	nozzle 0.45
3.749.0432	nozzle 0.50

## Accessories Vanguard line

			ALASKA 1409 XP	LMX 1211 XP	LMX 2007 XP	ARIZONA R 1209 LP	ARIZONA R 1311 LP	TUCSON 1211 LP	TUCSON 1509 LP	TUCSON 1713 LP	TUCSON 2017 LP	TUCSON XL 2015 LP	TUCSON XL 2021 LP	TUCSON XL 2515 LP
	3.700.0030	Gun 3/8" - M22 coupling (only for lance 3.701.0015 - 3.708.0001)	•	•				•	•	•	•	•	•	•
	3.700.0025	Gun RL 30 3/8" M - 1/4" F (only for lance 6.602.0049 - 6.602.0050)	•	•				•	•	•	•	•	•	•
	4.618.0049	8 m H.P. Hose - 3/8" M22 - Ø 1/4" - 210 bar						•	•					
	4.618.0012	10 m H.P. Hose - 3/8" - Ø 5/16" - 310 bar		•	•				•	•	•	•	•	•
	4.618.0056	20 m H.P. Hose - 3/8" - Ø 5/16" - 400 bar							•	•	•	•	•	•
	4.618.0057	20 m H.P. Hose - 3/8" - Ø 3/8" - 400 bar							•	•	•	•	•	•
	4.618.0058	10 m H.P. Hose for food industry - 3/8" - Ø 3/8" - 400 bar							•	•	•	•	•	•
	4.018.0003	8 m H.P. Hose - 1/4" M22 - Ø 1/4" - 210 bar	•				•	•						
	6.602.0049	mm 1700 S. S. 1/4" M - 1/8" F high/low press. (for det. suction) only for gun 3.700.0025	•	•				•	•	•	•	•	•	•
	6.602.0050	mm 1700 S. S. 1/4" M - 1/8" F lance with nozzle-holder - only for gun 3.700.0025	•	•				•	•	•	•	•	•	•
	6.602.0040	Lance Rotox type 1 M22 coupling - 0,45	•				•	•			•	•		•
	6.602.0041	Lance Rotox type 2 M22 coupling - 0,55							•					
	6.602.0060	Lance Rotox type M22 coupling - 0,30		•				•						
	6.602.0056	Lance Rotox type M22 coupling - 0,35	•		•									
	6.602.0042	Lance Rotox type M22 coupling - 0,70										•		
	6.602.0027	M22 coupling - 0,40 Widia sand-blasting lance	•	•		•	•	•				•		•
	6.602.0028	M22 coupling - 0,50 Widia sand-blasting lance							•	•				
	6.602.0029	M22 coupling - 0,75 Widia sand-blasting lance										•		
	3.701.0025	Double lance mm 500 with regulator knob max 250 bar with nozzle holder	•	•	•	•	•	•	•	•	•	•	•	•
	6.602.0003	Foam lance max temperature 90° C. For gun M 22 coupling max 250 bar	•	•	•	•	•	•	•	•	•	•	•	•
	6.602.0055	Foam lance with regulator max temp. 60° C - with M22 coupling	•	•	•	•	•	•	•	•	•	•	•	•
	6.602.0053	Foam lance with regulator max temp. 60° C - M22 coupling with tank 1 lt.	•	•	•	•	•	•	•	•	•	•	•	•
	3.102.0011	Water filter 3/4" F - 3/4" M 80 microns	•	•	•	•	•	•	•	•	•	•	•	•
	0.011.0001	Calibrated sand - 6 pieces of 5 kg each	•	•	•	•	•	•	•	•	•	•	•	•

• = suitable



## Accessories *Heritage line*

Accessories Heritage line			MYSTIC R 1409 XP	BOIT 1510 LP	COLUMBIA R 1211 LP	COLUMBIA R 1515 LP	COLUMBIA R 2015 LP
	3.700.0030	Gun 3/8" - M22			•	•	•
	3.700.0025	Gun RL 30 3/8" M - 1/4" F (only for lance 6.602.0049 - 6.602.0050)			•	•	•
	4.618.0012	10 m H.P. Hose - 3/8" - Ø 5/16" - 310 bar			•	•	
	4.618.0056	20 m H.P. Hose - 3/8" - Ø 5/16" - 400 bar			•	•	
	4.618.0057	20 m H.P. Hose - 3/8" - Ø 3/8" - 400 bar			•	•	
	4.618.0058	10 m H.P. Hose for food industry - 3/8" - Ø 3/8" - 400 bar			•	•	
	4.618.0050	10 m H.P. Hose - 3/8" F F - Ø 3/8" R2			•	•	
	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			•	•	•
	6.602.0040	Lance Rotox type 1 M22 - 0,45			•	•	
	6.602.0041	Lance Rotox type 2 M22 - 0,55				•	
	6.602.0056	Lance Rotox M22 - 0,35	•				
	6.602.0060	Lance Rotox M22 - 0,30		•			
	6.602.0027	M22 - 0,40 Widia sand-blasting lance	•	•	•	•	•
	6.602.0028	M22 - 0,50 Widia sand-blasting lance				•	
	6.602.0029	M22 - 0,75 Widia sand-blasting lance					
	3.701.0025	Double lance mm 500 with regulator knob max 250 bar with nozzle holder	•	•	•	•	•
	6.602.0003	Foam lance max temperature 90° C. For gun M 22 max 250 bar	•	•	•	•	•
	6.602.0055	Foam lance with regulator max temp. 60° C - with M22 coupling	•	•	•	•	•
	6.602.0053	Foam lance with regulator max temp. 60° C - M22 coupling with tank 1 lt.	•	•	•	•	•
	3.102.0011	Water filter 3/4" F - 3/4" M 80 microns	•	•	•	•	•
	0.011.0001	Calibrated sand - 6 pieces of 5 kg each	•	•	•	•	•

- = suitable

## 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 Hot Water high-pressure cleaners

			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 XP	TEXAS R 1509 XP	TEXAS R 1611 XP	LUX 1310 LP	LUX 1515 LP	LUX 2015 LP	TERNA 1515 LP	TERNA 2015 LP	TERNA 2021 LP
	3.700.0030	Gun 3/8" - M22	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	3.700.0025	Gun RL 30 3/8" M - 1/4" F (only for lance 6.602.0049 - 6.602.0050)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	4.618.0012	10 m H.P. Hose - 3/8" - Ø 5/16" - 310 bar					•	•	•	•	•	•	•	•	•	•	•
	4.618.0056	20 m H.P. Hose - 3/8" - Ø 5/16" - 400 bar					•	•	•	•	•	•	•	•	•	•	•
	4.618.0057	20 m H.P. Hose - 3/8" - Ø 3/8" - 400 bar							•	•	•	•	•	•	•	•	•
	4.618.0058	10 m H.P. Hose for food industry - 3/8" - Ø 3/8" - 400 bar												•	•	•	•
	4.618.0059	10 m H.P. Hose for steam - 3/8" - Ø 3/8" (MAX 135°C)					•	•	•	•	•	•	•	•	•	•	•
	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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	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 M22 - 0,70														•	•
	6.602.0056	Lance Rotox M22 - 0,35	•	•						•							
	6.602.0060	Lance Rotox M22 - 0,30		•						•							
	6.602.0027	M22 - 0,40 Widia sand-blasting lance	•	•		•	•	•	•	•	•	•	•	•	•	•	•
	6.602.0028	M22 - 0,50 Widia sand-blasting lance			•							•	•	•	•	•	•
	6.602.0029	M22 - 0,75 Widia sand-blasting lance														•	•
	3.701.0025	Double lance mm 500 with regulator knob max 250 bar with nozzle holder	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	6.602.0003	Foam lance max temperature 90° C. For gun M 22 max 250 bar	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	6.602.0055	Foam lance with regulator max temp. 60° C - with M22 coupling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	6.602.0053	Foam lance max temp. 60° C - M22 coupling with tank 1 lt.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	3.102.0011	Water filter 3/4" F - 3/4" M 80 microns	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	0.011.0001	Calibrated sand - 6 pieces of 5 kg each	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

