

# LAVOR **PRO**

*works for you*



Main catalogue  
2009/10 



[www.lavorpro.com](http://www.lavorpro.com)



### Lavor is on line

offering a website rich with information about the company and its products. The site is easy to explore thanks to a navigation system organised around simple and straightforward steps, with continually updated data.

### www.lavorpro.com

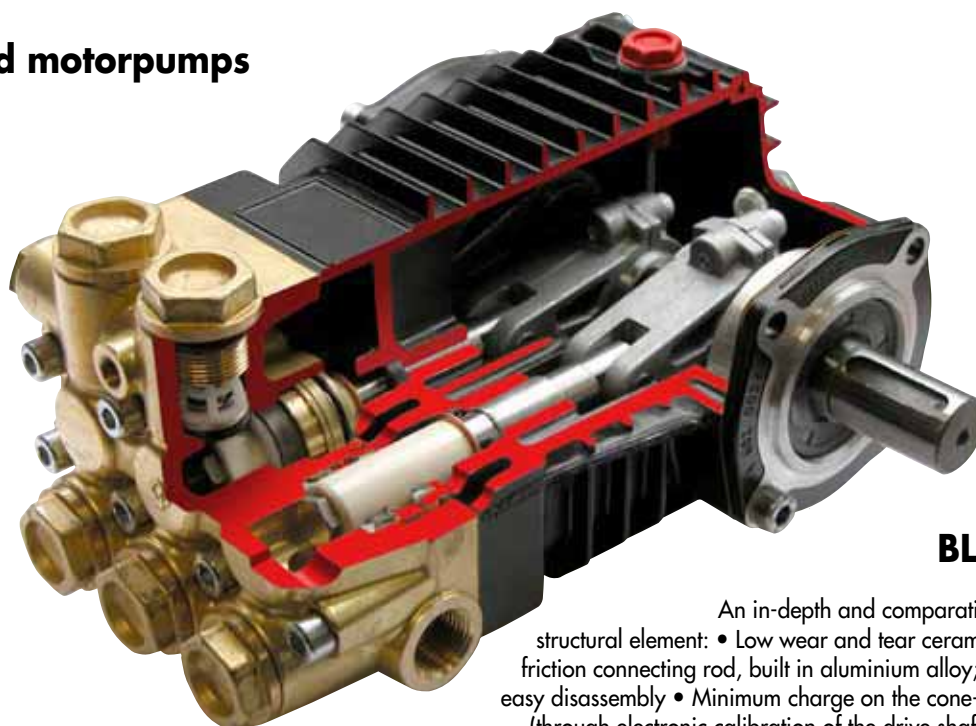
also features a B2B service enabled by accessing a reserved area after registering your own personal password. Orders are simple to make and send, ensured by the speed with which it is possible to consult our products and thanks to our "shopping basket" feature. The site also includes a series of instant icons to review and check the status of your order as well as see past orders.

### www.lavorpro.com

connecting to the LAVOR world is just a click away: information, products and news at the fingertips of every navigator.



## Pumps and motorpumps

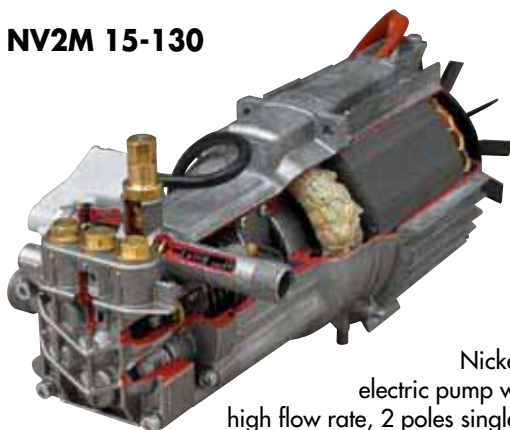
**BL4 21-200**

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

		NV2M 15-130	NX2M 9-130	BX2M 9-130	BX2 13-200	BX4 11-150	BL4 12-160	BX4 15-200	BL4 21-200
<b>Pump type</b>		Axial					Linear	Axial	Linear
<b>Material</b>	<b>Head</b>	Nickel-plated Aluminium			Brass				
	<b>Wobble plate</b>	Aluminium					-	Steel	-
	<b>Connecting rod</b>	-					Aluminium	-	Aluminium
	<b>Valves</b>	Thermoplastic resin			Thermoplastic resin with stainless steel plate				
	<b>Pistons</b>	Stainless steel			Stainless steel and ceramic				
<b>Ø pistons</b>		12 mm	15 mm	15 mm	15 mm	18 mm	15 mm	18 mm	20 mm
<b>Water seals</b>	<b>Hight press.</b>	"U" section NBR			"U" section NBR				
	<b>Low press.</b>	"U" section NBR							
<b>By-pass valve</b>		Integrated with separated seat							Separated
<b>Pressure regulator</b>		-	Integrated						on By-pass
<b>Max operating pressure</b>		130 bar	130 bar	130 bar	200 bar	150 bar	160 bar	200 bar	200 bar
<b>Max delivery rate</b>		15 l/min	9 l/min	9 l/min	13 l/min	11 l/min	12 l/min	15 l/min	21 l/min
<b>Detergent suction</b>		Low pressure				High/low pressure			
<b>Motor</b>		2 Poles air cooled max 2,6 Kw	2 Poles air cooled max 2,6 Kw	2 Poles air cooled max 2,6 Kw	2 Poles air cooled max 4,7 Kw	4 Poles air cooled max 3,7 Kw	4 Poles air cooled max 4,0 Kw	Poles H <sub>2</sub> O cooled max 7,0 Kw	4 Poles H <sub>2</sub> O cooled max 9,4 Kw
<b>Total Stop</b>		Available	Available	Available	Available	Available	Available	Available	Available

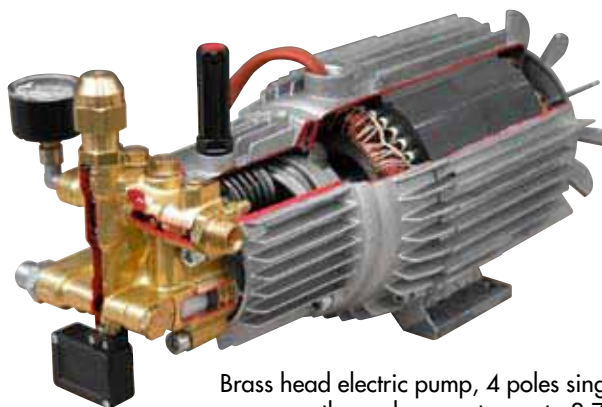


**NV2M 15-130**



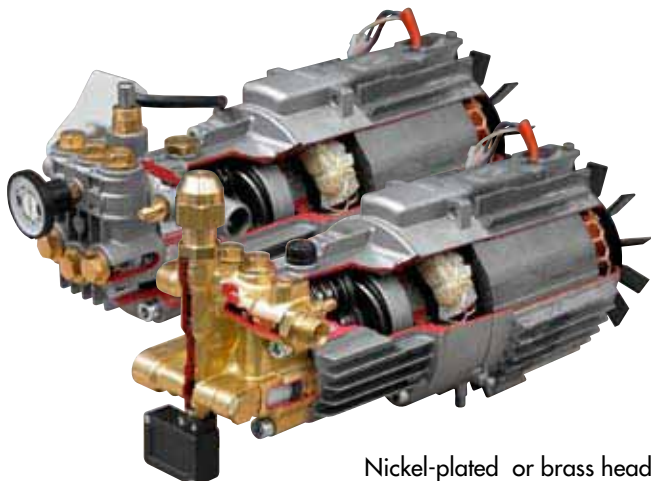
Nickel-plated head electric pump with adjustable high flow rate, 2 poles single-phase motor (2,6 kW). The most innovative entry level model in the world: it combines the two washing phases (dirt degreasing = high-pressure / fast rinsing = high flow rate) till 15 l/min like three-phase machines.

**BX4 11-150**



Brass head electric pump, 4 poles single or three-phase motor up to 3,7 kW. 1450 RPM rotation (50Hz) grants low friction and high silence level, even though the structural easiness. It can bear nonstop heavy duty use in the single-phase level.

**NX2M 9-130/BX2M 9-130**



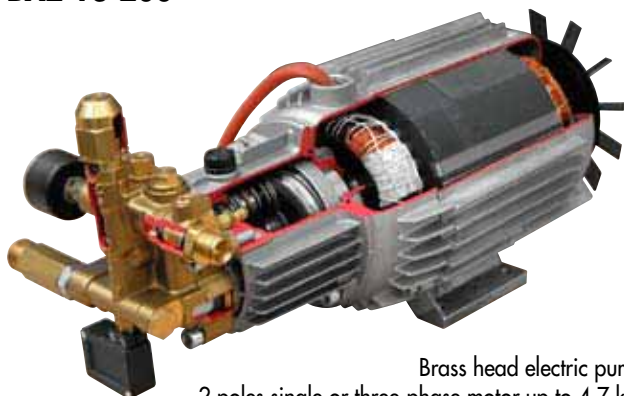
Nickel-plated or brass head electric pump, 2 poles single-phase motor (2,6 kW). Compact professional pump, that uses top quality components.

**BL4 12-160**



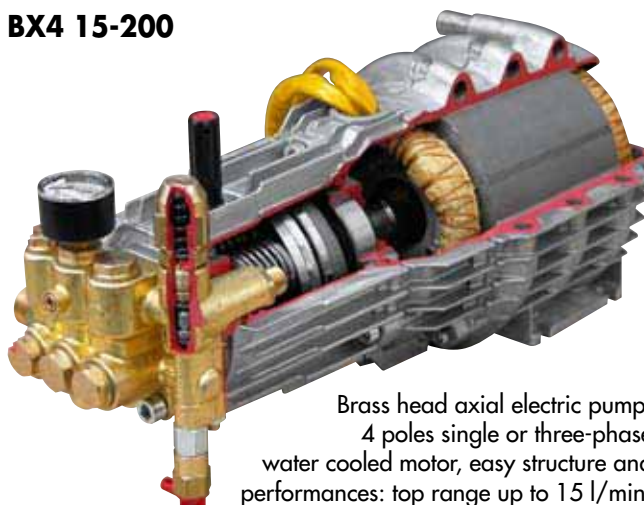
Linear brass pump head, 4 poles single or three-phase motor up to 4 kW. Connecting rod pump, good relation performances / competitiveness in the 12 liters 4 poles motor range.

**BX2 13-200**



Brass head electric pump, 2 poles single or three-phase motor up to 4,7 kW. It is the most resistant 2 poles pump on the market (reinforced with rubberized fabric seals, valves with S/S plate, ceramic coated pistons), it surpasses competitors' 4 poles pumps.

**BX4 15-200**



Brass head axial electric pump, 4 poles single or three-phase water cooled motor, easy structure and performances: top range up to 15 l/min. Connection with water cooled motor lowers operating temperature. It can bear nonstop heavy and extreme duty use.

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

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

In the high-pressure cleaners market companies are divided in those who buy components to assemble products and manufacturers, who have a continuous R&D on all product components.

Lavorwash manufactures all the high-pressure cleaners components entirely and this allows: to spread product knowledge, culture and experience inside the company; to check the entire manufacturing cycle; to adopt possible improvements immediately; better sensitivity to market request adjusting product range design in real time.

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

The right criteria to define the high-pressure cleaner performances is the washing effectiveness.

The elements that influence this value are: delivery rate (water volume processed by the pump in a unity of time) and pressure (l/h water power on a surface). The higher the delivery rate, the faster the washing phase (less rinsing time); the higher the pressure, the deeper the washing (better dirt degreasing).

It is often emphasized the pressure only (also because the pump size and the consequent manufacturing cost are cheaper), but delivery rate is as important as pressure.

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

It does not exist a winning technology, because both solution can provide same performances and lifetime. What determines the pump quality is the quality of the project itself (linear or axial) and of the components used; for this reason Lavorwash decided to develop both technologies, taking into consideration a design that grants margin of safety and reliability.



### **What design? Is it better horizontal or vertical construction?**

The design of a cold water high-pressure cleaner can have an horizontal development (ex. ONTARIO) or a vertical one (ex. MICHIGAN) and also the pump position follows the orientation of the structure.

The vertical development is much more ergonomic for the user, because machine moving and storing after use are much easier, but these benefits raise manufacturing cost.

The horizontal development allows an easier pump service if needed, better stability and a lower manufacturing cost.

# Cold water high-pressure cleaner

# LAVOR PRO

## WOBBLE PLATE



### • Axial pump:

The movement of the (3) pistons occur through the rotation of an inclined wobble plate (advancement) and springs (return). The longitudinal axes of the pistons (placed at 120° each other) is coaxial to the motor rotation axle. Simple manufacture, there are few moving elements.

## 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 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.



### • 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.



### • 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.



### • High-pressur detergent suction:

Chemical product (flowing through the pump) are supplied at the same operating pressure of the machine. It is possible to spread detergent on areas far from the user.



### • Low pressur detergent suction:

Chemical product (that is not flowing through the pump, but is vacuumed with a VENTURI effect) are supplied lowering the operating pressure of the machine. It is possible to supply detergent with a wide conic jet on areas near to the user.



### • Detergent tank:

The machine has an integrated detergent tank. It is not necessary to have other external tanks that reduce movements.



### • Double detergent tank:

The machine has two integrated detergent tanks, to supply two different chemical products with a double selector. It is not necessary to empty the tank if another chemical product is needed. It is not necessary to have other external tanks that reduce movements.



### • 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.



### • Gearbox rpm reducer:

Endothermic motor has a high rotation speed (from 3000 to 3400 RPM), so the RPM reducer is applied to lower the rotation of the connected pump. Low rotation speed of the components grant longer pump life.



### • Pressure gauge:

It allows the visual control of the machine operating pressure.



### • Adjustable pressure:

It is possible to lower the pressure for gentle uses and for water saving.



# LAVOR PRO Cold water high-pressure cleaner



Reno Volga LMX Danubio Ontario Colorado Michigan Columbia

Code	Model	pag	operating pressure (max pressure)	operating pressure (max pressure)	delivery rate	delivery rate	absorbed power	rpm	voltage	max water temperature	weight with packaging	packaging	pieces for pallet
			bar (max bar)	psi (max psi)	l/h	GPM usa	W						
8.658.0003	RENO 1315 PTV	10	130 (max145)	1885(max2102)	480÷900	2.1÷3.96	2600	2800	230-50	40	24.5/53.9	39x39 h 71	18(120x80)
8.021.0704	VOLGA 1310 XP	11	130 (max160)	1885(max2320)	200÷540	0.9÷2.38	2600	2800	230-50	40	24/52.8	80x34 h 37	15(120x80)
8.613.0001	LMX 1211 XP	12	50÷120(max150)	725÷1740(max2175)	345÷660	1.52÷2.91	3300	2800	230-50	40	32/70.4	60x37,5 h 74	12(120x80)
8.613.0023	LMX 1509 XP	12	30÷150(max170)	435÷1740(max2465)	345÷540	1.52÷2.38	3300	2800	230-50	40	32/70.4	60x37,5 h 74	12(120x80)
8.613.0015	LMX 2007 XP	12	50÷200(max220)	725÷2900(3190)	345÷420	1.52÷1.85	3300	2800	230-50	40	32/70.4	60x37,5 h 74	12(120x80)
8.613.0028	LMX 1713 XP	12	50÷170	435÷1740	345÷780	1.52÷3.43	4700	2800	400-50	40	32/70.4	60x37,5 h 74	12(120x80)
86.590.001	DANUBIO 1211 LP	13	30÷120(max150)	435÷1740(max2175)	345÷660	1.52÷2.91	3000	1450	230-50	40	36/79.2	75x40 h 62	9(120x80)
8.659.0009	DANUBIO 1510 LP	13	30÷150(max160)	435÷2175(max2320)	345÷540	1.52÷2.38	3000	1450	230-50	40	36/79.2	75x40 h 62	9(120x80)
86.590.003	DANUBIO 1612 LP	13	30÷160	435÷2320	345÷720	1.52÷3.17	4000	1450	400-50	40	36/79.2	75x40 h 62	9(120x80)
8.655.0002	ONTARIO 1515 XP RA	14	30÷150	435÷2175	450÷900	1.98÷3.96	5000	1450	400-50	40	46/101.2	75x40 h 62	9(120x80)
8.655.0003	ONTARIO 2015 XP RA	14	30÷200	435÷2900	450÷900	1.98÷3.96	7000	1450	400-50	40	47/103.4	75x40 h 62	9(120x80)
8.656.0002	COLORADO 1211 XP	15	30÷120(max150)	435÷1740(max2175)	320÷660	1.41÷2.91	3000	1450	230-50	40	45/99	50x60 h 107	1
8.656.0001	COLORADO 1511 XP	15	30÷150	435÷2175	320÷660	1.41÷2.91	3700	1450	400-50	40	46/101.2	50x60 h 107	1
8.657.0001	MICHIGAN 1211 XP RA	16	30÷125(max150)	435÷1812(max2175)	320÷660	1.41÷2.91	3000	1450	230-50	40	51/112.2	50x60 h 107	1
8.657.0002	MICHIGAN 1515 XP RA	16	30÷150	435÷2175	450÷900	1.98÷3.96	5000	1450	400-50	40	53/116.6	50x60 h 107	1
8.657.0003	MICHIGAN 2015 XP RA	16	30÷200	435÷2900	450÷900	1.98÷3.96	7000	1450	400-50	40	55/121	50x60 h 107	1
8.654.0001	COLUMBIA 1211 LP RA	17	30÷125(max150)	435÷1812(max2175)	345÷660	1.52÷2.91	3000	1450	230-50	40	47/103.4	55x62 h 58	12(120x100)
8.654.0002	COLUMBIA 1515 LP RA	17	30÷150	435÷2175	345÷900	1.52÷3.96	5000	1450	400-50	40	47/103.4	55x62 h 58	12(120x100)







Victoria

Magnum

MCHP

Thermic 5H

Thermic 10 D

Thermic 11H

Thermic 13H

Code	Model	operating pressure (max pressure)		delivery rate		absorbed power	rpm	voltage	max water temperature	weight with packaging	packaging	pieces for pallet	
		pag	bar (max bar)	psi (max psi)	l/h								GPM usa
8.654.0003	COLUMBIA 2015 LP RA	17	30÷200	435÷2900	450÷900	1.98÷3.96	7000	1450	400-50	40	50/110	55x62 h 58	12 (120x100)
8.654.0015	COLUMBIA 2021 LP RA	17	30÷200	435÷2900	630÷1260	2.77÷5.55	9400	1450	400-50	40	55/121	55x62 h 58	12 (120x100)
8.616.0709	VICTORIA 1515 LP RA	18	30÷150	435÷2175	450÷900	1.98÷3.96	5000	1450	400-50	40	82/180.4	85x64,5 h 100	1
8.616.0710	VICTORIA 2015 LP RA	18	30÷200	435÷2900	450÷900	1.98÷3.96	7000	1450	400-50	40	84/184.8	85x64,5 h 100	1
8.616.0714	VICTORIA 2021 LP RA	18	30÷200	435÷2900	630÷1260	2.77÷5.55	9400	1450	400-50	40	86/189.2	85x64,5 h 100	1
8.651.0009	MAGNUM 3317 LP	19	330	4785	1020	4,49	13000	1450	400-50	40	150/330	128x75 h 123	1
8.626.0001	MCHPV 1211 LP	-	30÷120 (max150)	435÷1740 (max2175)	345÷660	1.52÷2.91	3000	1450	230-50	40	40/88	75x50 h 35	9 (120x80)
8.626.0002	MCHPV 1515 LP RA	-	30÷150	435÷2175	345÷900	1.52÷3.96	5000	1450	400-50	40	45/99	75x50 h 35	9 (120x80)
8.626.0003	MCHPV 2015 LP RA	-	30÷200	435÷2900	450÷900	1.98÷3.96	7000	1450	400-50	40	50/110	75x50 h 35	9 (120x80)
8.626.0004	MCHPV 2021 LP RA	-	30÷200	435÷2900	630÷1260	2.77÷5.55	9400	1450	400-50	40	55/121	75x50 h 35	9 (120x80)
8.626.0005	MCHPX 1211 LP	-	30÷120 (max150)	435÷1740 (max2175)	345÷660	1.52÷2.91	3000	1450	230-50	40	40/88	75x50 h 35	9 (120x80)
8.626.0006	MCHPX 1515 LP RA	-	30÷150	435÷2175	345÷900	1.52÷3.96	5000	1450	400-50	40	45/99	75x50 h 35	9 (120x80)
8.626.0007	MCHPX 2015 LP RA	-	30÷200	435÷2900	450÷900	1.98÷3.96	7000	1450	400-50	40	50/110	75x50 h 35	9 (120x80)
8.626.0008	MCHPX 2021 LP RA	-	30÷200	435÷2900	630÷1260	2.77÷5.55	9400	1450	400-50	40	55/121	75x50 h 35	9 (120x80)
8.601.0107	THERMIC 5H	20	30÷160	435÷2320	285÷570	1.25÷2.51	5hp	3000	-	40	30/66	59x49 h 59	8 (120x113)
8.601.0111	THERMIC 10 D	21	30÷180	435÷2465	510÷1020	2.25÷4.49	10hp	1600	-	40	95/209	103x73 h 100	8 (120x113)
8.601.0009	THERMIC 11H	22	30÷200	435÷2900	540÷1080	2.38÷4.76	11hp	1700	-	40	64/140.8	104x66 h 90	8 (120x113)
8.601.0063	THERMIC 13H	23	30÷250	435÷3625	510÷1020	2.25÷4.49	13hp	1700	-	40	72/158.4	103x73 h 100	8 (120x113)



# LAVOR PRO PRO Cold water high-pressure cleaner



## RENO

High pressure cleaner with adjustable flow rate



WOBBLE PLATE

PUMP

DETERGENT

DETERGENT

1 TANK

PRESSURE GAUGE

BAR

**TS** Total Stop

500 mm      400 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with 3 nozzles..
- Power cable 5 m
- High pressure hose 8 m

**480 l/h high PRESSURE**

**900 l/h high FLOW RATE**

- Double washing system  
high pressure for tough dirt  
high flow rate for cleaning dirt off large surface areas (till 15 l/min)

- Lance with 3 nozzles:  
1 vacuum detergent  
2 high flow rate  
3 high pressure

- Detergent tank.