• = suitable

## 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

### **Accessories High-pressure cleaners with combustion engine**

Accessories High-pressure cleaners with combustion engine						
				THERMIC 5 H	THERMIC 6,5	THERMIC 9 L
	3.700.0030	Gun 3/8" - M22		•		•
	3.700.0025	Gun RL 30 3/8"M - 1/4"F (only for lance 6.602.0049 - 6.602.0050)		•		•
	4.618.0012	10 m H.P. Hose - 3/8" - Ø 5/16" - 310 bar				•
	4.618.0056	20 m H.P. Hose - 3/8" - Ø 5/16" - 400 bar				•
	4.618.0059	10 m H.P. Hose for steam - 3/8" - Ø 3/8" (MAX 135°C)				•
	4.018.0003	8 m H.P. Hose - 1/4" - M22 - Ø 1/4" - 210 bar			•	
	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		•		•
	6.602.0040	Lance Rotox type 1 M22 - 0,45				•
	6.602.0056	Lance Rotox M22 - 0,35		•	•	
	6.602.0027	M22 - 0,40 Widia sand-blasting lance		•		•
	3.701.0025	Double lance mm 500 with regulator knob max 250 bar with nozzle holder		•	•	•
	6.602.0003	Foam lance max temperature 90° C. For gun M 22 max 250 bar		•	•	•
	6.602.0055	Foam lance with regulator max temp. 60° C - with M22 coupling		•	•	•
	6.602.0053	Foam lance with regulator max temp. 60° C - M22 coupling with tank 1 lt.		•	•	•
	3.102.0011	Water filter 3/4» F - 3/4» M 80 microns		•	•	•
	0.011.0001	Calibrated sand - 6 pieces of 5 kg each		•	•	•

- = suitable

## Water flow adjuster coupling



Code	Inlet	Outlet	Max. pressure			Max flow rate		Max temperature	
	A	B	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





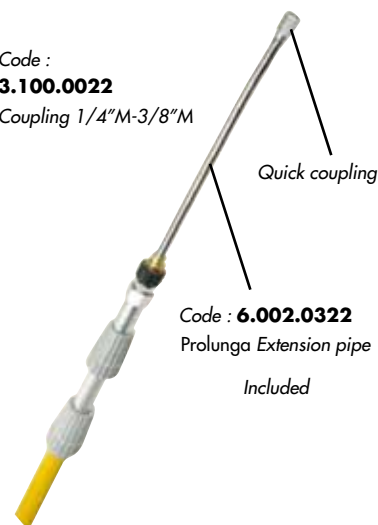
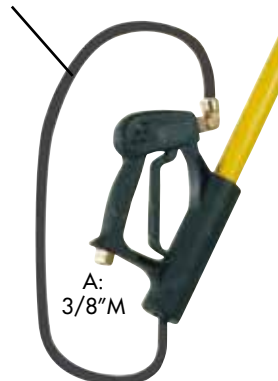
## Gun with extensible telescopic lance

Code :  
**4.018.0067**  
Spare hose

+

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

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

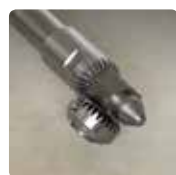


Code	Pressure			Flow rate		Length		Coupling	Temperature	
	bar	psi	MPa	l/m	GPM	min. mm	max. mm		°C	°F
3.749.0488	250	3625	25	40	10.5	2000	5000	3/8"M	150	302

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



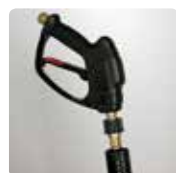
for Thermic 13H  
and Thermic 17 HW  
in combination with M24 nipple  
cod. 3.749.0320



- 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



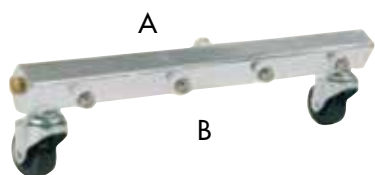
for Thermic 13H  
and Thermic 17 HW  
in combination with M24 nipple  
cod. 3.749.0320



- 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 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 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

## 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	Inlet	Outlet	Max. temperature
	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 20mt hose	3/8"F	3/8"F



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

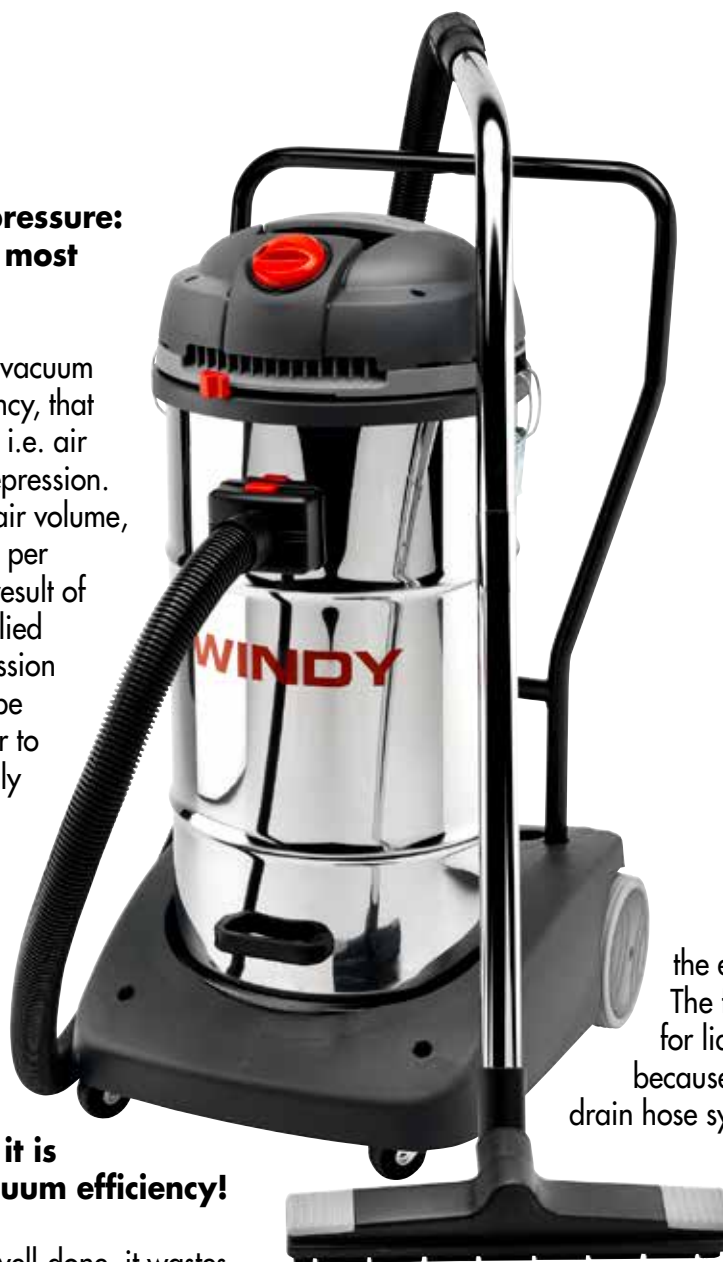
The right technical data of a vacuum cleaner is the vacuum efficiency, that is the mix of different values, i.e. air suction, motor power and depression. Air suction is the vacuumed air volume, commonly expressed in litres per seconds (l/sec) and it is the result of the average air speed multiplied by 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 depressure 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.



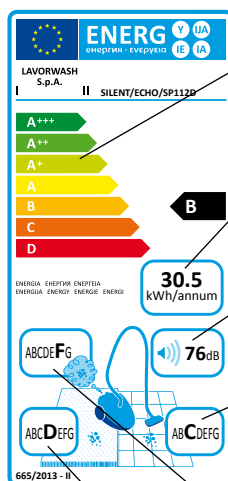
## Filter shaker

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.



### • The energy rating

Based primarily on energy consumption, with a penalty for low pick-up

### • Annual energy usage

The amount of energy the vacuum will use over the course of a year.

### • Noise

The noise level produced by the machine in decibels.

### • Pick-up Hard floors/crevices

The rating of how much dust the machine picks up from hard floors and crevices.

### • Emissions

The amount of dust in air emitted from the machine's exhaust.

### • Pick-up - Carpets

The rating of how much dust the machine picks up from carpets.

### Nomenclature

## Windy 365 IF

Number of motors

Tank capacity (litres)

F = Fixed

R = Tilting

P = Plastic

I = Stainless steel



Silent FR

Silent

Pro Worker

Windy 120 IF

Windy 130 IF

Windy 265 PF

Windy 265 IF

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	76 dB (A)	cm	kg	lbs	N°
8.246.0007	SILENT FR	50	220/240V - 50/60Hz	800/1000	24/2400	44 l/s	12 l	78 dB (A)	39x37x47	7,4	16	30
8.246.0001	SILENT	51	220/240V - 50/60Hz	800/900	24/2400	44 l/s	12 l	72 dB (A)	39x39x42	7,4	16	30
0.052.0004	PRO WORKER	52	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	55	220/240V - 50/60Hz	1200/1400	24/2400	65 l/s	20 l	79 dB (A)	39x40x54	10	22	24
8.250.0001	WINDY 130 IF	56	220/240V - 50/60Hz	1200/1400	24/2400	65 l/s	30 l	79 dB (A)	39x40x79	11	24	15
8.239.0008	WINDY 265 PF	57	220/240V - 50/60Hz	2000/2400	22/2200	130 l/s	65 l	79 dB (A)	60x48x87	18,8	41	8
8.239.0001	WINDY 265 IF	58	220/240V - 50/60Hz	2000/2400	22/2200	130 l/s	65 l	79 dB (A)	60x48x87	19,8	44	8





Windy 365 IF

Windy 278 PF

Windy 278 IF

Windy 378 PF

Windy 378 IR

GBP 20 Pro

Jupiter

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°
8.240.0001	WINDY 365 IR	59	220/240V - 50/60Hz	3000/3600	22/2200	195 l/s	65 l	79 dB (A)	65x55x104	25,5	56	4
8.247.0002	WINDY 278 PF	60	220/240V - 50/60Hz	2000/2400	22/2200	130 l/s	78 l	79 dB (A)	75x60x103	29,6	65	4
8.247.0001	WINDY 278 IF	61	220/240V - 50/60Hz	2000/2400	22/2200	130 l/s	78 l	79 dB (A)	75x60x103	29,6	65	4
8.256.0002	WINDY 378 PF	62	220/240V - 50/60Hz	3000/3600	22/2200	195 l/s	78 l	79 dB (A)	75x60x103	30,5	67	4
8.248.0001	WINDY 378 IR	63	220/240V - 50/60Hz	3000/3600	22/2200	195 l/s	78 l	79 dB (A)	75x60x103	30,5	67	4
8.204.0066	GBP 20 Pro	65	230V - 50Hz	1200/1400	27/2700	70 l/s	20 l	75 dB (A)	40x39x64	9,5	20,9	18
0.065.0001	JUPITER	66	230V - 50Hz	1100	23/2300	50 l/s	6,5 l	70 dB (A)	55x35x64	14	31	12

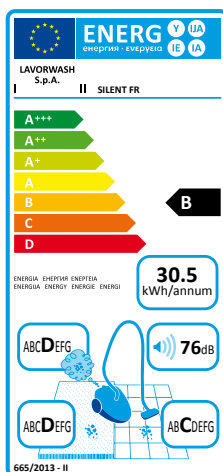
### Silent FR

**LONG LIFE  
MOTOR**

1  
MOTOR



HEPA



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

#### Equipped with:

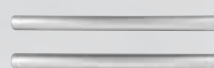
- Silenced single stage motor (high efficiency).
- Integrated accessory holder.
- Shock and overturn proof design.
- 12 litre plastic tank (PP)
- HEPA filter
- Rotating ON/OFF switch
- Microfiber collector filter HEPA flow
- High visibility safety power cable 12 m.

#### 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. 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)

#### 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

## 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



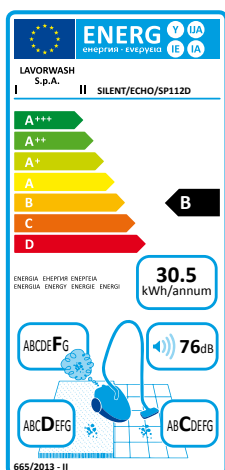
- Power cable 7,5 m

### 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 LAVORPro were conceived to meet the needs of floor care sector.**

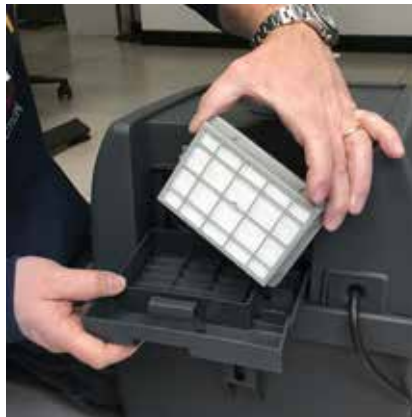
### Equipped with:

- 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

## PRO Worker EM

### Wet & dry vacuum cleaner



**PROWORKER** is the NEW LAVORPRO 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.

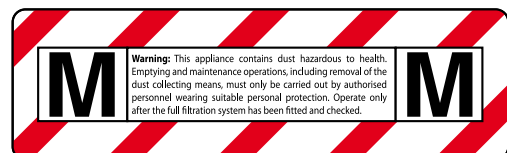
- **Ideal** for dust suction directly from the power tool during the following operations: drilling, milling, lapping, grinding and cutting
- **Suitable** for suction of plaster, stone, concrete, chalk, and wood dust, paints and enamels, in compliance with the standards on dust classifications
- **Essential** in building yards, body shops, joiner's shops, for installers, plumbers, maintainers and where it is necessary to clean after a job.

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.

PROWORKER is able to keep the 99,9% of all vacuumed dust with OEL (Occupational Exposure Limit) higher than a 0,1 mg/m<sup>3</sup>.

Some example of the dusts that can be kept with these vacuum cleaners are working residuals of: wood, copper, insecticide and pesticide, manganese (tools of the earth-moving equipments), platinum, nickel etc.







## 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
- Traceless wheels
- 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



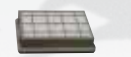
- 2x 3.752.0292



- 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	0.052.0004
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: New commercial wet & dry range of vacuum cleaners



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!