**Optional:**

- Available other accessories (see Accessoires pages).

Reno 1315	
Code	8.658.0003
operat. pressure/max	130 bar /max145 bar
operat. pressure/max	1885 psi /max 2102 psi
delivery rate	480÷900 l/h
delivery rate	2.1÷3.96 GPM
abs. power/voltage	2600W - 230V~50Hz
RPM	2800 RPM
detergent tank	1,8 l. /0.47 gal
inlet max temperature	40 °C
machine dimensions	33x36x92 cm
machine weight	23 Kg /50.6 lbs



## VOLGA XP

Ergonomic handle

Hose-reel

Accessory holder



NX2M 9-130



**T.S.** Total Stop



### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 8 m

### Optional:

- Available other accessories (see Accessoires pages).



- Detergent tank.



- Accessory holder.

### Volga 1310 XP

Code	8.021.0704
operat. pressure/max	130 bar / max 160 bar
operat. pressure/max	1885 psi / max 2102 psi
delivery rate	540 l/h
delivery rate	2.1 / 3.96 GPM
abs. power/voltage	2600W - 230V~50Hz
RPM	2800 RPM
detergent tank	2 l. / 0.52 gal
inlet max temperature	40 °C
machine dimensions	30x74x30 cm
machine weight	22 Kg / 48.4 lbs



# LAVOR PRO COLD WATER HIGH-PRESSURE CLEANER

## LMX XP

Ergonomic handle

Accessory holder  
Power cable holder

High-pressure hose-reel

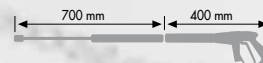


BX2 13-200



**TS** Total Stop (single phase)

**TS** Total Stop 24V (three phase)



### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Detergent tank.



### Optional:

- Available other accessories (see Accessoires pages).

	LMX 1211 XP	LMX 1509 XP	LMX 2007 XP	LMX 1713 XP
Code	8.613.0001	8.613.0023	8.613.0015	8.613.0028
operat. pressure/max	50÷120 bar (max150 bar)	50÷150 bar (max170 bar)	50÷200 bar (max220 bar)	50÷170 bar
operat. pressure/max	725÷1740psi (max 2175)	435÷1740 psi (max 2465)	725÷2900 psi (max 3190)	435÷1740 psi
delivery rate	345÷660 l/h	345÷540 l/h	345÷420 l/h	345÷780 l/h
delivery rate	1.52÷2.91 GPM	1.52÷2.38 GPM	1.52÷1.85 GPM	1.52÷3.43 GPM
abs. power/voltage	3300W - 230V~50Hz	3300W - 230V~50Hz	3300W - 230V~50Hz	4700W - 400V~50Hz
RPM	2800 RPM	2800 RPM	2800 RPM	2800 RPM
detergent tank	4 l. /1.05 lbs	4 l. /1.05 lbs	4 l. /1.05 lbs	4 l. /1.05 lbs
inlet max temperature	40 °C	40 °C	40 °C	40 °C
machine dimensions	59x37x87 cm	59x37x87 cm	59x37x87 cm	59x37x87 cm
machine weight	28 Kg / 61.6lbs	28 Kg / 61.6lbs	28 Kg / 61.6lbs	28 Kg / 61.6lbs



### DANUBIO LP

Ergonomic handle

Power cable holder

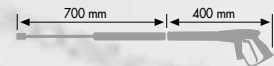


BL4 12-160



**T.S.** Total Stop (single phase)

**T.S.** Total Stop 230V (three phase)



#### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 8 m



- Three ceramic pistons, brass linear. pump head with built-in by-pass valve.



#### Optional:

- High-pressure hose-reel cod. 6.608.0021



#### DANUBIO 1211 LP

#### DANUBIO 1510 LP

#### DANUBIO 1612 LP

Code	8.659.0001	8.659.0009	8.659.0003
operat. pressure/max	30÷120 bar (max 150 bar)	30÷150 bar (max 160 bar)	30÷160 bar
operat. pressure/max	435÷1740 psi (max 2175)	435÷2175 psi (max 2320)	435÷2320 psi
delivery rate	345÷660 l/h	345÷540 l/h	345÷720 l/h
delivery rate	1.52÷2.91 GPM	1.52÷2.38 GPM	1.52÷3.17 GPM
abs. power/voltage	3000W - 230V~50Hz	3000W - 230V~50Hz	4000W - 400V~50Hz
RPM	1450 RPM	1450 RPM	1450 RPM
detergent tank	3,8 l. / 1 gal	3,8 l. / 1 gal	3,8 l. / 1 gal
inlet max temperature	40 °C	40 °C	40 °C
machine dimensions	76x41x75 cm	76x41x75 cm	76x41x75 cm
machine weight	33 Kg / 72.6 lbs	33 Kg / 72.6 lbs	34 Kg / 74.8 lbs

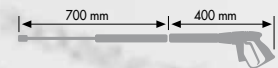
# LAVOR PRO COLD WATER HIGH-PRESSURE CLEANER

## ONTARIO XP

Ergonomic handle

Optional: hose-reel

Power cable holder



### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Pressure regulator.
- Glycerine pressure gauge.



### Optional:

- High-pressure hose-reel cod. 6.608.0008



### ONTARIO 1515 XP RA

### ONTARIO 2015 XP RA

Code	8.655.0002	8.655.0003
operat. pressure/max	30÷150 bar	30÷200 bar
operat. pressure/max	435÷2175 psi	435÷2900 psi
delivery rate	450÷900 l/h	450÷900 l/h
delivery rate	1.98÷3.96 GPM	1.98÷3.96 GPM
abs. power/voltage	5000W - 400V~50Hz	7000W - 400V~50Hz
RPM	1450 RPM	1450 RPM
detergent tank	3,8 l. / 1 gal	3,8 l. / 1 gal
inlet max temperature	40 °C	40 °C
machine dimensions	76x41x75 cm	76x41x75 cm
machine weight	44 Kg / 96.8 lbs	45 Kg / 99 lbs

### COLORADO XP

Ergonomic handle

Optional: hose-reel



Power cable holder



**WIBBLE PLATE PUMP**

**PRESSURE REGULATOR**

**DETERGENT**

**DETERGENT 2 TANKS**

**PRESSURE GAUGE**

**1450 RPM**

**T.S. Total Stop** (single phase)

**T.S. Total Stop 2-4V** (three phase)

700 mm

400 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m

• Pump

• Adjustable wax/detergent suction with double built-in tank (2 x 4,7 liters).



**Optional:**

- High-pressure hose-reel cod. 6.608.0011

	COLORADO 1211 XP	COLORADO 1511 XP
Code	8.656.0002	8.656.0001
operat. pressure/max	30÷120 bar (max150 bar)	30÷150 bar
operat. pressure/max	435÷1740 psi (max2175)	435÷2175 psi
delivery rate	320÷660 l/h	320÷660 l/h
delivery rate	1.41÷2.91 GPM	1.41÷2.91 GPM
abs. power/voltage	3000W - 230V~50Hz	3700W - 400V~50Hz
RPM	1450 RPM	1450 RPM
detergent tank	4,7 l. (x2) / 1.24 gal (x2)	4,7 l. (x2) / 1.24 gal (x2)
inlet max temperature	40 °C	40 °C
machine dimensions	58x50x96 cm	58x50x96 cm
machine weight	38 Kg /83.6 lbs	39 Kg /85.8 lbs



# LAVOR PRO COLD WATER HIGH-PRESSURE CLEANER

## Cold water high-pressure cleaner

### MICHIGAN XP

Ergonomic handle

Optional: hose-reel

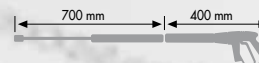


BX4 15-200



**T.S.** Total Stop (single phase)

**T.S.** Total Stop 24V (three phase)



#### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



• Pump



• Adjustable wax/detergent suction with double built-in tank (2 x 4,7 liters).



#### Optional:

- High-pressure hose-reel cod. 6.608.0011



#### MICHIGAN 1211 XP

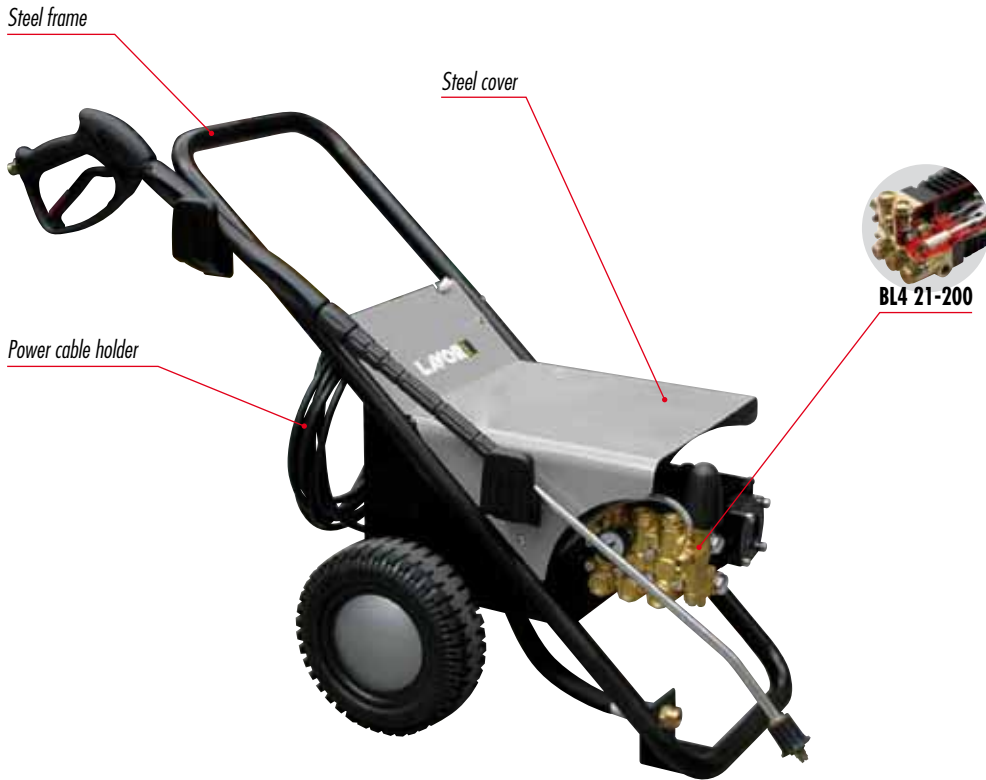
#### MICHIGAN 1515 XP

#### MICHIGAN 2015 XP

Code	8.657.0001	8.657.0002	8.657.0003
operat. pressure/max	30÷125 bar (max150 bar)	30÷150 bar	30÷200 bar
operat. pressure/max	435÷1812 psi (max2175)	435÷2175 psi	435÷2900 psi
delivery rate	320÷660 l/h	450÷900 l/h	450÷900 l/h
delivery rate	1.41÷2.91 GPM	1.98÷3.96 GPM	1.98÷3.96 GPM
abs. power/voltage	3000W - 230V~50Hz	5000W - 400V~50Hz	7000W - 400V~50Hz
RPM	1450 RPM	1450 RPM	1450 RPM
detergent tank	4,7 l. (x2) / 1.24 gal (x2)	4,7 l. (x2) / 1.24 gal (x2)	4,7 l. (x2) / 1.24 gal (x2)
inlet max temperature	40 °C	40 °C	40 °C
machine dimensions	60x55x107 cm	60x55x107 cm	60x55x107 cm
machine weight	44 Kg / 96.8 lbs	46 Kg / 101.2 lbs	48 Kg / 105.6 lbs



COLUMBIA LP



**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



• Overload safety valve.



Optional:

- High-pressure hose-reel cod. 6.608.0017



	COLUMBIA 1211 LP	COLUMBIA 1515 LP	COLUMBIA 2015 LP	COLUMBIA 2021 LP
Code	8.654.0001	8.654.0002	8.654.0003	8.654.0015
operat. pressure/max	30÷125 bar (max150 bar)	30÷150 bar	30÷200 bar	30÷200 bar
operat. pressure/max	435÷1812 psi (max2175)	435÷2175 psi	435÷2900 psi	435÷2900 psi
delivery rate	345÷660 l/h	450÷900 l/h	450÷900 l/h	630÷1260 l/h
delivery rate	1.52÷2.91 GPM	1.52÷3.96 GPM	1.52÷3.96 GPM	2.77÷5.55GPM
abs. power/voltage	3000W - 230V~50Hz	5000W - 400V~50Hz	7000W - 400V~50Hz	9400W - 400V~50Hz
RPM	1450 RPM	1450 RPM	1450 RPM	1450 RPM
detergent tank	-	-	-	-
inlet max temperature	40 °C	40 °C	40 °C	40 °C
machine dimensions	50x90x83 cm	50x90x83 cm	50x90x83 cm	50x90x83 cm
machine weight	44 Kg /96.8 lbs	44 Kg /96.8 lbs	47,5 Kg/104.5 lbs	52,5 Kg/115.5 lbs

# LAVOR PRO COLD WATER HIGH-PRESSURE CLEANER

## VICTORIA LP



CRANKSHAFT PUMP

DETERGENT

WATER COOLING

DETERGENT 2 TANKS

PRESSURE REGULATOR

PRESSURE GAUGE

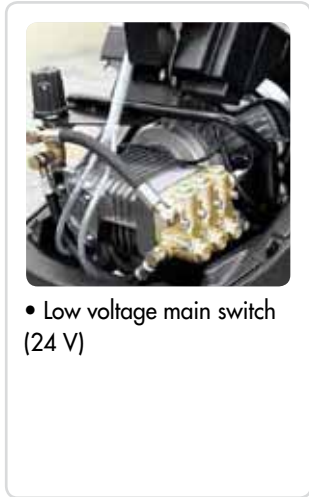
TS Total Stop 24V

1450 RPM

700 mm | 400 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



**Optional:**

- Wall mount hose reel cod. 6.608.0022

	VICTORIA 1515 LP	VICTORIA 2015 LP	VICTORIA 2021 LP
Code	8.616.0709	8.616.0710	8.616.0714
operat. pressure/max	30÷150 bar	30÷200 bar	30÷200 bar
operat. pressure/max	435÷2175 psi	435÷2900 psi	435÷2900 psi
delivery rate	450÷900 l/h	450÷900 l/h	630÷1260 l/h
delivery rate	1.98÷3.96 GPM	1.98÷3.96 GPM	2.77÷5.55 GPM
abs. power/voltage	5000W - 400V~50Hz	7000W - 400V~50Hz	9400W - 400V~50Hz
RPM	1450 RPM	1450 RPM	1450 RPM
detergent tank	14 l. + 2,5 l./3.70+0.66 gal	14 l. + 2,5 l./3.70+0.66 gal	14 l. + 2,5 l./3.70+0.66 gal
inlet max temperature	40 °C	40 °C	40 °C
machine dimensions	80x55x80 cm	80x55x80 cm	80x55x80 cm
machine weight	71 Kg /156.2 lbs	73 Kg /160.2 lbs	75 Kg /165 lbs

## MAGNUM LP



**CRANKSHAFT PUMP**

**PRESSURE REGULATOR**

**DETERGENT**

**DETERGENT 2 TANKS**

**PRESSURE GAUGE**

**TS** Total Stop **24V**

**1450 RPM**

1050 mm      100 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Low voltage main switch (24 V)
- Power lamp.
- Safety valve with water discharge.

- Optional:**
- Available other accessories (see Accessoires pages).

### MAGNUM 3317 LP

Code	8.651.0009
operating pressure	330 bar
operating pressure	4785 psi
delivery rate	1020 l/h
delivery rate	4.49 GPM
abs. power/voltage	13000W - 400V~50Hz
RPM	1450 RPM
detergent tank	-
inlet max temperature	40 °C
machine dimensions	110x66x97 cm
machine weight	138 Kg /303.6 lbs



### THERMIC 5H

Nozzles holder

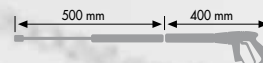
Hose holder

Steel frame



**BX2 13-200**

**Honda**  
unleaded gasoline engine



**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- High pressure hose 8 m



- Unleaded gasoline engine



**Optional:**

- High-pressure hose-reel.



**THERMIC 5H**

Code	8.601.0107
operating pressure	30÷160 bar
operating pressure	435÷2320 psi
delivery rate	285÷570 l/h
delivery rate	510÷2.51 GPM
engine	1.25÷5 hp
engine type	Honda GC 160
RPM	3000
detergent tank	-
inlet max temperature	40 °C
machine dimensions	70x59x97 cm
machine weight	26 kg / 57.2 lbs



Cold water high-pressure cleaner with combustion engine

**LAVOR** PRO

**THERMIC 10 D**

Steel frame

Electrical start with engine functions control

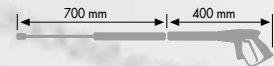
Pneumatic wheels



**Lombardini**  
Diesel engine



**T.V.** Thermal Valve

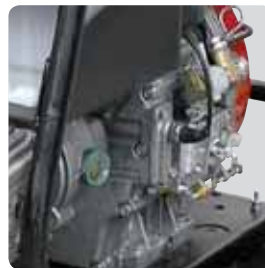


**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- High pressure hose 10 m

**Optional:**

- Available other accessories (see Accessoires pages).



- Diesel engine, single cylinder, air cooled.
- 1500 RPM reducer between engine and pump.

**THERMIC 10 D**

Code	8.601.0111
operating pressure	30÷180 bar
operating pressure	435÷2465 psi
delivery rate	510÷1020 l/h
delivery rate	2.5÷4.49 GPM
engine	10 hp
engine type	Lombardini 15LD400
RPM	1600
detergent tank	-
inlet max temperature	40 °C
machine dimensions	100x66x92 cm
machine weight	82 Kg / 180.4 lbs



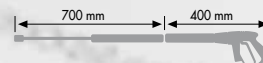
### THERMIC 11H

Steel frame

**Honda**  
unleaded gasoline engine

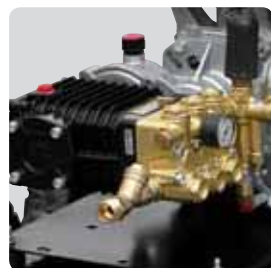


Tough wheels



#### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- High pressure hose 10 m



- Inlet filter.
- 1500 RPM reducer between engine and pump.



#### Optional:

- Available other accessories (see Accessoires pages).

#### THERMIC 11H

Code	8.601.0115
operating pressure	30÷200 bar
operating pressure	435÷2900 psi
delivery rate	540÷1080 l/h
delivery rate	2.38÷4.76 GPM
engine	11 hp
engine type	Honda GX 340
RPM	1700
detergent tank	-
inlet max temperature	40 °C
machine dimensions	100x66x92 cm
machine weight	53 Kg /116.6 lbs

## THERMIC 13H



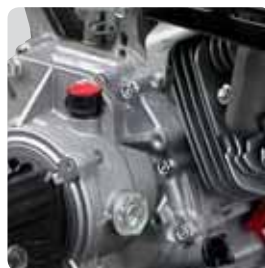
*Steel frame*

**Honda**  
*unleaded gasoline engine*

*Tough wheels*

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- High pressure hose 10 m



- Unleaded gasoline engine.
- Automatic RPM regulation.
- 1500 RPM reducer between engine and pump.

### Optional:

- Available other accessories (see Accessoires pages).

### THERMIC 13H

Code	8.601.0063
operating pressure	30÷250 bar
operating pressure	435÷3625 psi
delivery rate	510÷1020 l/h
delivery rate	2.25÷4.49 GPM
engine	13 hp
engine type	HONDA GX 390
RPM	1700
detergent tank	-
inlet max temperature	40 °C
machine dimensions	100x66x92 cm
machine weight	61 Kg /134.2 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 of 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.

### **The boiler**

It is a gas oil 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 gas oil 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 thermal output very high, near 90% or higher. This means that the relation between usable obtained power (Delta T impressed in water) and power consumption (gas oil) to produce that power is very high.

### **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 (antiscaling, 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.



# Hot water high-pressure cleaner

# LAVOR PRO

## WOBBLE PLATE



### • Axial pump:

The movement of the (3) pistons occur through the rotation of an inclined wobble plate (advancement) and springs (return). The longitudinal axes of the pistons (placed at 120° each other) is coaxial to the motor rotation axle. Simple manufacture, there are few moving elements.

## 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 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.

**T.S.** Total Stop

### • 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.

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

### • 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.

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

### • 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.

**1450** RPM

### • 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.



### • High-pressure detergent suction:

Chemical products (flowing through the pump) are supplied at the same operating pressure of the machine. It is possible to spread detergent on areas far from the user.



### • Low pressure detergent suction:

Chemical products (that is not flowing through the pump, but is vacuumed with a VENTURI effect) are supplied lowering the operating pressure of the machine. It is possible to supply detergent with a wide conic jet on areas near to the user.