## Windy 120 IF

## Standard equipment:

- 5.209.0077 Hose 2,5 m



- 6.205.0109



- 3.754.0005



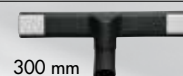
- 3.754.0015



- 3.754.0004



- 3.754.0168



- 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

1  
MOTOR



#### 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



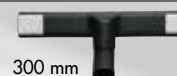
- 3.754.0015



- 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 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

	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 265 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



- 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)

### 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.

	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

**NEW**



#### 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



- 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



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



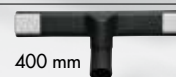
- 3.754.0048



- 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.
- 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



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

**NEW**



#### 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.
- 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



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



400 mm

- 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

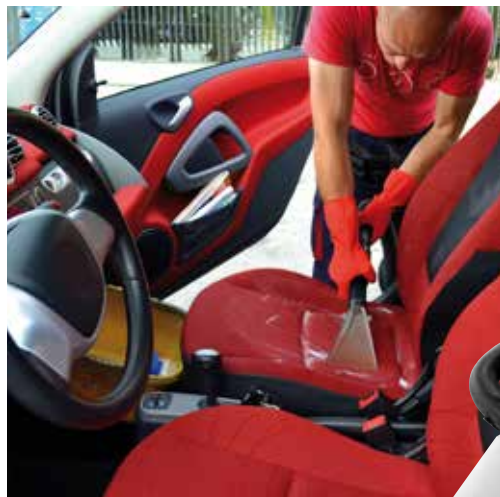


Watch the video on youtube:  
[www.youtube.com/lavorpro](http://www.youtube.com/lavorpro)

	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



### Injection extraction range



Lavorwash professional extraction/injection machines: **GBP 20 Pro**, **Jupiter** are the real solution to clean any type of textiles!

They are equipped with detergent pumps to assure always the right flow of injected chemical and are 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.

GBP 20 Pro and Jupiter, a range of injection/extraction cleaning machines ideal for car cleaning, as they can be used with liquid detergent.





## GBP 20 Pro



### Standard equipment:

- 5.209.0183 +
- 5.211.0094



- 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 litre plastic tank (PP)
- Shock proof trolley.
- Liquid float valve.
- 7,5 m power cable.
- Washable filter
- Paper collector filter
- Accessories Ø 35.

### Optional:

#### Hygienic PERFUME OPTIONAL



Code 0.010.0035  
100 ml x 4 pcs

#### 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

1  
MOTOR



#### 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



## Flexible hose Ø 35

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



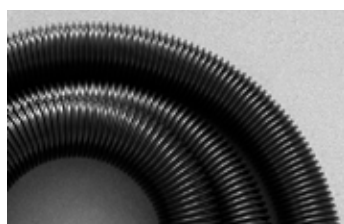
Code	Description	Ø
3.752.0118	Sleeve tank side	35



3.752.0028	Swivel straight accessories side	35
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3.753.0077	Swivel curved accessories side	35
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## 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
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## 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 Windy 278 PF - 278 IF - 378 PF - 378 IR 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.



### Gangway tool (only for liquid suction)

Code 0.110.0062

#### Ø 40 Gangway tool (only for Windy 378 IR model)

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





### Antifoam device

Code 0.110.0020



This device avoids the forming of foam that may affect the operation of the float.

### Turbo brush Ø 35

Code 3.754.0081



Ø 35 270 mm Turbo brush (for Silent, PRO Worker, Windy 120 IF, Windy 130 IF model)

This special brush grants top results, because it has an additional small rotary brush creating a sweeping effect that helps effective suction.



### 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.



MOTOR



MOTORS



MOTORS

#### 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

**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.

ELECTROSTATIC



#### 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)

SMX 77 2-24 S

Liters (tank) x 100 = 2400 W

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	Filtrating surface	Packaging	Packaging weight	Packaging weight	Pieces for pallet
			V-Hz (Ph)	W	kPa	l/s	l	dB(A)	cm²	cm L x l x H	kg	lbs	n°
0.056.0002	SMX77 2-24	72	230 V-50-60 Hz (1Ph)	2000	24 kPa	108 l/s	77 l.	74 dB(A)	4300 cm²	70x91x141	66	145,5	1
0.056.0004	SMX77 3-36	72	230 V-50-60 Hz (1Ph)	3000	24 kPa	162 l/s	77 l.	76 dB(A)	4300 cm²	70x91x141	67	147,7	1
0.045.0031	DMX 80 1-22 S	73	230 V-50 Hz (1Ph)	2200	32 kPa	97 l/s	80 l.	<74 dB(A)	4300 cm²	50x50x140	80	176	1
0.045.0032	DTX 80 1-30 S	73	400 V-50 Hz (3Ph)	3000	32 kPa	97 l/s	80 l.	<74 dB(A)	4300 cm²	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 lenght	7,5 m	7,5 m
dimensions/weight	70x91x141cm/66Kg-145.2 lbs	70x91x141cm/67Kg-147.4 lbs



## DMX80 DTX80

### 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



MOTOR



CLOTH FILTER



(Manual)



ELECTROSTATIC  
PROOF

### 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.




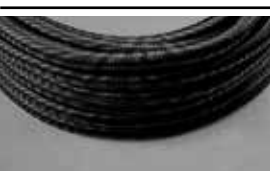
	DMX80 1-22 S	DTX80 1-30 S
code	0.045.0031	0.045.0032
abs. power W	2200	3000
n°/type motor	1x induction	1x induction
column depression	21 kPa (2100 mmH2O)	32 kPa (3200 mmH2O)
suction air	97 l/s	97 l/s
tank volume/dust capacity/liquid capacity	80/36/49 lt	80/36/49 lt
noise level	74 dB(A)	74 dB(A)
voltage	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

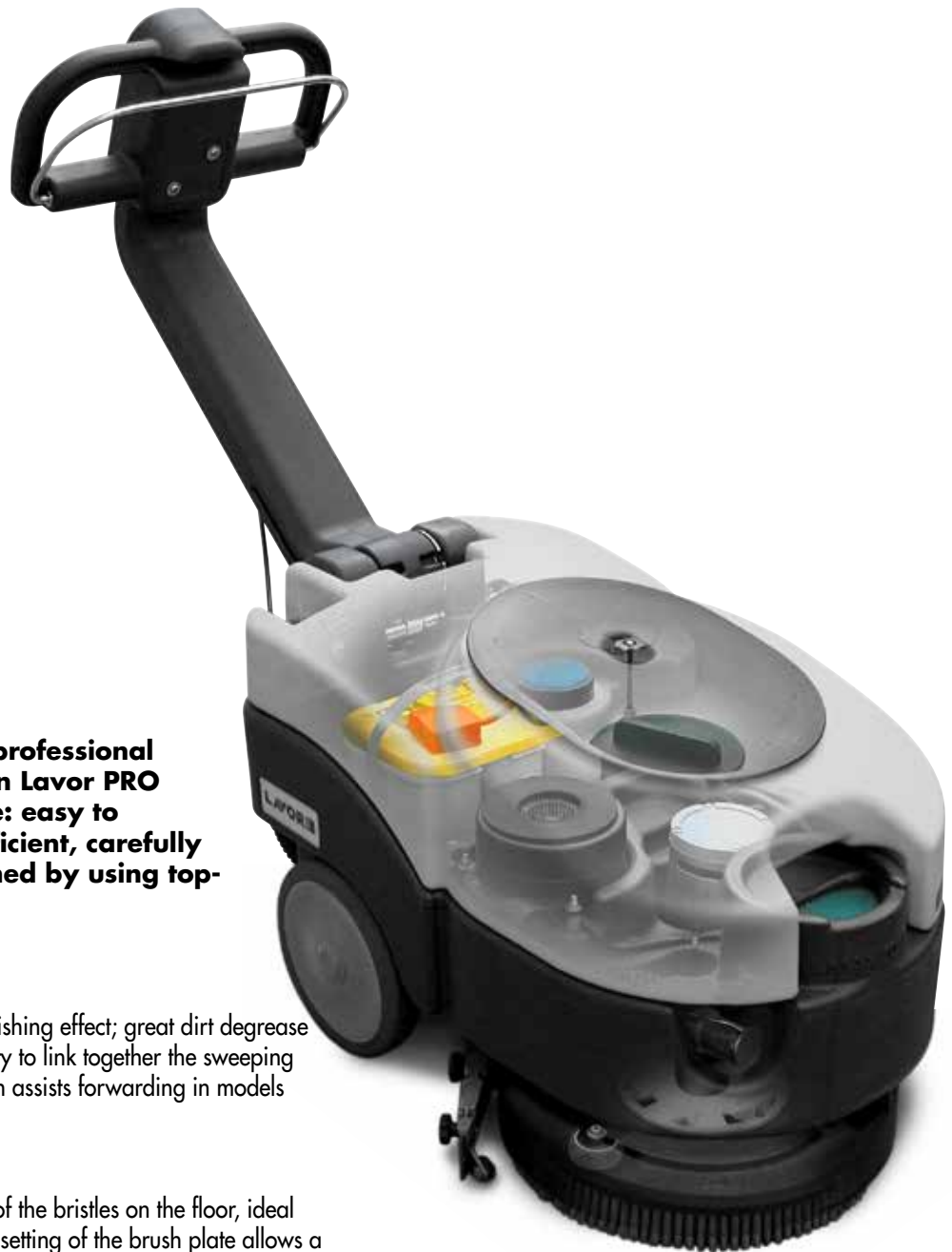
			SMX77 2-24	SMX77 3-36
	0.144.0047	Rubber sleeve for hose Ø 38 (2 necessary for hose 3.753.0050)	O	O
	0.144.0001	Antistatic rubber sleeve for hose Ø 50 (2 necessary for hose 7.753.0053)	O	O
	0.144.0002	Rubber sleeve for hose Ø 50 (2 necessary for hose 7.753.0051 o 7.753.0054)	O	O
	3.753.0050	EVA CONDUCTIVE 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)	O	O
	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)	O	O
	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)	O	O
	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)	O	O
	3.099.1077	Steel clamps for rubber sleeve Ø 50/Ø 38 (2 pcs for each hose)	O	O
	0.144.0011	Steel connection with button Ø 50/Ø 38 - accessory side	O	O
	0.144.0012	Ø 50 - steel double curve with joint coupling	O	O
	0.144.0013	Ø 50 - steel extension with joint coupling	O	O
	0.144.0014	Ø 50 - steel flat lance mm 500	O	O
	0.144.0021	Ø 50 - antistatic rubber conic bend lance	O	O
	0.144.0022	Ø 50 - antistatic rubber conic lance	O	O
	0.144.0015	Ø 50 - antistatic rubber round lance	O	O
	0.144.0019	Ø 50 - antistatic rubber suction lance	O	O
	0.144.0026	Ø 50 - stainless steel accessory for dust suction	O	O
	0.144.0027	Ø 50 - stainless steel accessory for wet suction	O	O
	0.144.0017	Ø 50 - PVC flat lance	O	O
	0.144.0018	Ø 50 - PVC round brush	O	O

O = optional

## Optional accessories

			DMX80 1-22	DTX80 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	Road 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



**Direct experience of professional people has resulted in LAVOR PRO 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.





path need with 1, 2 or 3 disc brushes.



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



- **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.

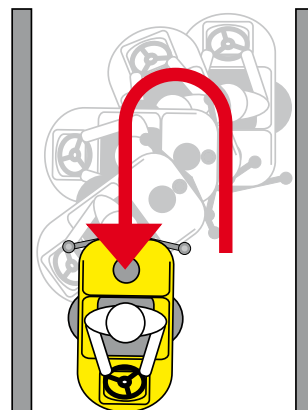


- **Eco Energy System**

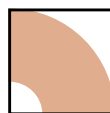
no-stop and separate control of water quantity and chemical product concentration with automatic and delayed stop of the supply when the machine stops (Automatic Detergent Measuring System).

- **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

Model

Next EVO 66 BTA

Scrubbing width

E = ELECTRIC

B = BATTERY

BT = BATTERY with TRACTION

A = Automatic brush plate lifting for walk behind



Sprinter



Crystal Clean



Quick



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	m²/h - ft²/h	l/gal	l/gal	L x l x H cm/inc	kg	lbs	n°
8.501.0501	Sprinter	80	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	82	230V/50HZ	1	290	320	1015-10925	2,8/0,74	5,6/1,48	100x40x42/39x16x17	19	42	15
8.518.0004	Quick 36E	84	230V/50HZ	1	360	460	1260-13562	11/2,91	12/3,17	81x56x80/32x22x32	62	135	1
8.518.0003	Quick 36B	84	12V	1	360	460	1260-13562	11/2,91	12/3,17	81x56x80/32x22x32	70	154	1
8.524.3302	Speed 45E Eco	86	230V/50HZ	1	450	800	1575-16952	25/6,61	28/7,39	113x61x110/44x24x43	93	205	1
8.524.0002	Speed 45B	86	24V	1	450	800	1575-16952	25/6,61	28/7,39	113x61x110/44x24x43	73	161	1
8.524.1002	Speed 45B	86	24V	1	450	800	1575-16952	25/6,61	28/7,39	113x61x110/44x24x43	114	251	1
8.580.0001	Dynamic 45E	88	230V/50HZ	1	450	540	1500-16145	30/7,9	35/9,24	117x58x78/46x22x30	88	194	1
8.580.0002	Dynamic 45B	88	24V	1	450	540	1500-16145	30/7,9	35/9,24	117x58x78/46x22x30	74	163	1
8.580.0003	Dynamic 45B	88	24V	1	450	540	1500-16145	30/7,9	35/9,24	117x58x78/46x22x30	112	247	1
8.527.0003	Free EVO 50E	90	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	90	24V	1	500	800	2000-21527	44/11,63	50/13,21	125x57x116/49,5x22,5x46	83	183	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	m²/h - ft²/h	l/gal	l/gal	L x l x H cm/inc	kg	lbs	n°
8.527.0001	Free EVO 50B	90	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	90	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	90	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	90	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	90	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	92	24V	1	550	800	2200-24210	55/14,52	65/17,17	142x72x123/56x28x48	133	293	1
8.525.1302	Next EVO 66BTA	92	24V	2	660	800	2640-28416	55/14,52	65/17,17	142x72x123/56x28x48	138	304	1
8.516.0406	Easy-R 50BT	94	24V	1	500	800	2250-24218	67/17,70	77/20,35	142x72x123/56x28x48	132	291	1
8.516.0407	Easy-R 55BT	94	24V	2	550	800	2475-26640	67/17,70	77/20,35	142x72x123/56x28x48	127	279	1
8.516.0415	Easy-R 66BT	94	24V	2	660	800	2970-31968	67/17,70	77/20,35	142x72x123/56x28x48	122	268	1
8.517.0105	Midi-R 75BT	96	24V	2	750	900	4275-46015	88/23,25	91/24,04	156x74x128/61x29x50	180	396	1
8.579.0001	Comfort XXS 66	98	24V	2	660	855	3250-34982	75/19,81	80/21,13	140x82x135/56x33x53	175	390	1
8.579.0002	Comfort XXS 66	98	24V	2	660	855	3250-34982	75/19,81	80/21,13	140x82x135/56x33x53	247	544	1
8.579.0011	Comfort XXS 66	98	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	100	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	100	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	102	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	102	24V	2	820	1000	6200-66000	110/29,06	130/34,34	152x97x154/59x39x61	229	504	1
8.575.0010	Comfort S-R 90	104	24V	2	900	1000	5740-61784	140/36,99	150/39,63	200x118x171/79x46x67	307	676	1
8.578.0004	Comfort M102	106	36V	2	1020	1250	7140-76854	200/52,84	210/55,48	200x118x171/79x46x67	386	850	1
8.572.0002	Comfort L122	108	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



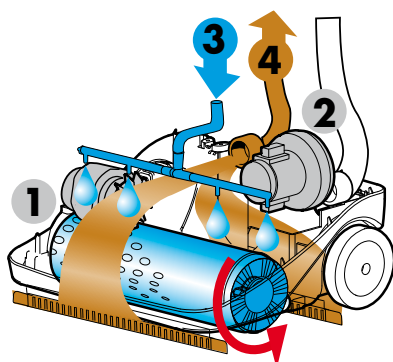
- 0.010.0034  
4 x 100 ml concentrated  
detergent



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.