### • 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.

## PRESSURE GAUGE



### • Pressure gauge:

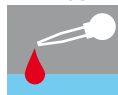
It allows the visual control of the machine operating pressure.



### • Adjustable pressure:

It is possible to lower the pressure for gentle uses and for water saving.

## ANTI SCALE



### • CHEMICAL ANTISCALE DEVICE:

The machine is equipped with an integrated tank to supply the antiscaling product inside the header tank that brings water into the pump. This device (without electronic elements) protects the coil from scale formation; the use of the chemical product inside the circuit is the only efficient solution against scale.



### • DOUBLE PIPE GASOIL PUMP:

It makes the gasoil flowing back to the tank, avoiding the gasoil flowing inside the pump during by-pass phase (single tube pump operation): this allows to obtain low temperatures inside the pump avoiding greasy deposit formation that would block the pump.



### • LOW FUEL LAMP:

LED flashing, connected to a level probe, indicates lack of gasoil inside the tank. It shuts down the burner avoiding dry operation of the gasoil pump.



Vulcano

Mississippi

NPX

LKX

Tekna

Tekna HT

Code	Model	pag	operating pressure (max pressure)		delivery rate	delivery rate	absorbed power	rpm	voltage	outlet temp.	fuel consumption	diesel tank	antiscala tank	heat output	packaging	packaging weight
			bar	psi												
8.699.0015	VULCANO 74	28	-	-	-	-	300	-	230-50	max 140°	5,6 - 1.5	18 - 4.8	-	74	94x65x90	60 - 132
8.625.0001	MISSISSIPPI 1310 XP	29	130 (max150)	1885 (max2175)	600	2,64	3000	2800	230-50	max 90°	2,83 - 0.75	14 - 3.7	-	38	80x55x83	65 - 143
8.625.0002	MISSISSIPPI 1310 XP DP	29	130 (max150)	1885 (max2175)	600	2,64	3000	2800	230-50	max 90°	2,83 - 0.75	14 - 3.7	-	38	80x55x83	65 - 143
8.620.0601	NPX 1211 XP	30	30÷120 (max150)	435÷1740 (max2175)	330÷660	1.45÷2.91	3200	2800	230-50	max 140°	3,78 - 1	18 - 4.8	-	42	94x65x90	113 - 248.6
8.620.0602	NPX 1511 XP	30	30÷150	435÷2175	330÷660	1.45÷2.91	4000	2800	400-50	max 140°	3,78 - 1	18 - 4.8	-	42	94x65x90	114 - 250.8
8.620.0603	NPX 1813 XP	30	30÷180	435÷2610	400÷780	1.76÷3.43	6300	2800	400-50	max 140°	3,78 - 1	18 - 4.8	-	42	94x65x90	115 - 253
8.621.0901	LKX 1310 XP	31	30÷110 (max150)	435÷1595 (max2175)	330÷660	1.45÷2.91	3000	1450	230-50	max 140°	3,78 - 1	18 - 4.8	-	42	94x65x90	120 - 264
8.621.0902	LKX 1515 XP RA	32	30÷150	435÷2175	450÷900	1.98÷3.96	5500	1450	400-50	max 140°	5,6 - 1.5	18 - 4.8	-	74	94x65x90	130 - 286
8.621.0903	LKX 2015 XP RA	32	30÷200	435÷2900	450÷900	1.98÷3.96	7300	1450	400-50	max 140°	5,6 - 1.5	18 - 4.8	-	74	94x65x90	132 - 290.4
8.622.0901	TEKNA 1515 LP RA	33	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	125x69x87	160 - 352
8.622.0902	TEKNA 2015 LP RA	33	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	125x69x87	165 - 363





Hyper L

Hyper T



Thermic 5 HW



Thermic 10 HW



Thermic 17 HW

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	antiscala tank	heat output	packaging	packaging weight
			bar	psi	l/h	GPM usa	W									
8.622.0903	TEKNA HT 1521 LP RA	34	30÷150	435÷2175	630÷1260	2,77÷5,55	7300	1450	400-50	max 140°	6,6 - 1,75	22 - 5.8	2,4 - 0.6	88	130x78x108	175 - 385
8.623.0901	TEKNA HT 2021 LP RA	34	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	130x78x108	180 - 396
8.621.0906	HYPER L 1211 LP	36	30÷110 (max150)	435÷1595 (max2175)	345÷660	1,52÷2,91	3000	1450	230-50	max 140°	3,78 - 1	18 - 4.8	-	42	94x65x90	124 - 272.8
8.621.0907	HYPER L 1515 LP RA	37	30÷150	435÷2175	345÷900	1,52÷3,96	5500	1450	400-50	max 140°	3,78 - 1	18 - 4.8	-	42	94x65x90	135 - 297
8.621.0908	HYPER L 2015 LP RA	37	30÷200	435÷2900	450÷900	1,98÷3,96	7300	1450	400-50	max 140°	3,78 - 1	18 - 4.8	-	42	94x65x90	136 - 299.2
8.623.0904	HYPER T 1515 LP	38	30÷150	435÷2175	345÷900	1,52÷3,96	5500	1450	400-50	max 140°	6,6 - 1,75	22 - 5.8	2,4 - 0.6	88	130x78x108	161 - 354.2
8.623.0905	HYPER T 2015 LP	38	30÷200	435÷2900	450÷900	1,98÷3,96	7300	1450	400-50	max 140°	6,6 - 1,75	22 - 5.8	2,4 - 0.6	88	130x78x108	166 - 365.2
8.623.0902	HYPER T 2021 LP	38	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	130x78x108	181 - 398.2
8.601.0113	THERMIC 5 HW	39	30÷100 (max130)	435÷1450 (max1885)	300÷600	1,32÷ 2,64	5hp	3000	-	max 90°	2.83 - 0,75	6 - 1.6	-	38	60x70x77	109 - 239.8
8.601.0099	THERMIC 10 HW	40	30÷170	435÷2465	1020	4,49	10hp	1700	-	max 140°	4.72 - 1.25	30 - 7.9	-	58	68x99x74	160 - 352
8.601.0052	THERMIC 17 HW	41	30÷200	435÷2900	1320	5,82	17hp	1700	-	max 140°	5.6 - 1.5	40 - 10.5	-	74	113x76x85	240 - 528





## VULCANO 74

Control panel

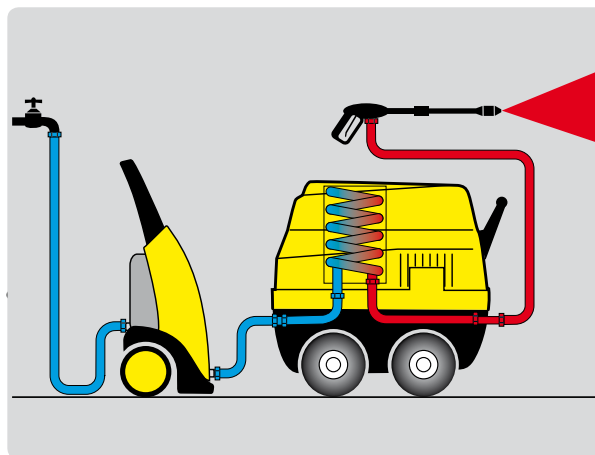
Outlet quick coupling  
3/8 MInlet quick coupling  
3/8 M

Heavy frame

Big wheels



- Vertical burner with high thermal efficiency steel coil.
- You can get hot water still if not in pressure due to flow switch presence.

**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	200 bar
operat. pressure allowed	2900 psi
delivery rate allowed	1260 l/h
delivery rate allowed	5.55 GPM
abs. power/voltage	300W - 230V~50Hz
diesel tank	18 l./4.8 gal
max temp. inlet/outlet	40 °C / 140°C
fuel consumption	5,6 l/h - 1.5 gal/h
heat output	74 kW
machine dimensions	94x65x90 cm
machine weight	44 Kg / 88 lbs

## MISSISSIPPI



Wobble Plate Pump

Detergent Tank

Pressure Regulator

Pressure Gauge

Detergent MISSISSIPPI 1310 XP DP

Detergent MISSISSIPPI 1310 XP

**T.S.** Total Stop

700 mm | 400 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 8 m

- Vertical burner with high thermal efficiency steel coil.
- Diesel pump with by-pass valve.



**Optional:**

- Available other accessories (see Accessoires pages).

	MISSISSIPPI 1310 XP	MISSISSIPPI 1310 XP DP
Code	8.625.0001	8.625.0002
operat. pressure/max	130 bar (max150 bar)	130 bar (max150 bar)
operat. pressure/max	1885 psi (max2175)	1885 psi (max2175)
delivery rate	600 l/h	600 l/h
delivery rate	2.64 GPM	2.64 GPM
abs. power/voltage	3000W - 230V~50Hz	3000W - 230V~50Hz
RPM	2800 RPM	2800 RPM
diesel tank/detergent tank	14/2,5 l.- 3.7/0.66gal	14/2,5 l.- 3.7/0.66gal
max temp. inlet/outlet	40 °C / 90 °C	40 °C / 90 °C
fuel consumption/heat output	2,83 l/h - 0.75 gal/h / 38 kW	2,83 l/h - 0.75 gal/h / 38 kW
machine dimensions	80x55x83 cm	80x55x83 cm
machine weight	54 Kg / 121 lbs	54 Kg / 121 lbs

# LAVOR PRO Hot water high-pressure cleaner

## NPX XP



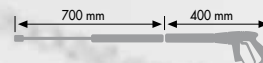
Panel with analogic controls



BX2 13-200

Accessories holder  
Power cable holder

Heavy frame



### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge.
- Safety valve.
- Low fuel lamp.



- Heavy duty steel frame.

### Optional:

- Hose-reel with brake (hose not included) cod.3.697.0044



	NPX 1211 XP	NPX 1511 XP	NPX 1813 XP
Code	8.620.0601	8.620.0602	8.620.0603
operat. pressure/max	30÷120 bar (max150 bar)	30÷150 bar	30÷180 bar
operat. pressure/max	435÷1450 psi (max 1740)	435÷2175 psi	435÷2610 psi
delivery rate	330÷660 l/h	330÷660 l/h	400÷780 l/h
delivery rate	1.71÷3.43 GPM	1.71÷3.43 GPM	1.76÷3.43 GPM
abs. power/voltage	3200W - 230V~50Hz	4000W - 400V~50Hz	6300W - 400V~50Hz
RPM	2800 RPM	2800 RPM	2800 RPM
diesel tank/detergent tank	18/3,0 l. - 4.76/0.79 gal	18/3,0 l. - 4.76/0.79 gal	18/3,0 l. - 4.76/0.79 gal
max temp. inlet/outlet	40 °C / 140 °C	40 °C / 140 °C	40 °C / 140 °C
fuel consumption/heat output	3,78 l/h - 1 gal/h / 42 kW	3,78 l/h - 1 gal/h / 42 kW	3,78 l/h - 1 gal/h / 42 kW
machine dimensions	94x65x90 cm	94x65x90 cm	94x65x90 cm
machine weight	97 kg /213.4 lbs	98 kg /215.6 lbs	99 Kg /217.8 lbs



## LKX XP (single phase)

Panel with analogic controls

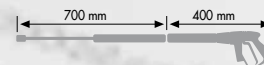
Ergonomic handle



BX4 11-150

Lance/gun holder

Heavy frame



### Standard equipment:

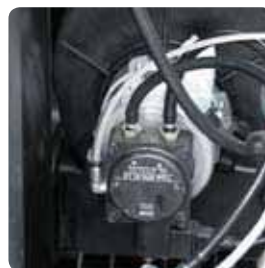
- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m

### Optional:

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



- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge.
- Safety valve.
- Low fuel lamp.



- Auxiliary motor for burner.

### LKX 1310 XP

Code	8.621.0901
operat. pressure/max	30÷110 bar (max150 bar)
operat. pressure/max	435÷1595 psi (max2175)
delivery rate	330÷660 l/h
delivery rate	1.45÷2.91 GPM
abs. power/voltage	3000W - 230V~50Hz
RPM	1450 RPM
diesel tank/detergent tank	18/3,0 l.-4.8/0.79 gal
max temp. inlet/outlet	40 °C / 140 °C
fuel consumption/heat output	3,78 l/h - 1 gal/h / 42 kW
machine dimensions	94x65x90 cm
machine weight	104 Kg /228.8 lbs

# LAVOR PRO Hot water high-pressure cleaner

## LKX XP (three phase)

Accessory holder  
Power cable holder

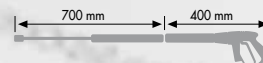
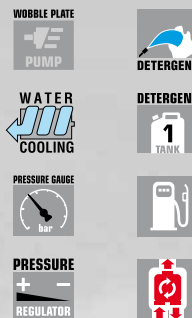


BX4 15-200

Ergonomic handle

Panel with analogic controls

Heavy frame

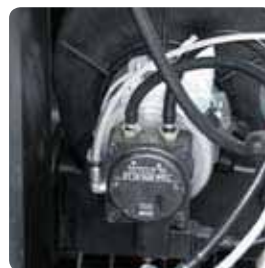


### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge.
- Safety valve.
- Low fuel lamp.



- Auxiliary motor for burner.

### Optional:

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



	LKX 1515 XP	LKX 2015 XP
Code	8.621.0902	8.621.0903
operat. pressure/max	30÷150 bar	30÷200 bar
operat. pressure/max	435÷2175 psi	435÷2900 psi
delivery rate	450÷900 l/h	450÷900 l/h
delivery rate	1.98÷3.96 GPM	1.98÷3.96 GPM
abs. power/voltage	5500W - 400V~50Hz	7300W - 400V~50Hz
RPM	1450 RPM	1450 RPM
diesel tank/detergent tank	18/3,0 l.-4.8/0.79 gal	18/3,0 l.-4.8/0.79 gal
max temp. inlet/outlet	40 °C / 140 °C	40 °C / 140 °C
fuel consumption/heat output	5,6 l/h- 1.5 gal/h / 74 kW	5,6 l/h- 1.5 gal/h / 74 kW
machine dimensions	94x65x90 cm	94x65x90 cm
machine weight	114 Kg / 250.8 lbs	116 Kg / 255.2 lbs

## Tekna LP



**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Low voltage main switch (24 V)



- Vertical burner with high thermal efficiency steel coil.
- Auxiliary motor for burner.



- Header tank and antiscaling device.

### Optional:

- Hose-reel with brake (hose not included) cod. 6.608.0010
- Antiscaling LC-PRECAL (pcs. 4 x 5 lt.) cod. 3.697.0044



### TEKNA 1515 LP

### TEKNA 2015 LP

Code	8.622.0901	8.622.0902
operat. pressure/max	30÷150 bar	30÷200 bar
operat. pressure/max	435÷2175 psi	435÷2900 psi
delivery rate	450÷900 l/h	450÷900 l/h
delivery rate	1.98÷3.96 GPM	1.98÷3.96 GPM
abs. power/voltage	5500W - 400V~50Hz	7300W - 400V~50Hz
RPM	1450 RPM	1450 RPM
diesel tank/detergent tank/antiscaling	22/22/2,4 l.-5.82/5.82/0.63 gal	22/22/2,4 l.-5.82/5.82/0.63 gal
max temp. inlet/outlet	40 °C / 140 °C	40 °C / 140 °C
fuel consumption/heat output	4.72 l/h- 1.25 gal/h / 58 kW	4.72 l/h- 1.25 gal/h / 58 kW
machine dimensions	125x69x87 cm	125x69x87 cm
machine weight	138 Kg / 303.69 lbs	143 kg / 314.6 lbs



# LAVOR PRO PRO Hot water high-pressure cleaner

## Tekna HT



**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m

- Tilting cover.

- Vertical burner with high thermal efficiency (>90%) designed for high flow rates.
- Auxiliary motor for burner.

- Header tank and antiscalant device.

**Optional:**

- Hose-reel with brake (hose not included) cod. 6.608.0010
- Antiscalant LC-PRECAL (pcs. 4 x 5 lt.) cod. 3.697.0044

	TEKNA HT 1521 LP	TEKNA HT 2021 LP
Code	8.623.0903	8.623.0901
operat. pressure/max	30÷150 bar	30÷200 bar
operat. pressure/max	435÷2175 psi	435÷2900 psi
delivery rate	630÷1260 l/h	630÷1260 l/h
delivery rate	2.77÷5.55 GPM	2.77÷5.55 GPM
abs. power/voltage	7300W - 400V~50Hz	9700W - 400V~50Hz
RPM	1450 RPM	1450 RPM
diesel tank/detergent tank/antiscalant	22/22/2,4 l.-5.82/5.82/0.63 gal	22/22/2,4 l.-5.82/5.82/0.63 gal
max temp. inlet/outlet	40 °C / 140 °C	40 °C / 140 °C
fuel consumption/heat output	6.6 l/h - 1.75 gal/h / 88 kW	6.6 l/h - 1.75 gal/h / 88 kW
machine dimensions	125x69x89 cm	125x69x89 cm
machine weight	153 Kg / 336.6 lbs	158 Kg / 347.6 lbs

# Hyper

*GUARANTEED*

**Have more time for yourself**



Lavorwash presents the Hyper range  
This is a complete series developed specifically for  
specialists.  
Maximum reliability, thanks to the best available  
technology and components used.  
No worries working continuously at top  
performances.

# LAVOR PRO PRO

## Hot water high-pressure cleaner

# Hyper L

GUARANTEED

## Hyper L (single phase)

Easy access to main  
mechanical components



BL4 12-160

Lance/gun holder

Impact and weather  
resistant, single piece  
polypropylene cover



**TS**  
Total Stop **24V**

**1450**  
RPM



### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Vertical burner with high thermal efficiency steel coil.
- Safety valve.



- Auxiliary motor for burner air cooling and mechanical two ways fuel pump.



- Temperature regulation gauge with high sensitive stainless steel sensor.
- Low fuel lamp and cut-off.

### Optional:

- Hose-reel with brake (hose not included) cod.3.697.0044



#### HYPER L 1211 LP

Code	8.621.0906
operat. pressure/max	30÷110 bar (max150)
operat. pressure/max	435÷1595 psi (max 2175)
delivery rate	330÷660 l/h
delivery rate	1.52÷2.91 GPM
abs. power/voltage	3000W-230V-50Hz
RPM	1450
diesel tank/detergent tank	18/3,0 l.-4.8/0.79 gal
max temp. inlet/outlet	40 °C / 140 °C
fuel consumption/heat output	3,78 l/h -1 gal/h / 42 kW
machine dimensions	94x65x90 cm
machine weight	125 kg / 275 lbs



# Hyper L

GUARANTEED

## Hyper L (three phase)

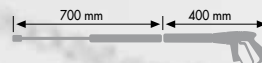
Panel with analogic controls

Easy access to main mechanical components

Heavy frame



BL4 21-200



### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Main pump components are interchangeable with some other pump manufacturer.



- 4 poles (1450rpm) electric motor with: water cooling



- Integrated elastic joint, for best pump coupling.

### Optional:

- Hose-reel with brake (hose not included) cod.3.697.0044



#### HYPER L 1515 LP

#### HYPER L 2015 LP

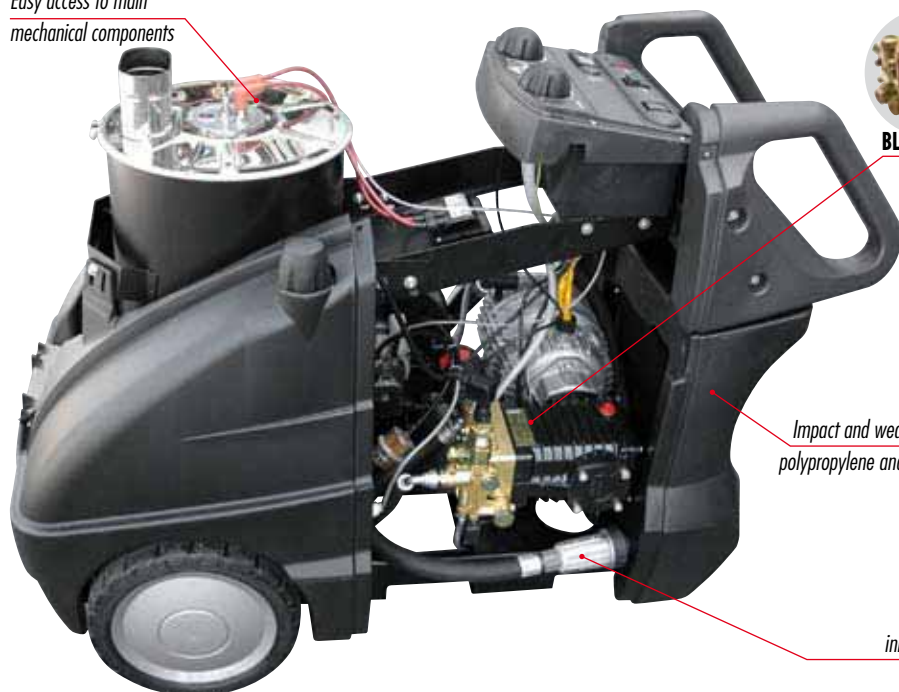
Code	8.621.0907	8.621.0908
operat. pressure/max	30÷150 bar	30÷200 bar
operat. pressure/max	435÷2175 psi	435÷2900 psi
delivery rate	330÷660 l/h	450÷900 l/h
delivery rate	1.52÷2.91 GPM	1.98÷3.96 GPM
abs. power/voltage	5500W-400V-50Hz	7300W-400V-50Hz
RPM	1450	1450
diesel tank/detergent tank	18/3,0 l.-4.8/0.79 gal	18/3,0 l.-4.8/0.79 gal
max temp. inlet/outlet	40 °C / 140 °C	40 °C / 140 °C
fuel consumption/heat output	3,78 l/h -1 gal/h / 42 kW	3,78 l/h -1 gal/h / 42 kW
machine dimensions	94x65x90 cm	94x65x90 cm
machine weight	133 kg / 292.6 lbs	135 kg / 297 lbs

# LAVOR PRO PRO Hot water high-pressure cleaner

## HyperT GUARANTEED

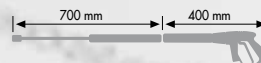
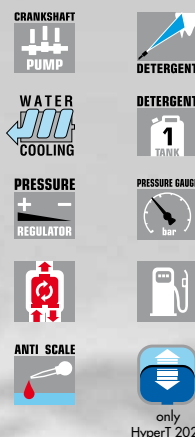
### Hyper T

Easy access to main mechanical components



Impact and weather resistant, polypropylene and polyethylene

inlet water filter



#### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Pressure accumulator for hose and gun vibrations prevention (only HyperT 2021 model).