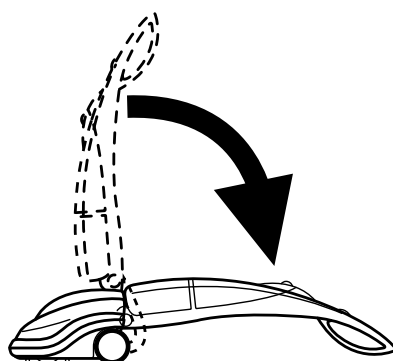
## Optional accessories:



- 6.505.0009  
Carpet cleaning kit



- 4.512.0068  
Extension electric cord 15 m with Schuko plug

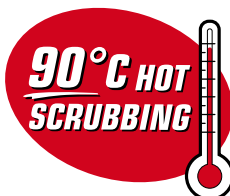


Minimum working height 200 mm, allowing perfect cleaning under furnitures, chairs, tables, beds, etc.  
The tilting handle makes easy and stressless the daily use of the machine.  
Large tank capacity avoiding frequent refilling of the unit

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



### Crystal Clean



#### 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



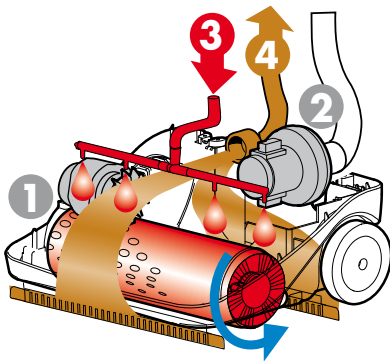
• 0.010.0034  
4 x 100 ml concentrated  
detergent



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

- 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.

	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:

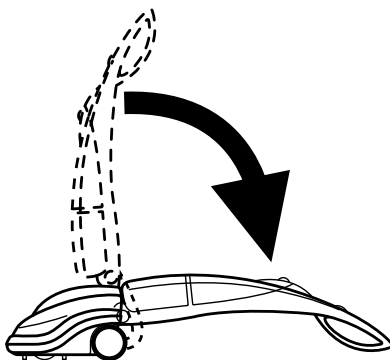


- 6.505.0009  
Carpet cleaning kit



- 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



### Quick



LEVEL



CHARGER



#### Standard equipment:



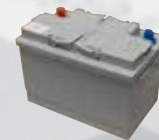
- 5.511.1346  
PP brush Ø 360 mm - 14"



- 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



- 0.108.0072  
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
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.)



- 4.512.0068 Extension electric cord 15 m with Schuko plug



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.





### Speed



### LEVEL



- 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, detergent dosing knob (optional), Thermal circuit breaker to protect vacuum and brush motor, battery level indicator, hour meter (optional).

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



### 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



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

**NEW**



**LEVEL**



- 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.

#### 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



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).

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.



### 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



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



- 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.

#### Standard equipment:



- 5.511.1097  
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)

	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/39,68 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.

### 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

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.



### 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:



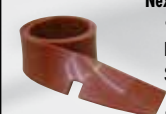
##### Next Evo 55

- 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

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.

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



### 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



- 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"



(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

- 5.511.1097  
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



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

- 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.

	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	128x71x106 cm/100 kg	128x71x106 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.

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.



### 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



### 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

#### Standard equipment:



Only codes  
8.579.0002  
8.579.0011



Only code  
8.579.0002



• 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)



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

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.**

	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.

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.



## 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



### 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



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

- 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.

	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 to 10 hours. 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 en bloc brush plate apply a very high pressure (50 kg) to the floor, strongly and deeply removing any kind of dirt.



## 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.)



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.



### Comfort XS-R Up



**STOP**

**LEVEL**



#### Standard equipment:



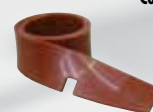
##### Comfort XS 75 Up

- 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



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

- Capable to work for the maintenance and deep cleaning of large areas (up to 4.000 m²) 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.

	Comfort XS-R 75 Up	Comfort XS-R 85 Up
code	8.574.4101	8.574.4103
power supply	24V (battery charger included)	24V (battery charger included)
scrubbing/squeegee width	750/900 mm	850/1000 mm
max working capacity	3750 m²/h	4100 m²/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/189 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.

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.



### 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 S-R



STOP  
LEVEL



#### 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



- 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.)

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.



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



STOP

LEVEL



#### 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.



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.



## 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 L



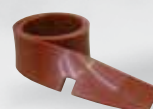
LEVEL



#### 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	15%/14%
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.

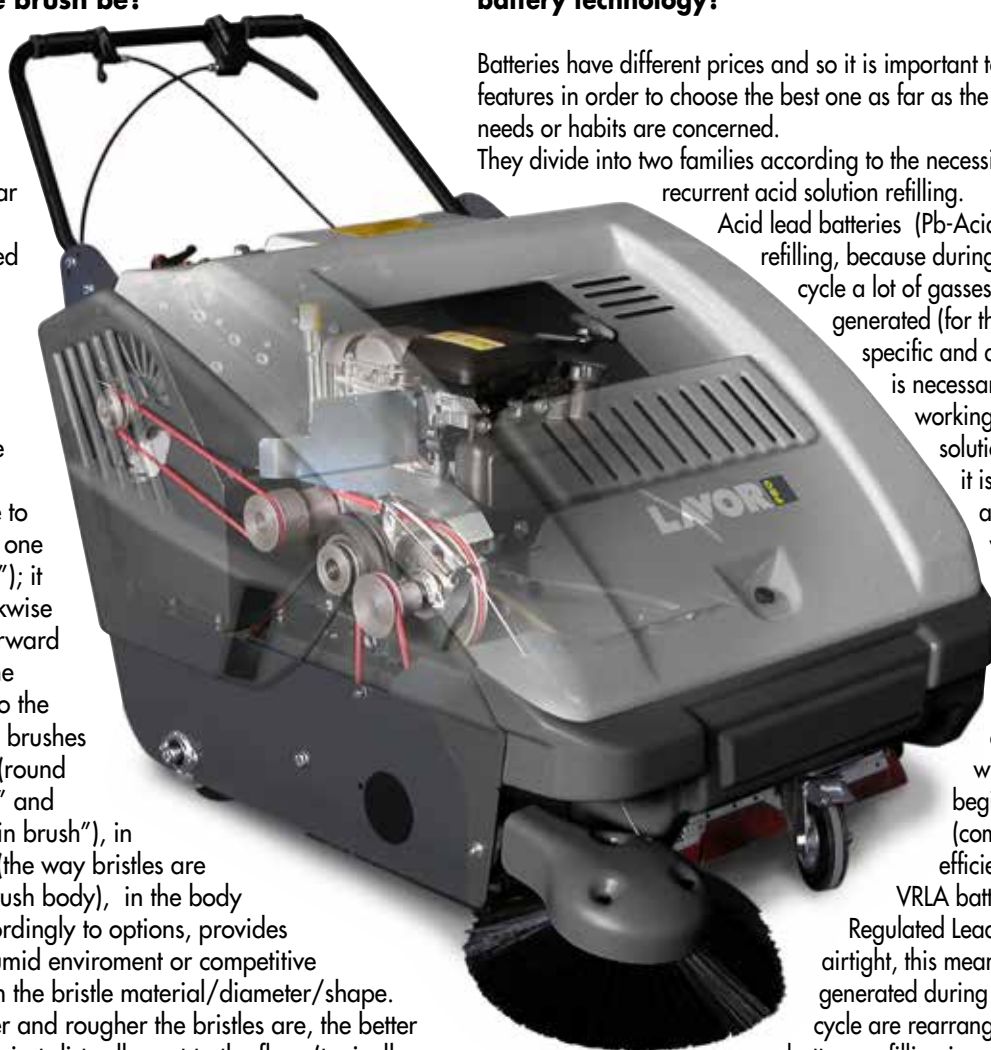
They divide into two families according to the necessity of recurrent acid solution refilling.