- Integrated elastic joint, for best pump coupling.
- High (> 90%) thermal efficiency burner.



- Header tank and antiscaling device.

#### Optional:

- Hose-reel with brake (hose not included) cod. 6.608.0010
- Antiscaling LC-PRECAL (pcs. 4 x 5 lt.) cod. 3.697.0044



#### HYPER T 1515 LP

#### HYPER T 2015 LP

#### HYPER T 2021 LP

Code	8.623.0904	8.623.0905	8.623.0902
operat. pressure/max	30÷150 bar	30÷200 bar	30÷200 bar
operat. pressure/max	435÷2175 psi	435÷2900 psi	435÷2900 psi
delivery rate	345÷900 l/h	450÷900 l/h	630÷1260 l/h
delivery rate	1.52÷3.96 GPM	1.98÷3.96 GPM	2.77÷5.55 GPM
abs. power/voltage	5500W-400V-50Hz	7300-400V-50Hz	9700-400V-50Hz
RPM	1450	1450	1450
diesel tank/detergent tank/antiscaling	22/22/2,4 l.-5.82/5.82/0.63 gal	22/22/2,4 l.-5.82/5.82/0.63 gal	22/22/2,4 l.-5.82/5.82/0.63 gal
max temp. inlet/outlet	40 °C / 140 °C	40 °C / 140 °C	40 °C / 140 °C
fuel consumption/heat output	6.6 l/h - 1.25 gal/h / 88 kW	6.6 l/h - 1.25 gal/h / 88 kW	6.6 l/h / 88 kW
machine dimensions	125x69x89 cm	125x69x87 cm	125x69x89 cm
machine weight	170 Kg / 374 lbs	175 kg / 385 lbs	180 kg / 396 lbs

Hot water high-pressure cleaner with combustion engine

**LAVOR PRO**

**THERMIC 5 HW**  
Hot water self-contained unit

Tough steel main frame

Diesel tank for burner

Manual start



**BX2 13-200**

**Honda**  
unleaded  
gasoline engine  
(tank 2,5 l.)



**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- High pressure hose 10 m



- Unleaded gasoline engine with manual start.



- Direct connection pump/ engine.
- Auxiliary belt driven sturdy alternator.



- control panel

**Optional:**

- Available other accessories (see Accessoires pages).

**THERMIC 5HW**

Code	8.601.0113
operat. pressure/max	30÷100 bar (max130 bar)
operat. pressure/max	435÷1450 psi (max1885)
delivery rate	300÷600 l/h
delivery rate	1.32÷2.64 GPM
engine	5 hp
engine type	Honda GC 160
diesel tank	6 l. / 1.6 gal
max temp. inlet/outlet	40 °C / 90 °C
fuel consumption/heat output	2,83 l/h / 38 kW
machine dimensions	66x70x77 cm
machine weight	93 Kg /215.6 lbs





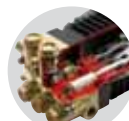
## THERMIC 10 HW

### Hot water self-contained unit

Tough steel main frame

Unique diesel tank for engine and burner

**Lombardini**  
Diesel engine

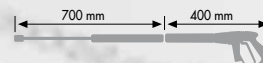


BL4 21-200

Electrical start



**T.V.**  
Thermal Valve



#### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- High pressure hose 10 m



- Diesel engine, single cylinder, air cooled.



- Electrical start with full engine functions control.
- Auxiliary belt driven sturdy alternator.



- Pump-motor gearbox (1650 r.p.m.).
- Automatic engine RPM regulator.

#### Optional:

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



#### THERMIC 10HW

Code	8.601.0099
operat. pressure/max	30÷170 bar
operat. pressure/max	435÷2465 psi
delivery rate	1020 l/h - 4.49 GPM
engine	10 hp
engine type	Lombardini 15LD400
RPM pump	1650 RPM
diesel tank	30 l. / 7.9 gal
max temp. inlet/outlet	40 °C/140 °C
fuel consumption/heat output	4,72 l/h / 58 kW
machine dimensions	68/99/74 cm
machine weight	140 Kg / 208 lbs

Hot water high-pressure cleaner with combustion engine



**THERMIC 17 HW**  
Hot water self-contained unit with integrated electric generator

Electrical start

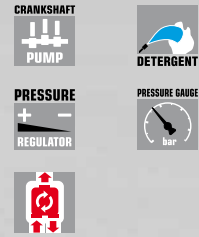
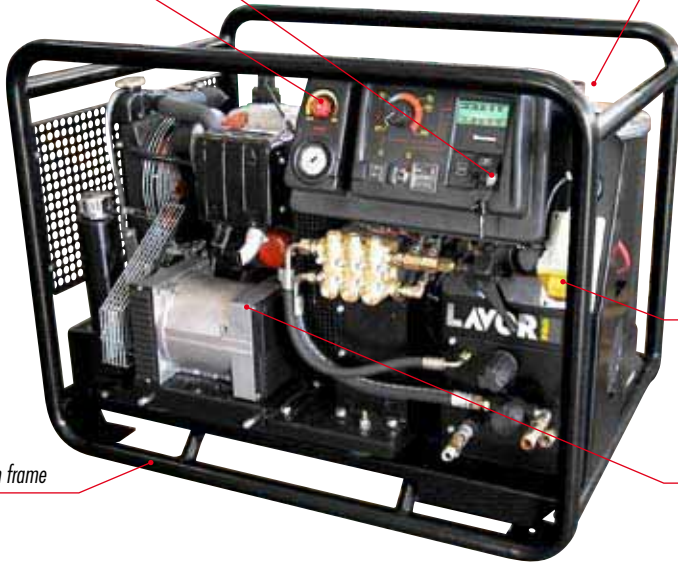
Flow rate regulation

Unique diesel tank for engine and burner.

Socket tool max 1,5 kW

Tough steel main frame

**Lombardini**  
Diesel engine



**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- High pressure hose 10 m

**Optional:**

- Varnished soundproofing steel cover set code 6.608.0013



- 2 cylinder water cooled diesel engine with electric start.



- Front panel with engine function led and automatic power cut-off.



- Belt driven pump (1450 RPM).
- Automatic engine RPM regulator.

**THERMIC 17 HW**

Code	8.601.0052
operat. pressure/max	30÷200 bar
operat. pressure/max	435÷2900 psi
delivery rate	1320 l/h - 5.82 GPM
engine	17 hp
engine type	Lombardini
RPM pump	1600 RPM
diesel tank	40 l. - 10.5 gal
max temp. inlet/outlet	40 °C/140 °C
fuel consumption/heat output	5,6 l/h / 74 kW
machine dimensions	113x76x85 cm
machine weight	218 Kg / 479.6 lbs







### Accessories

			RENO 1315	VOGA 1310 XP	LMX 1211 XP	LMX 1509 XP	LMX 2007 XP	LMX 1713 XP	DANUBIO 1211 LP	DANUBIO 1510 LP	DANUBIO 1612 LP	ONTARIO 1515 XP RA	ONTARIO 2015 XP RA	COLORADO 1211 XP
	6.001.0053	S'02C 3/8\"M - M22 gun			S	S			S	S	S			S
	6.001.0050	S'02C 1/4\"M - M22 gun	S	S										
	3.700.0028	RL 37 3/8\"M - M22 gun					S	S				S	S	
	3.700.0029	RL 37 3/8\"M - M22 gun with pressure regulator												
	3.700.0030	RL 37 3/8\"M gun with rotating coupling												
	3.700.0025*	RL30 3/8\"M - 1/4\"F gun			O	O	O	O	O	O	O	O	O	O
	3.700.0022	RL 55 3/8\"M - M24 gun												
	4.618.0049	8 m - 3/8\" M22 - Ø 1/4\" h.p. hose							S	S	S			
	4.618.0143	10 m - 3/8\" - Ø 5/16\" h.p. hose with rotating coupling 3/8\" - 310 bar												
	4.618.0050	10 m - 3/8\" - Ø 3/8\" h.p. hose												
	4.618.0056	20 m - 3/8\" - Ø 5/16\" h.p. hose - 400 bar											O	O
	4.618.0057	20 m - 3/8\" - Ø 3/8\" h.p. hose - 400 bar											O	O
	4.618.0058	10 m - 3/8\" - Ø 3/8\" - 400 bar antistain hose for food industry											O	O
	4.618.0059	10 m - 3/8\" - Ø 3/8\" max 135°C h.p. steam hose											O	O
	4.618.0142	10 m - 3/8\" - Ø 5/16\" - 210 bar h.p. hose with rotating coupling 3/8\"											S	S
	4.618.0017	10 m - 3/8\" - Ø 5/16\" h.p. hose												S
	4.618.0020	10 m - 3/8\" - Ø 5/16 - 400 bar 5/16\" h.p. hose												
	4.618.0053	10 m - 3/8\" - Ø 1/4 - 210 bar h.p. hose			S	S	S	S						
	4.018.0003	8 m - Ø 1/4\" h.p. hose	S	S										
	6.608.0019	high-pressure hose-reel (hose not included) for NPX												
	6.608.0018	high-pressure hose-reel (hose not included) for LKX												
	6.608.0010	high-pressure hose-reel (hose not included) for Tekna 4												
	6.608.0022	wall mount hose reel (hose not included)							O	O	O	O	O	O
	6.608.0008	high-pressure hose-reel (hose not included) for Ontario											O	O
	6.608.0011	high-pressure hose-reel (hose not included) for Michigan - Colorado												O
	6.608.0017	high-pressure hose-reel (hose not included) for Columbia												
	6.608.0021	high-pressure hose-reel (hose not included) for Danubio							O	O	O			
	6.603.0004	rotary brush M22	O	O	O	O	O	O	O	O	O	O	O	O
	6.602.0035	professional fixed brush M22	O	O	O	O	O	O	O	O	O	O	O	O
	6.002.0036	professional rotary brush M22	O	O	O	O	O	O	O	O	O	O	O	O
	3.100.0043	3/8\"M rotating quick coupling											O	O
	3.749.0258	M24 3/8\"M rotating quick coupling												O
	3.100.0023	3/8\" - 3/8\" hose coupling			O	O	O	O				O	O	O
	4.606.0053	3/8\" - M22 hose coupling							O	O	O			
	4.006.0062	1/4\" - M22 hose coupling	O	O										

\*= in combination with lance cod. 3.501.0030-3.501.0031-3.501.0032-3.701.0020-3.501.0025-3.501.0026-3.501.0027













COLORADO 1511 XP	MICHIGAN 1211 XP RA	MICHIGAN 1515 XP R	MICHIGAN 2015 XP RA	COLUMBIA 1211 LP RA	COLUMBIA 1515 LP RA	COLUMBIA 2015 LP RA	COLUMBIA 2021 LP RA	VICTORIA 1515 LP RA	VICTORIA 2015 LP RA	VICTORIA 2021 LP RA	MAGNUM 3317 LP	MCPV 1211 LP	MCPV 1515 LP	MCPV 2015 LP	MCPV 2021 LP	MCPX 1211 LP	MCPX 1515 LP	MCPX 2015 LP	MCPX 2021 LP	THERMIC 5H	THERMIC 10 D	THERMIC 11H	THERMIC 13H	Volcano 74	Mississippi 1310 XP	Mississippi 1310 XP DP	NPX 1211 XP	NPX 1511 XP	NPX 1813 XP	LKX 1310 XP	LKX 1515 XP	LKX 2015 XP	TEKNA 1515 LP	TEKNA 2015 LP	TEKNA HT 1521 LP	HYPER L 1211	HYPER L 1515	HYPER L 2015	HYPER T 1515	HYPER T 2015	HYPER T 2021	TEKNA HT 2021 LP	THERMIC 5 HW	THERMIC 10 HW	THERMIC 17 HW					
S	S																																																	

S = standard equipment O = optional Ø = in combination with M 24 nipple cod. 3.749.0320







			RENO 1315	VOUGA 1310 XP	LUX 1211 XP	LUX 1509 XP	LUX 2007 XP	LUX 1713 XP	DANUBIO 1211 LP	DANUBIO 1510 LP	DANUBIO 1612 LP	ONTARIO 1515 XPRA	ONTARIO 2015 XPRA
	6.602.0030	M22 high/low press. (for detergent suction) lance with adjustable head and nozzle											
	6.602.0026	M22 high/low press. (for detergent suction) lance with adjustable head and nozzle					S						
	6.002.0241	M22 high/low press. (for detergent suction) lance with adjustable head and nozzle	S										
	3.701.0015	mm 700 1/8"F high/low press. (for detergent suction) lance		S	S			S	S	S	S	S	S
	3.708.0001	mm 700 1/8"F with nozzle holder											
	3.501.0030*	mm 1500 - 1/4" M high/low press. (for detergent suction) lance			O	O	O	O	O	O	O	O	O
	3.501.0031*	mm 1700 - 1/4" M high/low press. (for detergent suction) lance			O	O	O	O	O	O	O	O	O
	3.501.0032*	mm 2000 - 1/4" M high/low press. (for detergent suction) lance			O	O	O	O	O	O	O	O	O
	3.701.0020*	mm 1050 S/S lance with nozzle-holder 1,4"M connection											
	3.501.0025*	mm 1500 - 1/4" M lance with nozzle-holder			O	O	O	O	O	O	O	O	O
	3.501.0026*	mm 1700 - 1/4" M lance with nozzle-holder			O	O	O	O	O	O	O	O	O
	3.501.0027*	mm 2000 - 1/4" M lance with nozzle-holder			O	O	O	O	O	O	O	O	O
	6.602.0006	type 1 - M22 turbo lance (max 11 l/min)	O	O	O	O			O	O			
	6.602.0007	type 2 - M22 turbo lance (11-15 l/min)						O				O	O
	6.602.0008	type 3 - M22 turbo lance (more than 15 l/min)											
	6.602.0034	mm 700 - M22 lance with triple nozzle	S										
	6.602.0003	M22 indirect foam lance	O	O	O	O	O	O	O	O	O	O	O
	3.103.0035	3/8" professional pipe cleaning nozzle			O	O	O	O	O	O	O	O	O
	3.102.0011	water filter 3/4F - 3/4 M	O	O	O	O	O	O	O	O	O	O	O
	3.749.0191	G 3/4 - F/F suction filter "Y"	O	O	O	O	O	O	O	O	O	O	O
	6.602.0021	S/S hoses/guns quick coupling se			O	O	O	O	O	O	O	O	O
	6.608.0003	3/8 - 3/8 brass hoses/guns quick coupling set			O	O	O	O	O	O	O	O	O
	6.608.0002	1/4 - 1/4 brass hoses/guns quick coupling set	O	O									
	6.602.0027	M22 040 Widia sand-blasting lance	O	O		O	O			O	O		
	6.602.0028	M22 050 Widia sand-blasting lance			O			O	O			O	O
	6.602.0029	M22 075 Widia sand-blasting lance											

\*= in combination with gun cod. 3.700.0025



S/S prolonged adjustable probe  
Ø 21 for sand-blasting.



Sand-blasting head\*\* nozzle  
G1/4" max. 400 bar with internal  
tungsten carbide conveyor.

**FOR EACH MODELS**

- 3.749.0207 sand-blasting head nozzle max. 400 bar
- 3.749.0208 round sand-blasting head nozzle max. 400 bar
- 3.749.0209 extended sand-blasting head nozzle max. 400 bar
- 3.749.0210 S/S prolonged adjustable probe

\*\* Sand-blasting heads are not supplied  
with nozzles.  
Use them in combination with:  
code 3.749.0432 - 15050 nozzle  
code 3.749.0433 - 15045 nozzle  
code 3.749.0434 - 15040 nozzle

**Motorized head**

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



for Magnum 3317 LP - Thermic 13H and Thermic 17 HW  
in combination with M24 nipple cod. 3.749.0320



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**

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



for Magnum 3317 LP - Thermic 13H and Thermic 17 HW  
in combination with M24 nipple cod. 3.749.0320



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

**Rotary Floor Cleaning Lance**

- S/S floor cleaning lance
- For washing terraces and external floors in general
- Self stirring head with two rotating nozzles (nozzles not included).



for Magnum 3317 LP - Thermic 13H and Thermic 17 HW  
in combination with M24 nipple cod. 3.749.0320



Rotary Floor Cleaning Lance	
Code	3.749.0188
operat. pressure	250 bar - 3625 psi
allowed pressure	280 bar - 4060 psi
operat. delivery rate	2400 l/h - 10,59 GPM
nominal temperature	80° C
nozzle type	1/4 Npt M

# LAVOR PRO Cold water high-pressure cleaner

**Special voltage  
220V & 380V~60 Hz**

**60  
Hz**



LMX



Danubio



Ontario



Michigan

Code	Model	pag.	operating pressure (max pressure)	operating pressure (max pressure)	delivery rate	delivery rate	absorbed power	rpm	voltage	max water temperature	weight with packaging	dimensions packaging	pieces for pallet
			bar	psi	l/h	GPM USA	W	RPM	V-Hz	°C	Kg / lbs	cm	n° (cm x cm)
8.613.0026	LMX 1609 XP	-	50÷160 (max 200)	725÷2320 (max 2900)	325÷510	1.43÷2.25	3300	1700	220-60	40	32/70.4	60x37,5 h 74	12(120x80)
8.613.0014	LMX 1713 XP	-	50÷170	725÷2465	350÷800	1.54÷3.52	4700	1700	3ph 220-60	40	32/70.4	60x37,5 h 74	12(120x80)
8.659.0002	DANUBIO 1211 LP	50	30÷120 (max150)	435÷1740 (max2175)	345÷660	1.52÷2.91	3000	1700	220-60	40	36/79.2	75x40 h 62	9(120x80)
8.659.0010	DANUBIO 1511 LP	50	30÷150	435÷2175	345÷660	1.52÷2.91	4000	1700	380-60	40	36/79.2	75x40 h 62	9(120x80)
8.655.0009	ONTARIO 1013 XP RA	51	30÷100 (max120)	435÷1450 (max1740)	390÷780	1.71÷3.43	3300	1700	220-60	40	46/101.2	75x40 h 62	9(120x80)
8.655.0010	ONTARIO 2015 XP RA	51	30÷200	435÷2900	450÷900	1.98÷3.96	7000	1700	380-60	40	47/103.4	75x40 h 62	9(120x80)
8.655.0014	ONTARIO 2015 XP RA	51	30÷200	435÷2900	450÷900	1.98÷3.96	7000	1700	3ph 220-60	40	47/103.4	75x40 h 62	9(120x80)
8.657.0008	MICHIGAN 1013 XP RA	52	30÷100 (max120)	435÷1450 (max1740)	390÷780	1.71÷3.43	3300	1700	220-60	40	51/112.2	50x60 h 107	1 (120x80)
8.657.0010	MICHIGAN 2015 XP RA	52	30÷200	435÷2900	450÷900	1.98÷3.96	7000	1700	380-60	40	55/121	50x60 h 107	1 (120x80)
8.654.0012	COLUMBIA 1211 LP RA	53	30÷100 (max120)	435÷1450 (max1740)	390÷780	1.71÷3.43	3300	1700	220-60	40	47/103.4	50x60 h 107	1 (120x80)
8.654.0009	COLUMBIA 2018 LP RA 380V	53	30÷200	435÷2900	540÷1080	2.38÷4.78	8400	1700	380-60	40	51/112.2	55x62 h 58	12 (120x100)





**Special voltage  
220V & 380V~60 Hz**



Columbia



Victoria



Magnum



MCHP



Code	Model	pag.	operating pressure (max. pressure)	operating pressure (max. pressure)	delivery rate	delivery rate	absorbed power	rpm	voltage	max. water temperature	weight with packaging	dimensions, packaging	pieces for pallet
			bar	psi	l/h	GPM USA	W	RPM					
8.654.0014	COLUMBIA 2018 LP RA 220V	53	30÷200	435÷2900	540÷1080	2.38÷4.78	8400	1700	3ph 220-60	40	51/112.2	55x62 h 58	12 (120x100)
8.616.0702	VICTORIA 2013 LP RA 380V	54	30÷200	435÷2900	390÷780	1.71÷3.43	6800	1700	380-60	40	83/182.6	85x64,5 h 100	1 (120x80)
8.616.0703	VICTORIA 2013 LP RA 220V	54	30÷200	435÷2900	390÷780	1.71÷3.43	6800	1700	3ph 220-60	40	83/182.6	85x64,5 h 100	1 (120x80)
8.616.0713	VICTORIA 2018 LP RA 220V	54	30÷200	435÷2900	540÷1080	2.38÷4.78	8400	1700	3ph 220-60	40	84/184.8	85x64,5 h 100	1 (120x80)
8.651.0007	MAGNUM 2724 LP	55	270	3915	1440	6,34	14500	1700	380-60	40	157/345.4	128x75 h 123	1 (120x80)
8.626.0009	MCHPV 1211 LP 220V	-	30÷120 (max150)	435÷1740 (max2175)	345÷660	1.52÷2.91	3000	1700	220-60	40	40/88	75x50 h35	9 (120x80)
8.626.0010	MCHPV 2018 LP 380V	-	30÷200	435÷2900	540÷1080	2.38÷4.78	8400	1700	380-60	40	50/110	75x50 h35	9 (120x80)
8.626.0011	MCHPX 1211 LP 220V	-	30÷120 (max150)	435÷1740 (max2175)	345÷660	1.52÷2.91	3000	1700	220-60	40	40/88	75x50 h35	9 (120x80)
8.626.0012	MCHPX 2018 LP 380V	-	30÷200	435÷2900	540÷1080	2.38÷4.78	8400	1700	380-60	40	50/110	75x50 h35	9 (120x80)



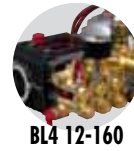
# LAVOR PRO COLD WATER HIGH-PRESSURE CLEANER

## DANUBIO LP

Ergonomic handle

Power cable holder

**60 Hz**



**TS** Total Stop (single phase)

**TS** Total Stop (three phase)



### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 8 m



- Three ceramic pistons, brass linear. pump head with built-in by-pass valve.



### Optional:

- High-pressure hose-reel cod. 6.608.0021



### DANUBIO 1211 LP

### DANUBIO 1511 LP

Code	8.659.0002	8.659.0010
operat. pressure/max	30÷120 bar (max150)	30÷150 bar
operat. pressure/max	435÷1740 psi (max 2175)	435÷2175 psi
delivery rate	345÷660 l/h	345÷660 l/h
delivery rate	1.5÷2.2 GPM	1.5÷2.2 GPM
abs. power/voltage	3000W-220V~60 Hz	4000W-380V~60 Hz
RPM	1700	1700
detergent tank	3,8 l./1 gal	3,8 l./1 gal
inlet max temperature	40 °C	40 °C
machine dimensions	76x41x75 cm	76x41x75 cm
machine weight	33 Kg/72.6 lbs	33 Kg/72.6 lbs

ONTARIO XP

Ergonomic handle

Optional: hose-reel

Power cable holder

60 Hz



Wobble plate  
PUMP

WATER COOLING

PRESSURE REGULATOR

DETERGENT TANK 1

PRESSURE GAUGE

T.V. Thermal Valve

1700 RPM

700 mm | 400 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Pressure regulator.
- Glycerine pressure gauge.



Optional:

- High-pressure hose-reel cod. 6.608.0008



	ONTARIO 1013 XP	ONTARIO 2015 XP	ONTARIO 2015 XP 3PH
Code	8.655.0009	8.655.0010	8.655.0014
operat. pressure/max	30÷100 bar (max 120)	30÷200 bar	30÷200 bar
operat. pressure/max	435÷1450 psi (max 1740)	435÷2900 psi	435÷2900 psi
delivery rate	390÷780 l/h	450÷900 l/h	450÷900 l/h
delivery rate	1.71÷3.43 GPM	1.98÷3.96 GPM	1.98÷3.96 GPM
abs. power/voltage	3300W-220V~60 Hz	7000W-380V~60 Hz	7000W-220V~60 Hz 3ph
RPM	1700	1700	1700
detergent tank	3,8 l./1 gal	3,8 l./1 gal	3,8 l./1 gal
inlet max temperature	40 °C	40 °C	40 °C
machine dimensions	76x41x75 cm	76x41x75 cm	76x41x75 cm
machine weight	44 Kg/96.8 lbs	45 Kg/99 lbs	45 Kg/99 lbs



# LAVOR PRO COLD WATER HIGH-PRESSURE CLEANER

## Cold water high-pressure cleaner



Ergonomic handle

Optional: hose-reel

**60 Hz**



**BX4 15-200**

WOBBLE PLATE PUMP

DETERGENT

WATER COOLING

DETERGENT 2 TANKS

PRESSURE REGULATOR

PRESSURE GAUGE

**1700 RPM**

**TS Total Stop** (single phase)

**TS Total Stop 24V** (three phase)

700 mm

400 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m

• Pump

• Adjustable wax/detergent suction with double built-in tank (2 x 4,7 liters).



**Optional:**

- High-pressure hose-reel cod. 6.608.0011

	MICHIGAN 1013 XP	MICHIGAN 2015 XP
Code	8.657.0008	8.657.0010
operat. pressure/max	30÷100 bar (max120)	30÷200 bar
operat. pressure/max	435÷1450 psi (max1740)	435÷2900 psi
delivery rate	390÷780 l/h	450÷900 l/h
delivery rate	1.71÷3.43 GPM	1.98÷3.96 GPM
abs. power/voltage	3300W-220V~60 Hz	7000W-380V~60 Hz
RPM	1700	1700
detergent tank	4,7 l. (x2) / 1.24 gal (x2)	4,7 l. (x2) / 1.24 gal (x2)
inlet max temperature	40 °C	40 °C
machine dimensions	60x55x107 cm	60x55x107 cm
machine weight	44 Kg / 96.8 lbs	48 Kg / 105.6 lbs

COLUMBIA LP



**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



• Overload safety valve.



Optional:

- High-pressure hose-reel cod. 6.608.0017



	COLUMBIA 1211 LP	COLUMBIA 2018 LP	COLUMBIA 2018 LP 3PH
Code	8.654.0012	8.654.0009	8.654.0014
operat. pressure/max	30÷100 bar (max120)	30÷200 bar	30÷200 bar
operat. pressure/max	435÷1450psi (max1740)	435÷2900psi	435÷2900psi
delivery rate	390÷780 l/h	540÷1080 l/h	540÷1080 l/h
delivery rate	1.71÷3.43 GPM	2.38÷4.78 GPM	2.38÷4.78 GPM
abs. power/voltage	3300÷220V~60Hz	8400÷380V~60Hz	8400÷220V~60Hz 3ph
RPM	1700	1700	1700
detergent tank	-	-	-
inlet max temperature	40 °C	40 °C	40 °C
machine dimensions	50x90x83 cm	50x90x83 cm	50x90x83 cm
machine weight	44 Kg/96.8 lbs	47.5 Kg/104.5 lbs	47.5 Kg/104.5 lbs

# LAVOR PRO COLD WATER HIGH-PRESSURE CLEANER

## VICTORIA LP



Ergonomic handle

Detergent/wax selector

Accessory holder  
Power cable holder



BL4 21-200

**60 Hz**

**CRANKSHAFT PUMP**  
**DETERGENT**  
**WATER COOLING**  
**DETERGENT 2 TANKS**  
**PRESSURE REGULATOR**  
**PRESSURE GAUGE**

**TS Total Stop 24V**  
**1700 RPM**

700 mm | 400 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m

• Low voltage main switch (24 V)

• Double detergent/wax built-in tank with adjustable suction.



**Optional:**

- Wall mount hose reel cod. 6.608.0022

	VICTORIA 2013 LP	VICTORIA 2013 LP 3 PH	VICTORIA 2018 LP
Code	8.616.0702	8.616.0703	8.616.0713
operat. pressure/max	30÷200 bar	30÷200 bar	30÷200 bar
operat. pressure/max	435÷2900 psi	435÷2900 psi	435÷2900 psi
delivery rate	390÷780 l/h	390÷780 l/h	540÷1080 l/h
delivery rate	1.71÷3.43 GPM	1.71÷3.43 GPM	2.38÷4.78 GPM
abs. power/voltage	6800W-380V~60 Hz	6800W-220V~60 Hz 3 Ph	8400W-220V~60 Hz
RPM	1700	1700	1700
detergent tank	14 l. + 2,5 l. /3.70+0.66 gal	14 l. + 2,5 l. /3.70+0.66 gal	14 l. + 2,5 l. /3.70+0.66 gal
inlet max temperature	40 °C	40 °C	40 °C
machine dimensions	80x55x80 cm	80x55x80 cm	80x55x80 cm
machine weight	73 Kg / 160.2 lbs	73 Kg / 160.2 lbs	75 Kg / 165 lbs



MAGNUM LP

60 Hz



Ergonomic handle

Accessory holder  
Power cable holder

Steel frame

Front rotating wheels.

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Low voltage main switch (24 V)
- Power lamp.
- Safety valve with water discharge.

**Optional:**

- Available other accessories (see Accessoires pages).

MAGNUM 2724 LP

Code	8.651.0007
operating pressure	270 bar
operating pressure	3915 psi
delivery rate	1440 l/h
delivery rate	6.34 GPM
abs. power/voltage	14500W-380V~60 Hz
RPM	1700
degreaser tank	-
inlet max temperature	40 °C
machine dimensions	110x66x97 cm
machine weight	138 Kg /303.6 lbs

# LAVOR PRO PRO Hot water high-pressure cleaner

**60 Hz**

**Special voltage  
220V & 380V~60 Hz**



Mississippi

NPX

Tekna

Tekna HT

Hyper L

Hyper T

Code	Model	pag	operating pressure (max pressure)	operating pressure (max pressure)	delivery rate	delivery rate	absorbed power	rpm	voltage	no outlet temp.	fuel consumption	diesel tank	antiscala tank	heat output	packaging	packaging weight
			bar (max bar)	psi	l/h	GPM (USA)	W	RPM	V-Hz	°C	l/h - gal/h	l - gal	l - gal	kW	cm x cm x cm	Kg / lbs
8.625.0003	MISSISSIPPI 1310 XP	57	130 (max150)	1885 (max2175)	600	2,64	3000	3400	220-60	40	2.83/0.75	14/3.70	-	38	80x55x83	65/143
8.620.0019	NPX 1211 XP	58	30÷100 (max120)	435÷1450 (max1740)	390÷780	1.71÷3.43	3300	3400	220-60	40	3.78/1	18/4.76	-	42	94x65x90	113/248.6
8.620.0030	NPX 1511 XP	58	30÷150	435÷2175	390÷780	1.71÷3.43	4000	3400	380-60	40	3.78/1	18/4.76	-	42	94x65x90	114/250.8
8.622.0905	TEKNA 1211 LP RA	59	30÷100 (max120)	435÷1450 (max1740)	345÷660	1.52÷2.91	3300	1700	220-60	40	4.7/1.25	18/4.76	2,4/0.63	58	125x69x87	113/248.6
8.622.0906	TEKNA 2013 LP	59	30÷200	435÷2900	390÷780	1.71÷3.43	7000	1700	3ph 220-60	40	5.7/1.5	18/4.76	2,4/0.63	74	125x69x87	114/250.8
8.621.0911	HYPER L 1211 LP	60	30÷11 (max150)	435÷1595 (max2175)	345÷660	1.52÷2.91	3000	1700	220-60	40	4.7/1.25	22/5.82	-	58	94x65x90	124/272.8
8.621.0910	HYPER L 2018 LP RA	61	30÷200	435÷2900	540÷1080	2.38÷4.78	8700	1700	380-60	40	6.6/1.75	22/5.82	-	88	94x65x90	166/365.2
8.623.0906	HYPER T 2018 LP	62	30÷200	435÷2900	540÷1080	2.38÷4.78	8700	1700	380-60	40	6.6/1.75	22/5.82	2,4/0.63	88	125x69x87	181/398.2



# PRO PRO

## Hot water high-pressure cleaner

# LAVOR PRO

### MISSISSIPPI

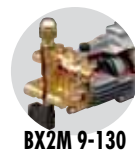
Ergonomic handle

Temperature regulation gauge

**60**  
Hz



Accessory holder  
Power cable holder

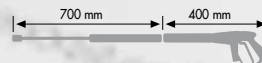


MISSISSIPPI 1310 XP DP



MISSISSIPPI 1310 XP

**T.S.** Total Stop



#### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 8 m

#### Optional:

- Available other accessories (see Accessoires pages).

- Vertical burner with high thermal efficiency steel coil.
- Diesel pump with by-pass valve.



#### MISSISSIPPI 1310 XP

Code	8.625.0003
operat. pressure/max	130 bar (max150)
operat. pressure/max	1885 psi (max2175)
delivery rate	600 l/h
delivery rate	2.64 GPM
abs. power/voltage	3000W - 220~60Hz
RPM	3400
diesel tank/detergent tank	14/2,5 l. - 3.7/0.66 gal
max temp. inlet/outlet	40 °C / 90 °C
fuel consumption/heat output	2,83 l/h - 0.75 gal/h / 38 kW
machine dimensions	80x55x83 cm
machine weight	54 Kg/121 lbs



# LAVOR PRO Hot water high-pressure cleaner

**60 Hz**

## NPX XP



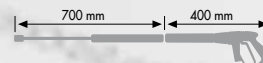
Panel with analog controls



BX2 13-200

Accessories holder  
Power cable holder

Steel frame



### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Vertical burner with high thermal efficiency steel coil.
- Temperature regulation gauge.
- Safety valve.
- Low fuel lamp.



- Heavy duty steel frame.

### Optional:

- Hose-reel with brake (hose not included) cod.3.697.0044



	NPX 1211 XP	NPX 1511 XP
Code	8.620.0019	8.620.0030
operat. pressure/max	30÷100(max120)	30÷150
operat. pressure/max	435÷1450psi (max1740)	435÷2175psi
delivery rate	330÷660 l/h	330÷660 l/h
delivery rate	1.71÷3.43 GPM	1.71÷3.43 GPM
abs. power/voltage	3000W - 220V~60Hz	4000W - 380V~60Hz
RPM	3400	3400
diesel tank/detergent tank	18/3,0 l. - 4.76/0.79 gal	18/3,0 l. - 4.76/0.79 gal
max temp. inlet/outlet	40 °C / 140 °C	40 °C / 140 °C
fuel consumption/heat output	3,78 l/h - 1 gal/h / 42 kW	3,78 l/h - 1 gal/h / 42 kW
machine dimensions	94x65x90 cm	94x65x90 cm
machine weight	97 kg /213.4 lbs	98 kg /215.6 lbs

# PROPRO

## Hot water high-pressure cleaner

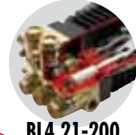
# LAVOR PRO

**60 Hz**

### Tekna LP



Ergonomic handle



BL4 21-200

Optional: hose-reel

Accessory holder  
Power cable holder

Heavy duty steel frame

**CRANKSHAFT PUMP**  
**WATER COOLING**  
**PRESSURE REGULATOR**  
**DETERGENT**  
**DETERGENT TANK 1**  
**PRESSURE GAUGE**  
**ANTI SCALE**  
**T.S. Total Stop 24V**  
**1700 RPM**

700 mm | 400 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Low voltage main switch (24 V)



- Vertical burner with high thermal efficiency steel coil.
- Auxiliary motor for burner.



- Header tank and antiscaling device.

**Optional:**

- Hose-reel with brake (hose not included) cod. 6.608.0010
- Antiscale LC-PRECAL (pcs. 4 x 5 lt.) cod. 3.697.0044

	TEKNA 1211 LP	TEKNA 2013 LP
Code	8.622.0905	8.622.0906
operat. pressure/max	30÷100 bar (max120)	30÷200 bar
operat. pressure/max	435÷1450 psi (max1740)	435÷2900 psi
delivery rate	345÷660 l/h	540÷780 l/h
delivery rate	1.52÷2.91 GPM	1.71÷3.43 GPM
abs. power/voltage	3300W-380V~60Hz	7000W-220V~60Hz 3ph
RPM	1700	1700
diesel tank/detergent tank/antiscaling	22/22/2,4 l. - 5.82/5.82/0.63 gal	22/22/2,4 l. - 5.82/5.82/0.63 gal
max temp. inlet/outlet	40 °C / 140 °C	40 °C / 140 °C
fuel consumption/heat output	4.72 l/h - 1.25 gal/h / 58 kW	4.72 l/h - 1.25 gal/h / 58 kW
machine dimensions	125x69x87 cm	125x69x87 cm
machine weight	138 Kg / 303.69 lbs	143 kg / 314.6 lbs



# LAVOR PRO PRO

## Hot water high-pressure cleaner

# Hyper L

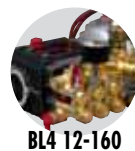
GUARANTEED

**Hyper L**  
(single phase)

**60**  
Hz

Easy access to main  
mechanical components

Impact and weather  
resistant, single piece  
polypropylene cover



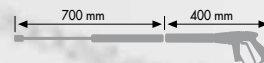
BL4 12-160

Lance/gun holder



**TS**  
Total Stop  
24V

**1700**  
RPM



### Standard equipment:

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- Vertical burner with high thermal efficiency steel coil.
- Safety valve.



- Auxiliary motor for burner air cooling and mechanical two ways fuel pump.



- Temperature regulation gauge with high sensitive stainless steel sensor.
- Low fuel lamp and cut-off.

### Optional:

- Hose-reel with brake (hose not included) cod.3.697.0044



### HYPER L 1211 LP

Code	8.621.0911
operat. pressure/max	30÷110 bar (max150)
operat. pressure/max	435÷1595 psi (max2175)
delivery rate	345÷660 l/h
delivery rate	1.52÷2.91 GPM
abs. power/voltage	3000W-220V~60Hz
RPM	1700
diesel tank/detergent tank	18/3,0 l. - 4.76/0.79 gal
max temp. inlet/outlet	40 °C / 140 °C
fuel consumption/heat output	4,7 l/h-1.25 gal/h / 58 kW
machine dimensions	94x65x90 cm
machine weight	125 kg / 275 lbs



# Hyper L

GUARANTEED

## Hyper L (three phase)

Panel with analogic controls

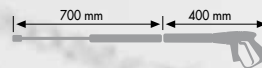
Easy access to main mechanical components

Heavy frame



BL4 21-200

**60 Hz**



**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m

**Optional:**

- Hose-reel with brake (hose not included) cod.3.697.0044



- Main pump components are interchangeable with some other pump manufacturer.



- 4 poles electric motor with water cooling.



- Integrated elastic joint, for best pump coupling.

**HYPER L 2018 LP**

Code	8.621.0910
operat. pressure/max	30÷200 bar
operat. pressure/max	435÷2900 psi
delivery rate	540÷1080 l/h
delivery rate	2.38÷4.78 GPM
abs. power/voltage	8700W-380V~60Hz
RPM	1700
diesel tank/detergent tank	18/3,0 l. - 4.76/0.79 gal
max temp. inlet/outlet	40 °C / 140 °C
fuel consumption/heat output	6.6 l/h - 1.75 gal/h / 88 kW
machine dimensions	94x65x90 cm
machine weight	132 kg / 290.4 lbs

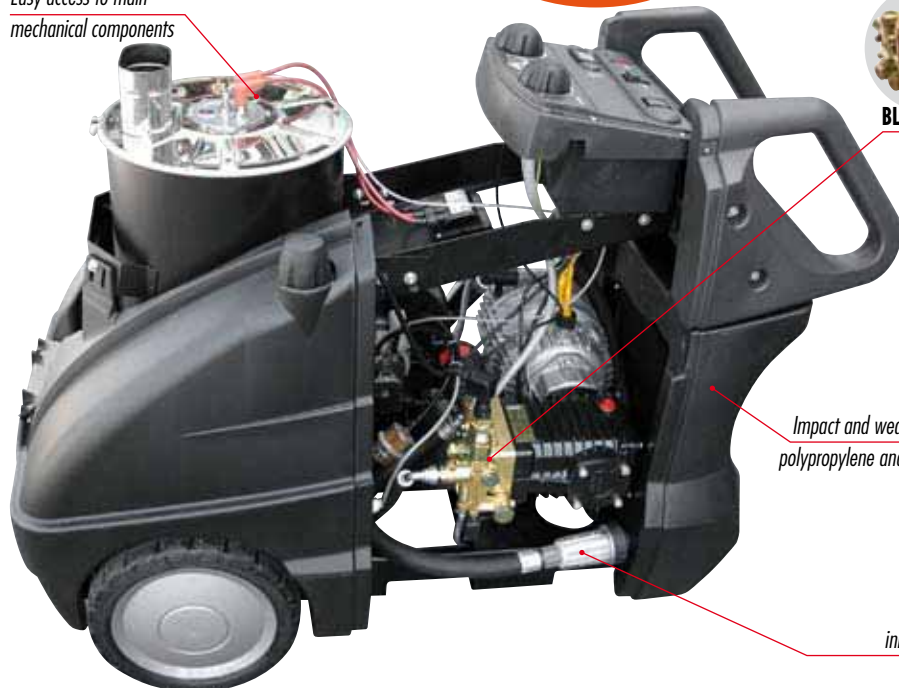
# LAVOR PRO PRO Hot water high-pressure cleaner

## HyperT GUARANTEED

60 Hz

## Hyper T

Easy access to main mechanical components



Impact and weather resistant, polypropylene and polyethylene

inlet water filter

model HyperT 2021

TS Total Stop 24V 1450 RPM

700 mm 400 mm

**Standard equipment:**

- Gun with rotating coupling.
- Lance with nozzle-holder.
- Power cable 5 m
- High pressure hose 10 m



- High (> 90%) thermal efficiency burner.
- Safety valve.



- Integrated elastic joint, for best pump coupling.



- Header tank and antiscaling device.