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

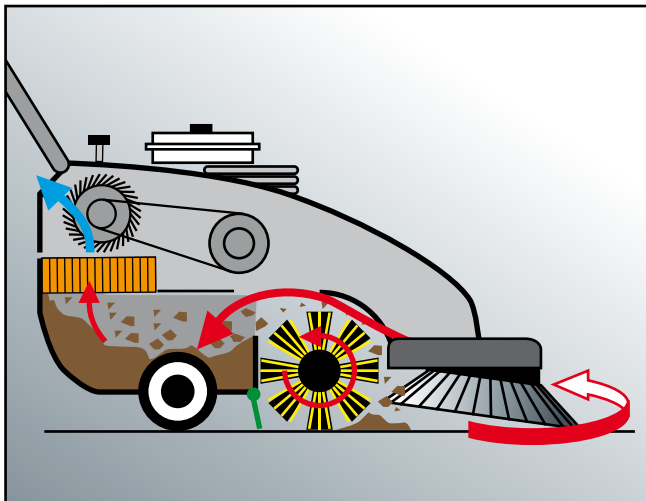
The main brush collection area is delimited by protections (flaps) touching the ground, better vacuum effect. With a big residual

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

Code	Model	Page	Type	Traction	Main brush width	Main brush + 1 side brush	Main brush + 2 side brushes	Collector tank	Max working capacity	Packaging dimensions	Weight with packaging	Weight with packaging	Pcs x pallet
					mm/inc	mm/inc	mm/inc	lt/gal	m²/foot²	L x l x H cm/inc	kg	lbs	n°
0.064.0001	BSW 375 ET	113	electric	Manual	350/13,78	-	375/14,76	2/0,52	1000/10764	41x61x16/16x24x6	4,8	6,16	48
0.042.0101	BSW 651 M	114	manual	Manual	500/19,68	700/27,56	-	40/10,58	1500/16146	78x77x44/31x30x17	25	55	5
0.061.0001	SWL 700 ET	115	electric	Mechanical	510/20,08	680/26,77	-	45/11,89	2620/28201	126x63x85/50x25x34	78	172	1
0.061.0002	SWL 700 ST	116	gasoline motor	Mechanical	510/20,08	680/26,77	-	45/11,89	2620/28201	126x63x85/50x25x34	77	169	1







## BSW 375 ET



Space-saving  
storage position.

### Standard accessories:



0.964.0017  
Cylinder brush



0.964.0018  
2 x Side brush



2 x 0.964.0002  
10.8V Lithium-Ion  
battery



0.964.0001  
Battery charger

### 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.



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>
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



#### 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.

#### Standard accessories:



0.942.0050 PP



0.942.0078 PP

#### Optional:

0.942.0079 Mixed steel side brush



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>
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

## SWL 700 ET



**ELECTRIC  
FILTER SHAKER**  
(electric version)



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
- 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.

### Standard accessories:



0.961.0008 PP



0.961.0005 PP



0.961.0001  
paper filter 14 µm

### 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

code	0.061.0001
main brush width	510mm/20,08 inc
main brush + 1 side brush width	680mm/26,77 inc
collector tank	45 lt/11,89 gal
max working capacity	2620 m <sup>2</sup> /h-28201 ft <sup>2</sup>
traction	automatic
max speed	4 km/h-2,49 mile/h
motor type/power	12V/400W
filtering surface	2 m <sup>2</sup> /21,53 ft <sup>2</sup>
pressure on the brushes	adjustable
filter shaker	electric
dimension/weight	126x63x85cm/78kg



### SWL 700 ST

MANUAL  
FILTER SHAKER



#### Equipped with:

- Ideal for medium and large surfaces
- Large filter surface with manual filter shaker
- 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.

#### Standard accessories:



0.961.0012  
PP-Mixed steel



0.961.0005 PP



0.961.0001  
paper filter 14 µm

#### Optional:



0.961.0028 Side  
brush protection



0.961.0016  
PE panel filter  
5µm



0.961.0018  
HEPA panel  
filter

- 0.961.0026 Trolley for collector tank set



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


	SWL 700 ST
code	0.061.0002
main brush width	510mm/20,08 inc
main brush + 1 side brush width	680mm/26,77 inc
collector tank	45 lt/11,89 gal
max working capacity	2620 m <sup>2</sup> /h-28201 ft <sup>2</sup>
traction	automatic
max speed	4 km/h-2,49 mile/h
motor type/power	Honda 4 HP/2,9kW
filtering surface	2 m <sup>2</sup> /21,53 ft <sup>2</sup>
pressure on the brushes	adjustable
filter shaker	manual
dimension/weight	126x63x85cm/77kg



## Accessories

			BSW 651 M	SWL 700 ET	SWL 700 ST
	0.961.0001	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
	0.942.0037	PP side brush	S		
	0.961.0005	PP side brush		S	S
	0.961.0181	mixed steel side brush		O	O
	0.942.0050	PP main brush	S		
	0.961.0008	PP - moplen body main brush - bristle d. 0,5 mm		S	O
	0.961.0012	mixed steel - moplen body main brush		O	S
	0.107.0002	Tubular battery Pb-acid - 12V 118Ah C5		O1	
	0.107.0063	GEL Battery - 12V 105Ah C5		O1	
	0.107.0004	Tubular battery Pb-acid - 6V 180Ah C5		O2	
	0.107.0072	GEL Battery - 6V 180Ah C5		O2	

(1)-(2)= n° batteries

	0.108.0001	Battery charger LWS 1-12/24V-12A (for battery 0.107.0002-0.107.0063)
	0.108.0002	Battery charger LWS 2-12/24V-25A (for battery 0.107.0004-0.107.0072)



**GV series is suitable to degrease 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

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 L x l x h	kg	lbs	n°
8.404.0051	GV KONE	122	2300	-	4	2,6	143	10	2,4	-	470x330x350	8	17,64	25
8.406.0015	GV Egon VAC	124	1900	1200	5	2,3	152	2	1,2	-	550x400x500	14	30,86	16
8.451.0201	GV ETNA 4.1	126	3000	1100	7	3,25	165	4	5	5	750x600x1030	42,5	93,69	4
8.451.0210	GV ETNA 4.1 FR	126	3000	1100	7	3,25	165	4	5	5	750x600x1030	42,5	93,69	4
8.451.0208	GV ETNA 4000 FOAM	128	3000	1500	7	3,25	165	4	5	5	750x600x1030	42,5	93,69	4







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 L x l x h	kg	lbs	n°
8.453.0001	GV KATLA	130	3300	-	9	4,62	175	7	5	5	750x600x700	31	91,27	10
8.450.0010	GV 3.3M PLUS	132	3300	-	9	4,62	175	7	5	5	595x435x650	37	81,57	2
8.458.0001	GV 8 T PLUS	134	8000	-	9	13,50	175	6	10	5	595x435x650	40	88,18	2



### 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	Aluminium/2,4 l



Lavor PRO 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

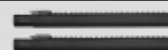


#### Standard Equipment

• 5.211.0090



• 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



#### 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

	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).



**NEW**



### 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	7 bar/165° C	7 bar/165° C
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.