### Optional:

- Hose-reel with brake (hose not included) cod. 6.608.0010
- Antiscaling LC-PRECAL (pcs. 4 x 5 lt.) cod. 3.697.0044



### HYPER T 2018 LP

Code	8.622.0906
operat. pressure/max	30÷200 bar
operat. pressure/max	435÷2900 psi
delivery rate	540÷1080 l/h
delivery rate	2.38÷4.78 GPM
abs. power/voltage	8700W-380V~60Hz
RPM	1700
diesel tank/detergent tank/antiscaling	22/22/2,4 l. - 5.82/5.82/0.63 gal
max temp. inlet/outlet	40 °C / 140 °C
fuel consumption/heat output	6.6 l/h - 1.75 gal/h / 88 kW
machine dimensions	125x69x87 cm
machine weight	180 kg / 396 lbs

	6.001.0053	S'02C 3/8\"M - M22 gun
	6.001.0050	S'02C 1/4\"M - M22 gun
	3.700.0028	RL 37 3/8\"M - M22 gun
	3.700.0029	RL 37 3/8\"M - M22 gun with pressure regulator
	3.700.0030	RL 37 3/8\"M gun with rotating coupling
	3.700.0025*	RL30 3/8\"M - 1/4\"F gun
	3.700.0022	RL 55 3/8\"M - M24 gun
	4.618.0049	8 m - 3/8\" M22 - Ø 1/4\" h.p. hose
	4.618.0143	10 m - 3/8\" - Ø 5/16\" h.p. hose with rotating coupling 3/8\" - 310 bar
	4.618.0050	10 m - 3/8\" - Ø 3/8\" h.p. hose
	4.618.0056	20 m - 3/8\" - Ø 5/16\" h.p. hose - 400 bar
	4.618.0057	20 m - 3/8\" - Ø 3/8\" h.p. hose - 400 bar
	4.618.0058	10 m - 3/8\" - Ø 3/8\" - 400 bar antistain hose for food industry
	4.618.0059	10 m - 3/8\" - Ø 3/8\" max 135°C h.p. steam hose
	4.618.0142	10 m - 3/8\" - Ø 5/16\" - 210 bar h.p. hose with rotating coupling 3/8\"
	4.618.0017	10 m - 3/8\" - Ø 5/16\" h.p. hose
	4.618.0020	10 m - 3/8\" - Ø 5/16\" - 400 bar 5/16\" h.p. hose
	4.618.0053	10 m - 3/8\" - Ø 1/4\" - 210 bar h.p. hose
	4.018.0003	8 m - Ø 1/4\" h.p. hose
	6.608.0019	high-pressure hose-reel (hose not included) for NPX
	6.608.0018	high-pressure hose-reel (hose not included) for LKX
	6.608.0010	high-pressure hose-reel (hose not included) for Tekna 4
	6.608.0022	wall mount hose reel (hose not included)
	6.608.0008	high-pressure hose-reel (hose not included) for Ontario
	6.608.0011	high-pressure hose-reel (hose not included) for Michigan - Colorado
	6.608.0017	high-pressure hose-reel (hose not included) for Columbia
	6.608.0021	high-pressure hose-reel (hose not included) for Danubio
	6.603.0004	rotary brush M22
	6.602.0035	professional fixed brush M22
	6.002.0036	professional rotary brush M22
	3.100.0043	3/8\"M rotating quick coupling
	3.749.0258	M24 3/8\"M rotating quick coupling
	3.100.0023	3/8\"- 3/8\" hose coupling
	4.606.0053	3/8\"- M22 hose coupling
	4.006.0062	1/4\"- M22 hose coupling

\*= in combination with lance cod. 3.501.0030-3.501.0031-3.501.0032-3.701.0020-3.501.0025-3.501.0026-3.501.0027



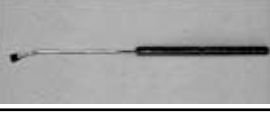













DANUBIO 1211 LP	DANUBIO 1511 LP	ONTARIO 1013 XP RA	ONTARIO 2015 XP 380V	ONTARIO 2015 XP 220V	MICHIGAN 1013 XP RA	MICHIGAN 2015 XP R	COLUMBIA 1211 LP RA	COLUMBIA 2018 380V	COLUMBIA 2018 220V	VICTORIA 2013 380V	VICTORIA 2013 220V	VICTORIA 2018 LP RA	MAGNUM 2724 LP	MCHPV 1211 LP	MCHPV 2018 LP	MCHPX 1211 LP	MCHPX 2018 LP	Mississippi 1310 XP	NPX 1211 XP	NPX 1511 XP	TEKNA 1211 LP	TEKNA 2013 LP	HYPER L 1211 LP	HYPER L 2013 LP	HYPER T 2018 LP	
S	S				S		S											S	S	S						
				S	S	S		S	S	S	S	S										S	S			
O	O	O	O	O	O	O	O	O	O	O	O	O		O	O	O	O	O	O	O	O	O	O	O	O	O
																							S	S	S	
													S													
S	S																	S				S	S	S	S	
												S										S	S	S	S	
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
				S	S	S		S	S	S	S	S							S	S		S				
					S	S								S												
																					O	O				
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
		O	O																				O	O		
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O														
O	O	O	O	O	O	O	O	O	O	O	O	O														
O	O	O	O	O	O	O	O	O	O	O	O	O														
O	O	O	O	O	O	O	O	O	O	O	O	O														
O	O	O	O	O	O	O	O	O	O	O	O	O														
O	O	O	O	O	O	O	O	O	O	O	O	O														
O	O	O	O	O	O	O	O	O	O	O	O	O														



S = standard equipment O = optional Ø = in combination with M 24 nipple cod. 3.749.0320

	6.602.0030	M22 high/low press. (for detergent suction) lance with adjustable head and nozzle
	6.602.0026	M22 high/low press. (for detergent suction) lance with adjustable head and nozzle
	6.002.0241	M22 high/low press. (for detergent suction) lance with adjustable head and nozzle
	3.701.0015	mm 700 1/8" F high/low press. (for detergent suction) lance
	3.708.0001	mm 700 1/8" F with nozzle holder
	3.501.0030*	mm 1500 - 1/4" M high/low press. (for detergent suction) lance
	3.501.0031*	mm 1700 - 1/4" M high/low press. (for detergent suction) lance
	3.501.0032*	mm 2000 - 1/4" M high/low press. (for detergent suction) lance
	3.701.0020*	mm 1050 S/S lance with nozzle-holder 1,4" M connection
	3.501.0025*	mm 1500 - 1/4" M lance with nozzle-holder
	3.501.0026*	mm 1700 - 1/4" M lance with nozzle-holder
	3.501.0027*	mm 2000 - 1/4" M lance with nozzle-holder
	6.602.0006	type 1 - M22 turbo lance (max 11 l/min)
	6.602.0007	type 2 - M22 turbo lance (11-15 l/min)
	6.602.0008	type 3 - M22 turbo lance (more than 15 l/min)
	6.602.0034	mm 700 - M22 lance with triple nozzle
	6.602.0003	M22 indirect foam lance
	3.103.0035	3/8" professional pipe cleaning nozzle
	3.102.0011	water filter 3/4 F - 3/4 M
	3.749.0191	G 3/4 - F/F suction filter "Y"
	6.602.0021	S/S hoses/guns quick coupling set
	6.608.0003	3/8 - 3/8 brass hoses/guns quick coupling set
	6.608.0002	1/4 - 1/4 brass hoses/guns quick coupling set
	6.602.0027	M22 040 Widia sand-blasting lance
	6.602.0028	M22 050 Widia sand-blasting lance
	6.602.0029	M22 075 Widia sand-blasting lance

\*= in combination with gun cod. 3.700.0025



DANUBIO 1211 LP	DANUBIO 1511 LP	ONTARIO 1013 XP RA	ONTARIO 2015 XP 380V	ONTARIO 2015 XP 220V	MICHIGAN 1013 XP RA	MICHIGAN 2015 XP R	COLUMBIA 1211 LP RA	COLUMBIA 2018 380V	COLUMBIA 2018 220V	VICTORIA 2013 380V	VICTORIA 2013 220V	VICTORIA 2018 LP RA	MAGNUM 2724 LP	MCHPV 1211 LP	MCHPV 2018 LP	MCHPX 1211 LP	MCHPX 2018 LP	Mississippi 1310 XP	NPX 1211 XP	NPX 1511 XP	TEKNA 1211 LP	TEKNA 2013 LP	HYPER L 1211 LP	HYPER L 2013 LP	HYPER T 2018 LP
	S	S	S	S	S	S	S	S	S	S	S			O	O	O	O		S	S					
														O	O	O	O				S	S	S	S	S
	O	O	O	O	O	O	O	O	O	O	O	O		O	O	O	O	O	O		O	O	O	O	O
	O	O	O	O	O	O	O	O	O	O	O	O		O	O	O	O	O	O		O	O	O	O	O
	O	O											S												
	O	O	O	O	O	O	O	O	O	O	O	O		O	O	O	O	O	O	O	O	O	O	O	O
	O	O	O	O	O	O	O	O	O	O	O	O		O	O	O	O	O	O	O	O	O	O	O	O
	O	O	O	O	O	O	O	O	O	O	O	O		O	O	O	O	O	O	O	O	O	O	O	O
			O	O	O	O				O	O											O			
	O	O	O	O	O	O	O	O	O	O	O	O		O	O	O	O	O	O	O	O	O	O	O	O
	O			O	O					O	O										O				



S = standard equipment   O = optional   Ø = in combination with M24 nipple cod. 3.749.0320



	nozzle 0°									nozzle 15°									nozzle 25°																				
	3.103.0037	3.103.0028	3.103.0034	3.103.0029	3.103.0030	3.103.0031	3.103.0024	3.103.0025	3.103.0070	3.103.0033	3.103.0048	3.103.0049	3.103.0050	3.103.0051	3.103.0052	3.103.0053	3.103.0054	3.103.0055	3.103.0056	3.103.0057	3.103.0058	3.103.0020	3.103.0009	3.103.0016	3.103.0017	3.103.0019	3.103.0021	3.103.0066	3.103.0067	3.103.0068	3.103.0069	3.749.0200	3.749.0201	3.749.0202	3.749.0203	3.749.0204	3.749.0205	3.749.0206	3.749.0263
	h.p. nozzle .03	h.p. nozzle .40	h.p. nozzle .45	h.p. nozzle .50	h.p. nozzle .55	h.p. nozzle .60	h.p. nozzle .65	h.p. nozzle .70	h.p. nozzle .75	h.p. nozzle .90	h.p. nozzle .35	h.p. nozzle .40	h.p. nozzle .45	h.p. nozzle .50	h.p. nozzle .55	h.p. nozzle .60	h.p. nozzle .65	h.p. nozzle .70	h.p. nozzle .75	h.p. nozzle .80	h.p. nozzle .85	h.p. nozzle .35	h.p. nozzle .40	h.p. nozzle .45	h.p. nozzle .50	h.p. nozzle .55	h.p. nozzle .60	h.p. nozzle .65	h.p. nozzle .70	h.p. nozzle .75	h.p. nozzle .90	rotary noz. max 90° G1/4F-.040	rotary noz. max 90° G1/4F-.045	rotary noz. max 90° G1/4F-.050	rotary noz. max 90° G1/4F-.055	rotary noz. max 90° G1/4F-.060	rotary noz. max 90° G1/4F-.065	rotary noz. max 90° G1/4F-.070	rotary noz. max 90° G1/4F-.090
DANUBIO 1211 LP																																							
DANUBIO 1511 LP		○										S																								○			
ONTARIO 1013 XP								○																															
ONTARIO 2015 XP 380V					○								S													○										○			
ONTARIO 2015 XP 220V				○									S												○											○			
MICHIGAN 1013 XP							S																																
MICHIGAN 2015 XP				S									S												○											○			
COLUMBIA 1211 LP								○																												○			
COLUMBIA 2018 LP 380V						○										S										○										○			
COLUMBIA 2018 LP 220V						○										S									○											○			
VICTORIA 2013 LP 380V	○																																			○			
VICTORIA 2013 LP 220V	○																																			○			
VICTORIA 2018 LP						○										S										○										○			
MAGNUM 2724 LP							○										S																			○			
MCHPV 1211 LP				○									S												○														
MCHPV 2018 LP					○									S												○										○			
MCHPX 1211 LP				○										S											○														
MCHPX 2018 LP					○										S											○										○			
MISSISSIPPI 1310 XP										S												○																	
NPX 1211 XP				○										S											○											○			
NPX 1511 XP			○											S											○														
TEKNA 1211 LP						○									S																					○			
TEKNA 2013 LP	○										S															○										○			
HYPER L 1211 LP		○										S													○														
HYPER L 2018 LP						○										S										○										○			
HYPER T 2018 LP						○										S										○										○			

Rotary nozzle \* G1/4" F with S/S body and seat/nozzle in highly shock-resistant tungsten carbide

\* 1/4" M/M 24 Extension set for rotary nozzle:  
codes 3.749.0320 + 3.749.0004



### **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.

### **What safety vacuum cleaners are?**

Safety vacuuming means that the product is entirely certificated (not the filter only, but the entire machine) in order to comply with the strictest directives and European rules that regulate vacuuming of dust dangerous for health, divided into two groups: hazardous dust and explosives ones. Hazardous dust are also divided in: dust with OEL\* value and cancerogenous dust (asbestos is considered a cancerogenous dust only in Germany and it needs another classification and certification). An example of this dust is asbestos, food or wood preservatives and fertilizers. Explosive dust is for example wood dust, aluminium dust and flour.



**Number of motors:**  
It explains how many motors there are in the vacuum cleaner.

Ignition is independent in order to increase progressively the performances.

The working system (whenever it is more than one) is in parallel, so the air suction increases and the depression is steady whenever the motors are progressively switched on.



**Anti electrostatic current device**

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



**Paper collector filter**

Allows filtering and collection (with a valve) of rough dirt without dirty the tank whenever it is time to replace it.

It is useful for dry waste, also in combination of other thinner filters.



**Cloth filter**

The cloth consistency and its shape allow a simple cleaning phase and the re-use 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 reusable.



**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.

**AUTOMATIC ON/OFF**

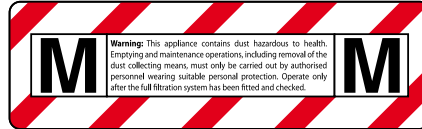


**Power tool socket**

The presence of the socket on the vacuum cleaner allows the connection of any power tools (that generally produces dust).

The vacuum cleaner switches on and off automatically with the use or switching off of the connected power tool. The vacuum switching off function, is delayed to collect remaining dirt in the hoses.

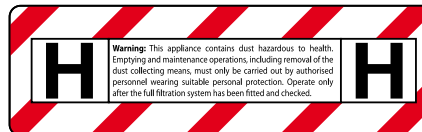
Max productivity, energy saving and easy use.



**M Class certificate for vacuum cleaner**

It is the ability of the vacuum cleaner to keep (through the filtering system and the manufacturing specifications of the vacuum cleaner) the 99,9% of all vacuumed dust with OEL (Occupational Exposure Limit) higher than a 0,1 mg/m3.

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.



**H Class certificate for vacuum cleaner**

It is the ability of the vacuum cleaner to keep (through the filtering system and the manufacturing specifications of the vacuum cleaner) the 99,995% of all vacuumed dust with OEL (Occupational Exposure Limit) higher than a 0,005 mg/m3. Some example of the dusts that can be kept with these vacuum cleaners are working residuals of: asbestos (only in Germany a specific certificate is necessary), lead, bacteria/moulds/germs (they can be found in the hospital renovation), cadmium (accumulators and anti-rust), chromate potassium (matches, pencils, wood impregnate, printer ink, etc.)



### Nomenclature

## Zeus IF - ESM

P = Plastic  
I = S/S

F = Fixed  
R = Tilting

S = Filter shaker

E = Tool socket

H = Dust class H  
L = Dust class L  
M = Dust class M



Sahara    Whisper    Ares IW    Kronos PF    Kronos PF ESM    Kronos IF    Zeus PF    Zeus PF ESM    Zeus IF

Code	Model	Page	Voltage	Motor W	Column depression	Suction air	Tank capacity	Sound pressure	Packaging L x l x H	Packaging weight	Packaging weight	N° pieces for pallet
			V - Hz	W / W max	kPa/mmH <sub>2</sub> O	l/s	l	dB (A)	cm	kg	lbs	N°
8.223.0001	SAHARA	72	220-240V - 50-60Hz	1000 / 1200	26 / 2660	52 l/s	13 l	69 dB (A)	45x39x40	7	15	20
8.214.0511	WHISPER V8E	73	220-240V - 50-60Hz	1000 / 1250	26,5 / 2700	56 l/s	15 l	55 dB (A)	49x39x42	9	19	30
8.214.0501	WHISPER V8	73	220-240V - 50-60Hz	1000 / 1250	26,5 / 2700	56 l/s	15 l	55 dB (A)	49x39x42	9,5	20	30
8.225.0002	ARES IW	74	220-240V - 50-60Hz	1200 / 1400	21,6 / 2200	53 l/s	20 l	75 dB (A)	38x37x81	11	24	15
8.222.0521	KRONOS PF	75	220-240V - 50-60Hz	1200 / 1400	23,6 / 2400	54 l/s	35 l	71 dB (A)	47x47x62	11	24	18
8.222.0522	KRONOS IF	77	220-240V - 50-60Hz	1200 / 1400	23,6 / 2400	54 l/s	35 l	71 dB (A)	47x47x62	11,5	25	18
8.215.0507	ZEUS PF	78	220-240V - 50-60Hz	1200 / 1400	21,6 / 2200	53 l/s	50 l	71 dB (A)	64x54x92	20	44	4
8.216.0501	DOMUS PF	81	220-240V - 50-60Hz	2000 / 2400	22 / 2240	108 l/s	77 l	78 dB (A)	75x60x103	28,5	63	4
8.213.0509	DOMUS PR	82	220-240V - 50-60Hz	2000 / 2400	22 / 2240	108 l/s	77 l	74 dB (A)	75x60x103	31,5	69	4
8.212.0508	TAURUS PR	86	220-240V - 50-60Hz	3000 / 3600	22 / 2240	162 l/s	77 l	76 dB (A)	75x60x103	32,5	71	4





Domus PF    Domus PR / Taurus PR    Domus IF    Domus IR / Taurus IR    Domus IR ESH    Apollo IF    Solaris IF    Costellation IR

Code	Model	Page	Voltage	Motor W	Column depression	Suction air	Tank capacity	Sound pressure	Packaging L x l x H	Packaging weight	Packaging weight	N° pieces for pallet
			V - Hz	W / W max	kPa/mmH <sub>2</sub> O	l/s	l	dB (A)	cm	kg	lbs	N°
8.215.0501	ZEUS IF	80	220-240V - 50-60Hz	1200 / 1400	21,6 / 2200	53 l/s	50 l	71 dB (A)	64x54x92	21,5	47	4
8.216.0502	DOMUS IF	84	220-240V - 50-60Hz	2000 / 2400	22 / 2240	108 l/s	78 l	74 dB (A)	75x60x103	30,5	67	4
8.213.0501	DOMUS IR	83	220-240V - 50-60Hz	2000 / 2400	22 / 2240	108 l/s	78 l	74 dB (A)	75x60x103	33,5	74	4
8.212.0501	TAURUS IR	87	220-240V - 50-60Hz	3000 / 3600	22 / 2240	162 l/s	78 l	76 dB (A)	75x60x103	34,5	76	4
8.220.0501	APOLLO IF	88	230V - 50Hz	1200 / 1400	21,6 / 2200	53 l/s	50 l	71 dB (A)	64x54x92	24	53	4
8.221.0508	SOLARIS IF	89	230V - 50Hz	2200 / 2400	22 / 2240	108 l/s	78 l	74 dB (A)	75x60x103	37	82	4
8.221.0501	COSTELLATION IR	90	230V - 50Hz	2200 / 2400	22 / 2240	108 l/s	78 l	74 dB (A)	75x60x103	37	82	4
8.222.0518	KRONOS PF ESM	76	230V - 50Hz	1200 / 1400	23,6 / 2400	54 l/s	35 l	71 dB (A)	47x47x62	11	24	18
8.215.0525	ZEUS PF ESM	79	230V - 50Hz	1200 / 1400	21,6 / 2200	53 l/s	50 l	71 dB (A)	64x54x92	20	44	4
8.213.0514	DOMUS IR ESH	85	230V - 50Hz	2000 / 2400	22 / 2240	108 l/s	78 l	74 dB (A)	75x60x103	33,5	74	4



### Sahara



Ergonomic handle



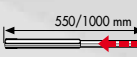




Accessory holder

Shock and overturn proof design

**Silenced**  
**69 dB (A)**



#### Standard Accessories:

- 5.209.0077 ø 35 - 2,5 m 
- 3.753.0077 ø 35 
- 3.753.0103 ø 35 
- 3.754.0005 ø 35 
- 3.754.0015 ø 35 
- 3.754.0016 ø 35 INOX 
- 3.754.0004 ø 35 



- Silenced single stage motor
- Paper and cartridge filter
- Shock and overturn proof design



- Integrated accessory holder



- Handle with double function: cover blocking and releasing, carrying handle.

#### SAHARA

Code	8.223.0001
voltage	220-240V ~ 50-60Hz
N° / motor type	1x /dry cup silenced
power (max)	1000 (1200) W
motor cooling	by-pass
column depression	26 kPa/2660 mmH2O
air suction	52 l/s
total volume / dust	13 l. / 8 l.
drain type	manual
filter protection	Internal deflector
electrical cable lenght	10 m
dimensions/machine weight	43x36x38 cm / 4,5 kg



## Whisper

Full collector filter indicator.

Accessory holder



Overtum proof

Triple filtering system

**Ultra silenced**

**55 dB (A)**



### Standard Accessories:

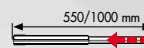
5.209.0077 ø 35 - 2,5 m



3.753.0077 ø 35



3.753.0103 ø 35



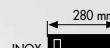
3.754.0005 ø 35



3.754.0015 ø 35



3.754.0016 ø 35



3.754.0004 ø 35



- Silenced single stage motor (high efficiency).
- Exhaust air filter.



- Pedal power switch.
- Integrated accessory holder



- Quick power cable replacing system only model Whisper V8

### WHISPER V8E

### WHISPER V8

Code	8.214.0511	8.214.0501
voltage	220-240V ~ 50-60Hz	220-240V ~ 50-60Hz
N° / motor type	1x/dry cup silenced	1x/dry cup silenced
power (max)	1000 (1250) W	1000 (1250) W
motor cooling	by-pass	by-pass
column depression	26,5 kPa/2700 mmH2O	26,5 kPa/2700 mmH2O
air suction	56 l/s	56 l/s
Total volume / dust	15 l. / 10 l.	15 l. / 10 l.
drain type	manual	manual
filter protection	Internal deflector	Internal deflector
electrical cable lenght	8 m	15 m - IEC fast change
dimensions/machine weight	47x34x36 cm / 5 kg	47x34x36 cm / 5,5 kg

### Ares IW



S/S tank

Shock proof trolley.



#### Standard Accessories:

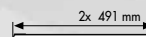
5.209.0077 ø 35 - 2,5 m



3.753.0077 ø 35



3.753.0009 ø 35



3.754.0005 ø 35



3.754.0015 ø 35



3.754.0004 ø 35



3.754.0168 ø 35



3.754.0169



3.754.0170



- Silenced two stage Motor.
- Suction system with by-pass cooling.



- Shock proof trolley.
- Accessory holder



- Quick connection



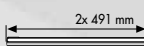





#### ARES IW

Code	8.225.0002
voltage	220-240V ~ 50-60Hz
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	21,6 kPa/2200 mmH2O
air suction	53 l/s
total volume/dust/liquid	20 l. / 14 l. / 16 l.
motor protection	floating valve
anti electrostatic device	standard
electrical cable lenght	7 m
dimensions/machine weight	34,5x34,5x66 cm / 8 kg

## Kronos PF



### Standard Accessories:

- 5.209.0077 ø 35 - 2,5 m 
- 3.753.0077 ø 35 
- 3.753.0009 ø 35 
- 3.754.0005 ø 35 
- 3.754.0015 ø 35 
- 3.754.0168 ø 35 
- 3.754.0169 
- 3.754.0170 



- Silenced two stage Motor.
- Suction system with by-pass cooling.
- Liquid float valve.



- Shock proof trolley.
- Accessory holder



- Washable filter.

### KRONOS PF

Code	8.222.0521
voltage	220-240V ~ 50-60Hz
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	23,6 kPa/2400 mmH2O
air suction	54 l/s
total volume/dust/liquid	35 l. / 18 l. / 20 l.
motor protection	floating valve
emptying system	manual
electrical cable lenght	7 m
dimensions/machine weight	45x45x60 cm / 9 kg



### Kronos PF-ESM



**AUTOMATIC ON/OFF**



#### Standard Accessories:

5.209.0127 ø 40 - 3 m



- Liquid float valve.
- Anti electrostatic current device



- Shock proof trolley.
- Accessory holder





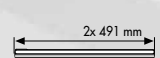





#### KRONOS PF ESM

Code	8.222.0518
voltage	230V ~ 50Hz
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	23,6 kPa/2400 mmH2O
air suction	54 l/s
total volume/dust/liquid	35 l. / 18 l. / 20 l.
dust class	M
low flow indicator	standard
electrical cable lenght	7 m
dimensions/machine weight	45x45x60 cm / 9 kg

Kronos IF



Standard Accessories:

- 5.209.0077  $\varnothing 35$  - 2,5 m 
- 3.753.0077  $\varnothing 35$  
- 3.753.0009  $\varnothing 35$  
- 3.754.0005  $\varnothing 35$  
- 3.754.0015  $\varnothing 35$  
- 3.754.0168  $\varnothing 35$  
- 3.754.0169 
- 3.754.0170 



- Silenced two stage Motor.
- Suction system with by-pass cooling.
- Liquid float valve.



- Shock proof trolley.
- Accessory holder



- Professional closing hook

KRONOS IF

Code	8.222.0522
voltage	220-240V ~ 50-60Hz
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	23,6 kPa/2400 mmH2O
air suction	54 l/s
total volume/dust/liquid	35 l. / 18 l. / 20 l.
motor protection	floating valve
anti electrostatic device	standard
electrical cable lenght	7 m
dimensions/machine weight	45x45x60 cm / 9,5 kg

### Zeus PF



Quick connection

Shock proof tank (PP)

Shock proof trolley.

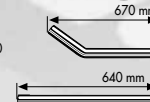


#### Standard Accessories:

5.209.0021 ø 40 - 2,5 m



3.753.0104 ø 40



3.754.0048 ø 40



3.754.0049 ø 40



3.754.0185 ø 40



3.754.0169



3.754.0170



- Silenced two stage Motor.
- Suction system with by-pass cooling.
- Liquid float valve.



- Accessory holder



- Shock proof trolley.
- Drain hose system

#### ZEUS PF

Code	8.215.0507
voltage	220-240V ~ 50-60Hz
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	21,6 kPa/2200 mmH2O
air suction	53 l/s
total volume/dust/liquid	50 l. / 21 l. / 35 l.
motor protection	floating valve
emptying system	hose Ø 28 mm
electrical cable length	10 m
dimensions/machine weight	62x51x85 cm / 15 kg



Zeus PF ESM



AUTOMATIC ON/OFF



Standard Accessories:

5.209.0127 ø 40 - 3 m



- Silenced two stage Motor.
- Suction system with by-pass cooling.
- Liquid float valve.
- Anti electrostatic current device



- Shock proof trolley
- Accessory holder



- Drain hose system



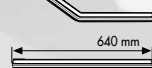





ZEUS PF ESM

Code	8.215.0525
voltage	230V ~ 50Hz
N° / motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	21,6 kPa/2200 mmH2O
air suction	53 l/s
total volume/dust/liquid	50 l. / 21 l. / 35 l.
dust class	M
low flow indicator	standard
electrical cable length	10 m
dimensions/machine weight	62x51x85 cm / 15 kg

### Zeus IF



#### Standard Accessories:

- 5.209.0021 ø 40 - 2,5 m 
- 3.753.0104 ø 40 
-  640 mm
- 3.754.0048 ø 40 
- 3.754.0049 ø 40 
- 3.754.0185 ø 40 
- 3.754.0169 
- 3.754.0170 



- Silenced two stage Motor.
- Suction system with by-pass cooling.
- Liquid float valve.
- Anti electrostatic current device



- Shock proof trolley
- Accessory holder



- Drain hose system

#### ZEUS IF

Code	8.215.0501
voltage	220-240V ~ 50-60Hz
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	21,6 kPa/2200 mmH2O
air suction	53 l/s
total volume/dust/liquid	50 l. / 21 l. / 35 l.
motor protection	floating valve
emptying system	hose Ø 28 mm
electrical cable lenght	10 m
dimensions/machine weight	62x51x85 cm / 16,5 kg

Domus PF



Standard Accessories:

- 5.209.0021 ø 40 - 2,5 m
- 3.753.0104 ø 40
- 3.754.0048 ø 40
- 3.754.0049 ø 40
- 3.754.0083 ø 40
- 3.754.0084
- 3.754.0085



- 2 silenced two stage Motor.
- Suction system with by-pass cooling.
- Liquid float valve.
- Anti electrostatic current device



- Shock proof trolley
- Accessory holder



- Drain hose system

DOMUS PF

Code	8.216.0501
voltage	220-240V ~ 50-60Hz
N°/motor type	2x/silenced two stage motor
power (max)	2000 (2400) W
motor cooling	by-pass
column depression	22 kPa/2240 mmH2O
air suction	108 l/s
total volume/dust/liquid	77 l. / 34 l. / 47 l.
motor protection	floating valve
emptying system	hose Ø 28 mm
electrical cable lenght	10 m
dimensions/machine weight	62x51x96 cm / 21 kg

### Domus PR



Quick connection

Professional closing hook


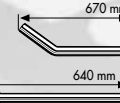





Shock proof tank (PP)

Shock proof trolley.

Tank release



#### Standard Accessories:

- 5.209.0021 ø 40 - 2,5 m 
- 3.753.0104 ø 40 
- 3.754.0048 ø 40 
- 3.754.0049 ø 40 
- 3.754.0083 ø 40 
- 3.754.0084 
- 3.754.0085 



- Removable tank



- Shock proof trolley
- Tilting tank



- Easy standing head (during filter cleaning)

#### DOMUS PR

Code	8.213.0509
voltage	220-240V ~ 50-60Hz
N°/motor type	2x/silenced two stage motor
power (max)	2000 (2400) W
motor cooling	by-pass
column depression	22 kPa/2240 mmH2O
air suction	108 l/s
total volume/dust/liquid	77 l. / 34 l. / 47 l.
motor protection	floating valve
emptying system	Tilting tank
electrical cable lenght	10 m
dimensions/machine weight	62x51x99 cm / 24 kg



## Domus IR



### Standard Accessories:

- 5.209.0021  $\varnothing$  40 - 2,5 m
- 3.753.0104  $\varnothing$  40
- 3.754.0048  $\varnothing$  40
- 3.754.0049  $\varnothing$  40
- 3.754.0083  $\varnothing$  40
- 3.754.0084
- 3.754.0085



- Removable tank
- Anti electrostatic current device



- Shock proof trolley
- Tilting tank



- Easy standing head (during filter cleaning)


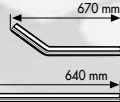





### DOMUS IR

Code	8.213.0501
voltage	220-240V ~ 50-60Hz
N°/motor type	2x/silenced two stage motor
power (max)	2000 (2400) W
motor cooling	by-pass
column depression	22 kPa/2240 mmH2O
air suction	108 l/s
total volume/dust/liquid	78 l. / 35 l. / 48 l.
motor protection	floating valve
emptying system	Tilting tank
electrical cable lenght	10 m
dimensions/machine weight	62x51x99 cm / 26 kg

### Domus IF



#### Standard Accessories:

- 5.209.0021 ø 40 · 2,5 m 
- 3.753.0104 ø 40 
- 3.754.0048 ø 40 
- 3.754.0049 ø 40 
- 3.754.0083 ø 40 
- 3.754.0084 
- 3.754.0085 



- Silenced two stage Motor.
- Easy standing head (during filter cleaning)



- Anti electrostatic current device

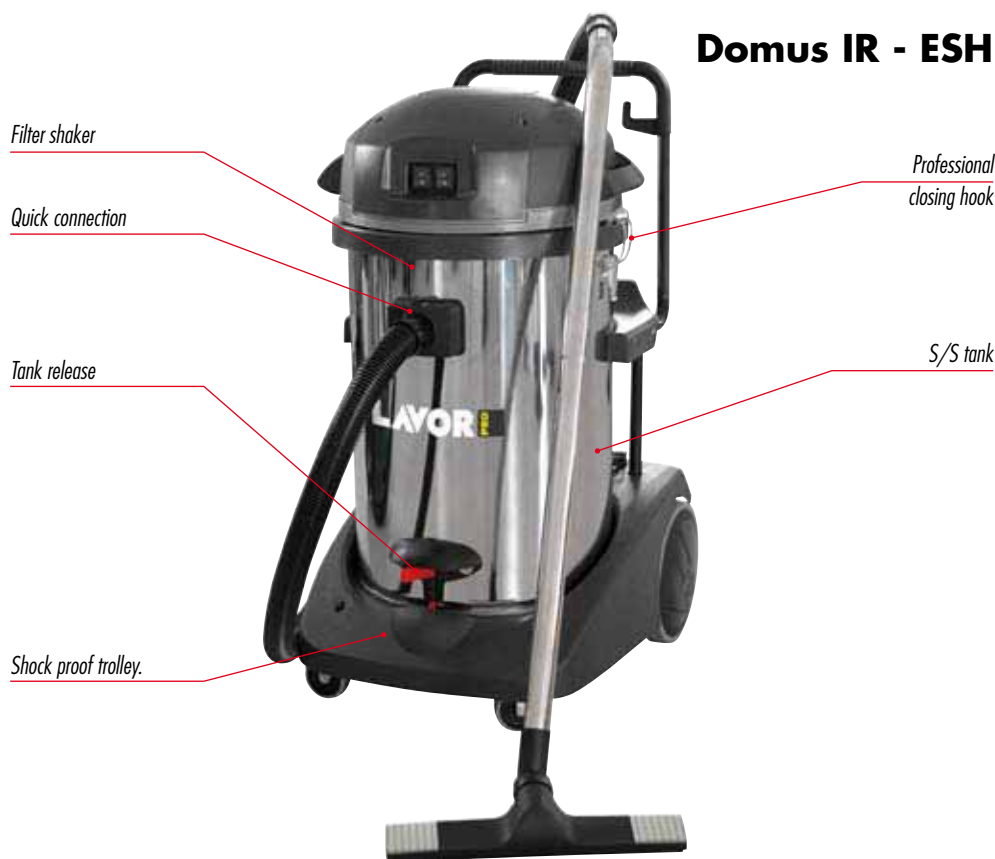


- Shock proof trolley.
- Drain hose system

#### DOMUS IF

Code	8.216.0502
voltage	220-240V ~ 50-60Hz
N°/motor type	2x/silenced two stage motor
power (max)	2000 (2400) W
motor cooling	by-pass
column depression	22 kPa/2240 mmH2O
air suction	108 l/s
total volume/dust/liquid	78 l. / 35 l. / 48 l.
motor protection	floating valve
emptying system	hose Ø 28 mm
electrical cable lenght	10 m
dimensions/machine weight	62x51x96 cm / 23 kg

Domus IR - ESH



AUTOMATIC ON/OFF



Standard Accessories:

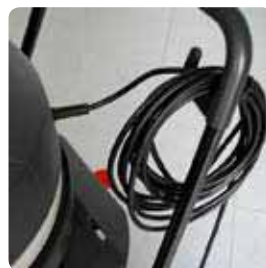
5.209.0127 ø 40 - 3 m



- Liquid float valve.
- Removable tank
- Anti electrostatic current device



- Tilting tank
- Easy standing head (during filter cleaning)



- Cable holder


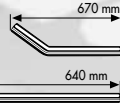





DOMUS IR ESH

Code	8.213.0514
voltage	230V ~ 50Hz
N°/motor type	2x/silenced two stage motor
power (max)	2000 (2400) W
motor cooling	by-pass
column depression	22 kPa/2240 mmH2O
air suction	108 l/s
total volume/dust/liquid	78 l. / 35 l. / 48 l.
dust class	H
low flow indicator	standard
electrical cable length	10 m
dimensions/machine weight	62x51x99 cm / 26 kg

### Taurus PR



#### Standard Accessories:

- 5.209.0021 ø 40 - 2,5 m 
- 3.753.0104 ø 40 
- 3.754.0048 ø 40 
- 3.754.0049 ø 40 
- 3.754.0083 ø 40 
- 3.754.0084 
- 3.754.0085 



#### TAURUS PR


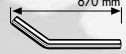











Code	8.212.0508
voltage	220-240V ~ 50-60Hz
N°/motor type	3x/silenced two stage motor
power (max)	3000 (3600) W
motor cooling	by-pass
column depression	22 kPa/2240 mmH2O
air suction	162 l/s
total volume/dust/liquid	77 l. / 34 l. / 47 l.
motor protection	floating valve
emptying system	Tilting tank
electrical cable lenght	10 m
dimensions/machine weight	62x51x99 cm / 25 kg



Taurus IR



Standard Accessories:

- 5.209.0021 ø 40 - 2,5 m 
- 3.753.0104 ø 40 
- 670 mm 
- 640 mm 
- 3.754.0048 ø 40 
- 250 mm 
- 3.754.0049 ø 40 
- 3.754.0083 ø 40 
- 400 mm 
- 3.754.0084 
- 400 mm 
- 3.754.0085 
- 400 mm 



- 3 silenced two stage Motor.
- Removable tank.



- Shock proof trolley
- Tilting tank



- Easy standing head (during filter cleaning)
- Anti electrostatic current device

TAURUS IR

Code	8.212.0501
voltage	220-240V ~ 50-60Hz
N°/motor type	3x/silenced two stage motor
power (max)	3000 (3600) W
motor cooling	by-pass
column depression	22 kPa/2240 mmH2O
air suction	162 l/s
total volume/dust/liquid	78 l. / 35 l. / 48 l.
motor protection	floating valve
emptying system	Tilting tank
electrical cable lenght	10 m
dimensions/machine weight	62x51x99 cm / 27 kg

## Apollo IF

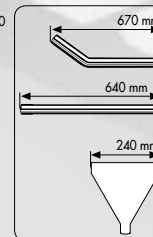


### Standard Accessories:

6.205.0041 ø 40 - 2,5 m



6.205.0042 ø 40



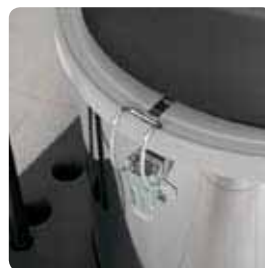
5.209.0051 ø 40



- Easy standing head (during filter cleaning)
- Liquid float valve.



- Drain hose system



- Professional closing hook
- Shock proof trolley.
- Suction system with by-pass cooling.

### APOLLO IF

Code	8.220.0501
voltage /electrical cable lenght	230V ~ 50Hz / 10 m
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
column depression	21,6 kPa/2200 mmH2O
air suction	53 l/s
total volume/dust/liquid	50 l. / 21 l. / 35 l.
detergent pump	1x 32W - 0,8 l/min
detergent pump pressure	3,5 bar
detergent tank	11 l.
emptying system	hose Ø 28 mm
dimensions/machine weight	62x51x85 cm / 19 kg

Solaris IF



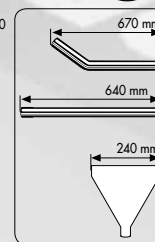
Vacuum cleaners

Standard Accessories:

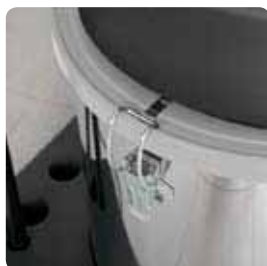
6.205.0041 ø 40 - 2,5 m



6.205.0042 ø 40



5.209.0051 ø 40



- Professional closing hook
- Suction system with by-pass cooling.
- Liquid float valve.