Hot air output blow function for quick drying of car interiors with a 2 m flexible hose and flat nozzle supplied. 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)

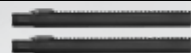


#### Standard equipment:

- 5.211.0123 Hose 4 m



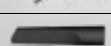
- 3.753.0141



- 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



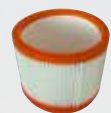
- 3.754.0260



- 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	7 bar/165° C
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.



Hot air output blow function for quick drying of car interiors with a 2 m flexible hose. 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 + 11 LC prefoam.

## Fields of applications

**Steam system:** Food & beverage (food industry, catering, beverage, winery).

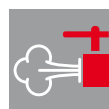
Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).

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



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.

#### Standard equipment:

- 5.409.0256 Hose 3 m



- 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

	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

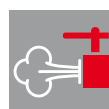
### Steam system:

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



- 3.753.0111



- 3.754.0228



- 3.754.0229



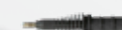
- 3.754.0235



- 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).

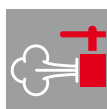
Industry (industry, transportation, car washers, car dealers).



## GV 8 T plus



**NO-STOP  
REFILLING**



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

## Equipped with:

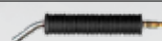
- Built-in AISI 304 stainless steel
- Pivoting wheels with brakes, suitable for use in food processing areas
- The boiler can be refilled from the tank provided (continuous duty)
- Discharge valve
- Pressure gauge
- Device for using chemicals and detergents mixed with steam
- Heating and activation time 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.

## 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

## 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).



**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.

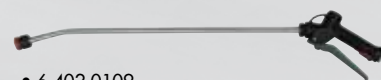
Code	Model	Page	Product	Capacity liters	Recharging	Working pressure bar	Category	Single packaging weight kg	Single packaging weight lbs	Single packaging dimensions cm L x l x H	Pieces for pallet N°	Pallet dimensions cm L x l x H
6.608.0074	FOAM BOX	137	Foam sprayer	-	Air operating	4	Box	3 kg	9,3	44x13x25	-	-
0.006.0002	SPRAY NV24	138	Sprayer	24	Pneumatic	6	Trolley	17 kg	38	34x34x82	18	102x102x215
0.006.0003	SPRAY NV50	138	Sprayer	50	Pneumatic	6	Trolley	27 kg	60	47x47x107	12	141x107x205
0.006.0007	FOAMJET SV24	139	Foam sprayer	24	Air operating	6	Trolley	17 kg	38	34x34x82	18	102x102x215
0.006.0009	FOAMJET SX24	139	Foam sprayer	24	Air operating	6	Trolley	13 kg	29	34x34x82	18	102x102x215
0.006.0008	FOAMJET SV50	139	Foam sprayer	50	Air operating	6	Trolley	27 kg	60	47x47x107	12	141x107x205
0.006.0010	FOAMJET SX50	139	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

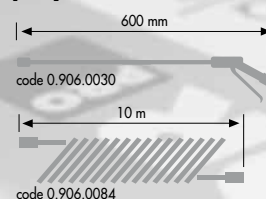
### Spray



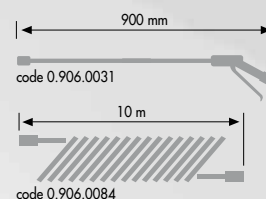
#### Standard accessories:

- 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

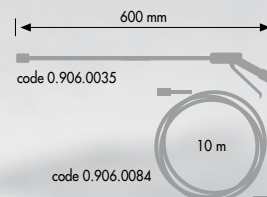
## Foamjet



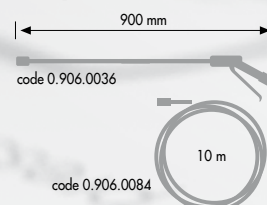
### Standard accessories:

- 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	rilson	rilson	rilson	rilson
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








<b>T1</b>  manual cleaning	<b>T2</b>  sprayer	<b>T3</b>  carpet cleaner	<b>T4</b>  high-pressure cleaner	<b>T5</b>  steam cleaner	<b>T6</b>  single disc machine	<b>T7</b>  floor scrubber-drier
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### Fields









<b>S1</b>  vehicles	<b>S2</b>  mechanical industry	<b>S3</b>  food industry	<b>S4</b>  building
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MODEL	DESCRIPTION	FIELDS	PROPERTIES	USE:
<b>LCN-800F</b> code 3.697.0023 	FRAGRANCE-FREE SANITISING DETERGENT	<b>S1</b>  <b>S3</b>  <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 1,000 g/ml	 5000 ml x 4 pz.		<b>T1</b>  <b>T2</b>  <b>T3</b>  <b>T5</b>  <b>T7</b> 	

MODEL	DESCRIPTION	FIELDS	PROPERTIES	USE:
<b>LCN-800</b> code 3.697.0024 	FRAGRANCE SANITISING DETERGENT	<b>S1</b>  <b>S3</b>  <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 1,000 g/ml	 5000 ml x 4 pz.		<b>T1</b>  <b>T2</b>  <b>T3</b>  <b>T5</b>  <b>T7</b> 	

MODEL	DESCRIPTION	FIELDS	PROPERTIES	USE:
<b>LCN-680AL</b> code 3.697.0025 	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 1,000 g/ml	 5000 ml x 4 pz.		<b>T1</b>  <b>T3</b>  <b>T5</b>  <b>T7</b> 	

MODEL	DESCRIPTION	FIELDS	PROPERTIES	USE:
<b>LCN-650</b> code 3.697.0026 	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 1,000 g/ml	 5000 ml x 4 pz.		<b>T1</b>  <b>T3</b>  <b>T7</b> 	

MODEL	DESCRIPTION	FIELDS	PROPERTIES	USE:
<b>LCN-640WM</b> code 3.697.0027 	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 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












<b>T1</b>  manual cleaning	<b>T2</b>  sprayer	<b>T3</b>  carpet cleaner	<b>T4</b>  high-pressure cleaner	<b>T5</b>  steam cleaner	<b>T6</b>  single disc machine	<b>T7</b>  floor scrubber-drier
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## Fields

<b>S1</b>  vehicles	<b>S2</b>  mechanical industry	<b>S3</b>  food industry	<b>S4</b>  building
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MODEL	DESCRIPTION	FIELDS	PROPERTIES	USE:
<b>LCB-900WR</b> code 3.697.0030 	FRAGRANCE-FREE WAX REMOVING DETERGENT	<b>S1</b>  <b>S3</b>  <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 1,000 g/ml	 5000 ml x 4 pz.		<b>T1</b>  <b>T6</b>  <b>T7</b> 	

MODEL	DESCRIPTION	FIELDS	PROPERTIES	USE:
<b>LCB-740F</b> code 3.697.0031 	ALKALINE MULTIPURPOSE DETERGENT	<b>S1</b>  <b>S2</b>  <b>S3</b>  <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 1,000 g/ml	 5000 ml x 4 pz.		<b>T1</b>  <b>T2</b>  <b>T4</b>  <b>T7</b> 	

MODEL	DESCRIPTION	FIELDS	PROPERTIES	USE:
<b>LCN-600SVF</b> code 3.697.0033 	SOLVENT DETERGENT OF VEGETABLE ORIGIN	<b>S1</b>  <b>S2</b>  <b>S3</b>  <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 0,950 g/ml	 5000 ml x 4 pz.		<b>T1</b>  <b>T2</b>  <b>T5</b>  <b>T6</b>  <b>T7</b> 	

MODEL	DESCRIPTION	FIELDS	PROPERTIES	USE:
<b>LCN-700</b> code 3.697.0035 	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 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




**NEW**

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




**NEW**


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




**NEW**


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




**NEW**

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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for high pressure cleaners designing  
and manufacturing.



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