- Drain hose system.
- Easy standing head (during filter cleaning)



- Main switch, 1 - 2 Vacuum motors switches, 1 - 2 Detergent solutions pump switches

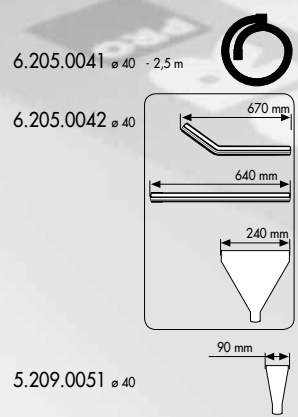
SOLARIS IF

Code	8.221.0508
voltage /electrical cable lenght	230V ~ 50Hz / 10 m
N°/motor type	2x/silenced two stage motor
power (max)	2200 (2400) W
column depression	22 kPa/2240 mmH2O
air suction	108 l/s
total volume/dust/liquid	78 l. / 35 l. / 48 l.
detergent pump	2x 48w - 0,7-1,2 l/min
detergent pump pressure	5 bar
detergent tank	25 l.
emptying system	hose Ø 28mm
dimensions/machine weight	62x51x96 cm / 29,5 kg

### Costellation IR



#### Standard Accessories:





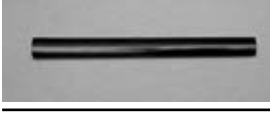











#### COSTELLATION IR

Code	8.221.0501
voltage /electrical cable lenght	230V ~ 50Hz / 10 m
N°/motor type	2x/silenced two stage motor
power (max)	2200 (2400) W
column depression	22 kPa/2240 mmH2O
air suction	108 l/s
total volume/dust/liquid	78 l. / 35 l. / 48 l.
detergent pump	2 x 48w - 0,7-1,2 l/min
detergent pump pressure	5 bar
detergent tank	11 l.
emptying system	Tilting tank
dimensions/machine weight	62x51x99 cm / 29,5 kg



## Accessories

			Sahara	Whisper V8 E	Whisper V8	Ares IW	Kronos PF	Kronos IF	Zeus PF	Zeus IF	Domus PF	Domus PR	Domus IF	Domus IR	Taurus PR	Taurus IR	Apollo IF	Solaris IF	Constellation IR	Kronos PF ESM	Zeus PF ESM	Domus IR ESH
	5.209.0021	Ø 40 - 2,5m complete flexible hose							S	S	S	S	S	S	S	S	O	O	O			
	5.209.0077	Ø 35 - 2,5m. complete flexible hose	S	S	S	S	S	S														
	5.209.0127	Ø 40 - 3,0m. complete flexible hose																			S	S
	3.753.0104	Ø 40 - chromium-plated steel curve and extension pipe kit							S	S	S	S	S	S	S	S						
	3.753.0019	Ø 40 - chromium-plated steel curve (with 3.753.0020 only)							O	O	O	O	O	O	O	O	O	O	O			
	3.753.0020	Ø 40 - 640 mm chromium-plated extension pipe (with 3.753.0019 only)							O	O	O	O	O	O	O	O	O	O	O			
	3.753.0009	Ø 35 - 491 mm chromium-plated extension pipe	O	O	O	S	S	S														
	3.753.0039	Ø 45 - 0,5 m. pvc extension pipe							O	O	O	O	O	O	O	O	O	O	O			
	3.753.0084	Ø 35 - 1m. PVC extensible	O	O	O	O	O	O														
	3.753.0103	Ø 35 - 1m. chromium-plated extensible	S	S	S	O	O	O														
	3.754.0048	Ø 40 - flat lance 250 mm							S	S	S	S	S	S	S	S	O	O	O			
	3.754.0005	Ø 35 - flat lance 200mm	S	S	S	S	S	S														
	3.754.0049	Ø 40 - round brush							S	S	S	S	S	S	S	S	O	O	O			
	3.754.0015	Ø 35 - round brush	S	S	S	S	S	S														
	3.754.0083	Ø 40 - 400mm holder accessories							O	O	S	S	S	S	S	S	O	O	O			
	3.754.0168	Ø 35 - 300mm holder accessories	O	O	O	S	S	S														
	3.754.0185	Ø 40 - 300mm holder accessories							S	S												
	3.754.0084	floor brush 400mm							O	O	S	S	S	S	S	S	O	O	O			
	3.754.0169	floor brush 300mm	O	O	O	S	S	S	S	S												
	3.754.0085	wet tool 400mm							O	O	S	S	S	S	S	S	O	O	O			
	3.754.0170	wet tool 300mm				S	S	S	S	S												
	3.754.0086	carpet tool 400mm							O	O	O	O	O	O	O	O	O	O	O			
	3.754.0171	carpet tool 300mm	O	O	O	O	O	O	O	O												
	3.754.0046	Ø 40 coupling for flex hose (accessory side)							O	O	O	O	O	O	O	O	O	O	O			
	3.752.0028	Ø 35 coupling for flex hose (accessory side)	O	O	O	O	O	O														
	3.754.0208	Ø 40 coupling for flex hose (accessory side)																			O	O
	3.754.0047	Ø 40 coupling for flex hose (tank side)							O	O	O	O	O	O	O	O	O	O	O			
	3.752.0118	Ø 35 coupling for flex hose (tank side)	O	O	O	O	O	O														
	3.754.0209	Ø 40 coupling for flex hose (tank side)																			O	O











S = standard equipment O = optional

### Accessories

			Sahara	Whisper V8 E	Whisper V8	Ares IW	Kronos PF	Kronos IF	Zeus PF	Zeus IF	Domus PF	Domus PR	Domus IF	Domus IR	Taurus PR	Taurus IR	Apollo IF	Solaris IF	Constellation IR	Kronos PF ESM	Zeus PF ESM	Domus IR ESH	
	3.753.0038	Ø 40 - 30 m complete flexible hose							○	○	○	○	○	○	○	○	○	○					
	3.753.0063	Ø 35 - 30 m complete flexible hose	○	○	○	○	○	○															
	3.753.0050	Ø 40 - 30 m complete flexible hose																			○	○	○
	0.110.0062	Ø 40 - complete fixed front										○		○	○	○			○				
	0.911.0210	front squeegee strip with hole										○		○	○	○			○				
	0.911.0211	rear squeegee strip without hole										○		○	○	○			○				
	6.205.0041	Ø 40-2,5 m complete flexible hose																S	S	S			
	6.205.0044	Ø 40-5,0 m complete flexible hose																	○	○	○		
	6.205.0045	Ø 40-10 m complete flexible hose																	○	○	○		
	6.205.0042	complete carpet accessory																	S	S	S		
	5.209.0051	arm-chair 90 mm																	S	S	S		
	5.209.0050	arm-chair 240 mm																	S	S	S		
	3.753.0077	Ø 35 - curve with unload valve	S	S	S	S	S	S															
	3.754.0016	Ø 35 - 280 mm combined inox brush floor/carpet	S	S	S	○	○	○															
	3.754.0004	Ø 35 - 140 mm nozzle	S	S	S	S	○	○															
	3.754.0080	Ø 35 - 140 mm Turbo Brush type 1	○	○	○	○	○	○															
	3.754.0081	Ø 35 - 270 mm Turbo Brush type 2	○	○	○	○	○	○															
	0.110.0021	Ø 50 - PVC spacer for plastic bag									○	○	○	○	○	○		○	○				
	0.110.0020	anti foam device							○	○	○	○	○	○	○	○	○	○	○				

S = standard equipment ○ = optional

## Accessories

			Sahara	Whisper V8 E	Whisper V8	Ares IW	Kronos PF	Kronos IF	Zeus PF	Zeus IF	Domus PF	Domus PR	Domus IF	Domus IR	Taurus PR	Taurus IR	Apollo IF	Solaris IF	Constellation IR	Kronos PF ESM	Zeus PF ESM	Domus IR ESH
	5.509.0039	cloth filter									S	S	S	S	S	S		S	O			
	5.209.0052	cloth filter							S	S							S					
	5.212.0009	cloth filter				O																
	5.209.0105	cloth filter					O	O														
	5.509.1405	cloth filter for fine dust									O	O	O	O	O	O		O	O			
	3.752.0182	nylon filter									O	O	O	O	O	O		O	O			
	3.752.0155	nylon filter					O	O	O	O												
	5.212.0022	paper collector filters set (10pcs)				O	O	O	O	O	O	O	O	O	O	O	O	O	O			
	5.212.0023	paper collector filters set (10pcs)	O	O	O																	
	5.212.0048	paper collector filters special dust (10pcs)																		O	O	O
	3.752.0041	cartridge filter 7 µm				O	O	O	O	O							O					
	3.752.0093	cartridge filter 7 µm		O	S																	
	3.752.0085	cartridge filter 7 µm	S																			
	3.752.0092	Hepa filter 0,3 µm		O	O																	
	3.752.0086	Hepa filter 0,3 µm	O																			
	3.752.0046	Hepa filter 0,3 µm				O	O	O	O	O							O			S	S	
	3.752.0194	Hepa filter 0,3 µm									O	O	O	O	O	O	O	O	O			S
	5.212.0010	Hepa filter with kit of assembly				O	O	O	O	O							O					
	5.212.0034	Hepa filter with kit of assembly									O	O	O	O	O	O	O	O				
	5.212.0020	Washable multipurpose filter with kit				O	O	O	O	O							O					
	5.212.0021	Washable multipurpose filter with kit									O	O	O	O	O	O	O	O	S			
	3.752.0073	Washable multipurpose filter - 5 µm				S	S	S	O	O							O					
	3.752.0082	Washable multipurpose filter - 5 µm									O	O	O	O	O	O	O	O	S			
	6.205.0011	Foam filter					O	O	S	S							S					
	4.215.0086	Foam filter	S	O																		

S = standard equipment O = optional

## Multipurpose washable filters

Filters used until today could be used for dry vacuum only, and needed to be removed for wet vacuuming (after tank cleaning), and vice versa. On the opposite, with the multipurpose filter you can vacuum dry and wet at the same time, without taking the filter off or cleaning the tank. It is enough to empty the tank and rinse the filter at the end, without changing it.

### Version

110÷120V~50÷60Hz

### Nomenclature

## Zeus IF

P = Plastic

I = S/S

F = Fixed

R = Tilting



Whisper

Ares IW

Kronos IF

Zeus IF

Domus IF

Domus IR

Code	Model	Page	Voltage	Motor W	Column depression	Suction air	Tank capacity	Sound pressure	Packaging L x l x H	Packaging weight	Packaging weight	N° pieces for pallet
			V - Hz	W / W max	kPa/mmH <sub>2</sub> O	l/s	l	dB (A)	cm	kg	lbs	N°
8.214.0514	WHISPER V8E	96	110-120V - 50-60Hz	1000 / 1250	26,5 / 2700	56 l/s	15 l	55 dB (A)	49x39x42	9	19	30
8.225.0009	ARES IW	97	110-120V - 50-60Hz	1200 / 1400	21,6 / 2200	53 l/s	20 l	75 dB (A)	38x37x81	11	24	15
8.222.0527	KRONOS IF	98	110-120V - 50-60Hz	1200 / 1400	23,6 / 2400	54 l/s	35 l	71 dB (A)	47x47x62	11,5	25	18
8.215.0506	ZEUS IF	99	110-120V - 50-60Hz	1200 / 1400	21,6 / 2200	53 l/s	50 l	71 dB (A)	64x54x92	21,5	47	4
8.216.0526	DOMUS IF	100	110-120V - 50-60Hz	2000 / 2400	22 / 2240	108 l/s	78 l	74 dB (A)	75x60x103	30,5	67	4
8.213.0516	DOMUS IR	101	110-120V - 50-60Hz	2000 / 2400	22 / 2240	108 l/s	78 l	74 dB (A)	75x60x103	33,5	74	4







### Number of motors:

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

Ignition is independent in order to increase progressively the performances.

The working system (whenever it is more than one) is in parallel, so the air suction increases and the depression is steady whenever the motors are progressively switched on.

### AUTOMATIC ON/OFF



### Power tool socket

The presence of the socket on the vacuum cleaner allows the connection of any power tools (that generally produces dust).

The vacuum cleaner switches on and off automatically with the use or switching off of the connected power tool. The vacuum switching off function, is delayed to collect remaining dirt in the hoses.

Max productivity, energy saving and easy use.



### 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 reusable.



### 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.



\***OEL** (Occupational Exposure Limit) is a value (expressed in mg/m<sup>3</sup>) that specifies the max concentration of dust in the working area that doesn't cause injuries to people. The lower the OEL value, the more dangerous the dust is.

**120 Volts**

### Whisper

Full collector filter indicator.

Accessory holder



Overturn proof

Triple filtering system

**Ultra silenced**  
**55 dB (A)**



CARTDRIGE

#### Standard Accessories:

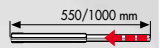
5.209.0077 ø 35 - 2,5 m



3.753.0077 ø 35



3.753.0103 ø 35



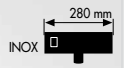
3.754.0005 ø 35



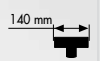
3.754.0015 ø 35



3.754.0016 ø 35



3.754.0004 ø 35



- Silenced single stage motor (high efficiency).
- Exhaust air filter.



- Pedal power switch.
- Integrated accessory holder



- Full collector filter indicator.

#### WHISPER V8E

Code	8.214.0514
voltage	110-120V ~ 50-60Hz
N° / motor type	1x/dry cup silenced
power (max)	1000 (1250) W
motor cooling	by-pass
column depression	26,5 kPa/2700 mmH2O
air suction	56 l/s
Total volume / dust	15 l. / 10 l.
drain type	manual
filter protection	Internal deflector
electrical cable lenght	8 m
dimensions/machine weight	47x34x36 cm / 5 kg

120 Volts

Ares IW



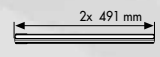








S/S tank

Shock proof trolley.



Standard Accessories:

- 5.209.0077 ø 35 - 2,5 m 
- 3.753.0077 ø 35 
- 3.753.0009 ø 35 
- 3.754.0005 ø 35 
- 3.754.0015 ø 35 
- 3.754.0004 ø 35 
- 3.754.0168 ø 35 
- 3.754.0169 
- 3.754.0170 



- Silenced two stage Motor.
- Suction system with by-pass cooling.



- Shock proof trolley.
- Accessory holder



- Quick connection

ARES IW

Code	8.225.0009
voltage	110-120V ~ 50-60Hz
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	21,6 kPa/2200 mmH2O
air suction	53 l/s
total volume/dust/liquid	20 l. / 14 l. / 16 l.
motor protection	floating valve
anti electrostatic device	standard
electrical cable lenght	7 m
dimensions/machine weight	34,5x34,5x66 cm / 8 kg

**1200**  
Volts

### Kronos IF



#### Standard Accessories:

- 5.209.0077 ø 35 - 2,5 m
- 3.753.0077 ø 35
- 3.753.0009 ø 35
- 3.754.0005 ø 35
- 3.754.0015 ø 35
- 3.754.0168 ø 35
- 3.754.0169
- 3.754.0170

- Silenced two stage Motor.
- Suction system with by-pass cooling.
- Liquid float valve.

- Shock proof trolley.
- Accessory holder

- Professional closing hook

KRONOS IF	
Code	8.222.0527
voltage	110-120V ~ 50-60Hz
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	23,6 kPa/2400 mmH2O
air suction	54 l/s
total volume/dust/liquid	35 l. / 18 l. / 20 l.
motor protection	floating valve
anti electrostatic device	standard
electrical cable lenght	7 m
dimensions/machine weight	45x45x60 cm / 9,5 kg



120 Volts

Zeus IF

Quick connection

Professional closing hook

S/S tank

Shock proof trolley.



Standard Accessories:

- 5.209.0021  $\varnothing$  40 - 2,5 m
- 3.753.0104  $\varnothing$  40
- 3.754.0048  $\varnothing$  40
- 3.754.0049  $\varnothing$  40
- 3.754.0185  $\varnothing$  40
- 3.754.0169
- 3.754.0170



- Silenced two stage Motor.
- Suction system with by-pass cooling.
- Liquid float valve.
- Anti electrostatic current device



- Shock proof trolley
- Accessory holder



- Drain hose system

ZEUS IF

Code	8.215.0506
voltage	110-120V ~ 50-60Hz
N°/motor type	1x/silenced two stage motor
power (max)	1200 (1400) W
motor cooling	by-pass
column depression	21,6 kPa/2200 mmH2O
air suction	53 l/s
total volume/dust/liquid	50 l. / 21 l. / 35 l.
motor protection	floating valve
emptying system	hose $\varnothing$ 28 mm
electrical cable lenght	10 m
dimensions/machine weight	62x51x85 cm / 16,5 kg

**120**  
Volts

### Domus IF



Quick connection

Professional closing hook

S/S tank

Shock proof trolley.

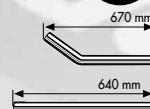


#### Standard Accessories:

5.209.0021 ø 40 · 2,5 m



3.753.0104 ø 40



3.754.0048 ø 40



3.754.0049 ø 40



3.754.0083 ø 40



3.754.0084



3.754.0085



- Silenced two stage Motor.
- Easy standing head (during filter cleaning)



- Anti electrostatic current device



- Shock proof trolley.
- Drain hose system

#### DOMUS IF

Code	8.216.0526
voltage	110-120V ~ 50-60Hz
N°/motor type	2x/silenced two stage motor
power (max)	2000 (2400) W
motor cooling	by-pass
column depression	22 kPa/2240 mmH2O
air suction	108 l/s
total volume/dust/liquid	78 l. / 35 l. / 48 l.
motor protection	floating valve
emptying system	hose Ø 28 mm
electrical cable length	10 m
dimensions/machine weight	62x51x96 cm / 23 kg

120 Volts

Domus IR



Vacuum cleaners

Standard Accessories:

- 5.209.0021 ø 40 - 2,5 m
- 3.753.0104 ø 40
- 3.754.0048 ø 40
- 3.754.0049 ø 40
- 3.754.0083 ø 40
- 3.754.0084
- 3.754.0085



- Removable tank
- Anti electrostatic current device



- Shock proof trolley
- Tilting tank



- Easy standing head (during filter cleaning)

DOMUS IR

Code	8.213.0516
voltage	110-120V ~ 50-60Hz
N°/motor type	2x/silenced two stage motor
power (max)	2000 (2400) W
motor cooling	by-pass
column depression	22 kPa/2240 mmH2O
air suction	108 l/s
total volume/dust/liquid	78 l. / 35 l. / 48 l.
motor protection	floating valve
emptying system	Tilting tank
electrical cable lenght	10 m
dimensions/machine weight	62x51x99 cm / 26 kg

**When working conditions and dirt type are extreme, dangerous or difficult to manage, then the VLP range is the solution to all the problems. Innovative filtering systems, liquid waste management, toughness construction and (for some models) the possibility to work with dangerous dusts, set new standards in the industrial sector regarding extensive working expectation, productivity, filtering capacity and efficiency.**

### **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 depression is necessary?**

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

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



### **What are safety vacuums?**

A safety vacuum cleaner is intended a machine entirely certified (so not only the filter, but the whole machine) to comply hard EU directives and norms regulating vacuuming hazardous dust split in two big groups as dangerous dust and explosive dust.

Dangerous dust is split again in: dust with OEL\* value and cancerogenic dust (only in Germany asbestos is considered a cancerogenic dust for which a further classification and certificate is necessary).

Some examples of these dust are asbestos, food and wood preservatives and fertilizer.

Explosive dust are for examples wood dust, aluminium dust and flour.





### Cyclonic vacuuming system (international copyright)

Dust is getting in tangentially inside the filtration chamber and starts turning around fast due to centrifugal and gravity force, the dirt falls down screwing into the container without reaching the centre.

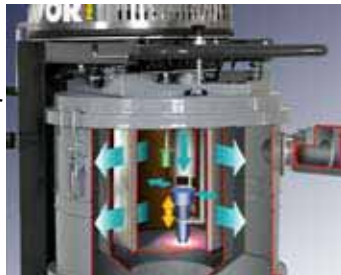
In order to delay the contact between the dust with the filter, there is a cylindrical protection (that covers it completely) with holes on the top. In the inner completely open bottom area, the air speed coming up to the filter is very low.

The proof of the effectiveness of this system is the remaining cake in the tank completely flat: there is no sensible vacuuming at the centre while in other machines an inverted cone cake shaped is produced due to dust coming back up to the filter sucking it quickly. Incredible extensive working sessions still with thin dust without cleaning the filter.



### 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.

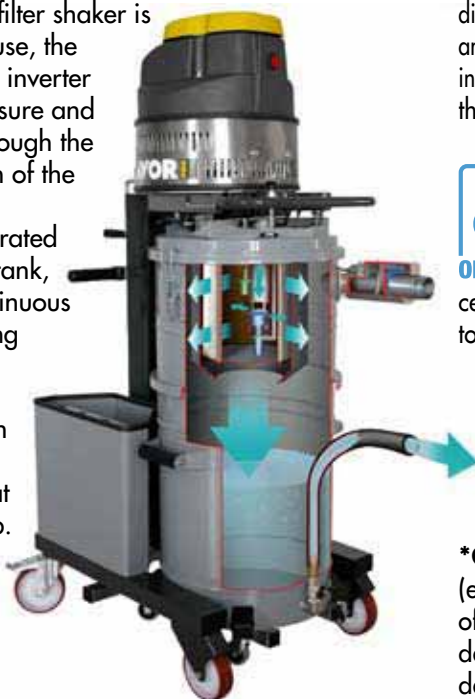


### Automatic liquid draining

When filter shaker is not in use, the airflow inverter put the tank in pressure and push liquids out through the faucet at the bottom of the tank.

With optional integrated submersible pump tank, the draining is continuous and without stopping working.

With this accessory it is possible to push out completely also melting residual that pump won't pick up.



### 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.



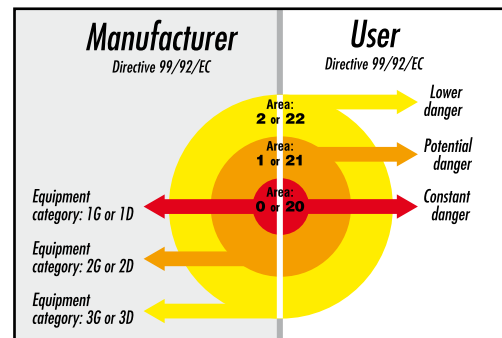
### ATEX (ATmospheres EXplosibles) vacuum certificate

Machine can safely working in areas (ATEX zone 2 or 22) where potential explosive atmosphere are present. The classification of the areas where machine will be installed accordingly with EU directives and amendments is in charge to the user. Important: this certificate allows only to install the machine and not to pick up potential explosive dust for which a TYPE 22 certified product is mandatory.



### TYPE 22 vacuum certificate

All the machine (not only portion or just the filter) is complying EU directive and norms that describe applications and working conditions. Talking about TYPE 22 means machine is complying together ATEX directive for zone 22 and EU directive to be able to work with dangerous dust (M class): further to free installation of the machine in an area where is not frequent but possible the presence of explosive atmosphere, it is allowed to pick up potential explosive air/dust mixture. The classification of the areas where machine will be installed accordingly with EU directives and amendments is in charge to the user.



#### Type of explosive atmospheres

**G** (gas): mixture of gas/air, steam/air or fog/air - **area 0,1 and 2**  
**D** (dust): mixture of dust/air - **area 20,21 and 2**



### Compressed air operating vacuum

Only compressed air is necessary to make the machine working. Not using any electric component, it is possible to offer an ATEX self certificate for ATEX zone 2 or 22. This is a good cheaper option to electric ATEX machines.

\***OEL** (Occupational Exposure Limit) it is a value (expressed in mg/m<sup>3</sup>) that tells the maximum concentration of dust in the working area when extended exposure is not dangerous for the operator. Lower is the OEL value, more dangerous is the dust.

### Nomenclature

S = Universal (motor)  
D = Induction (motor)  
P = Pneumatic

M = Single phase (motor)  
T = Tri-Phase (motor)  
V = Varnishing (tank)  
X = S/S (tank)

SMX 77 2-24 SH

Liters(tank) x 100 = 2400 W

Dust class

Filter shaker

n° Motor



SMV77  
SMX77

SMV50 2-24 SM  
SMX50 2-24 SM

SMV70 3-36 SH

SMX100 3-36

DMV50 1-22 SM  
DMX50 1-22 SM

DTV70 1-30 SH

Code	Model	Page	Voltage	Abs. Power	Column depression	Suction air	Tank capacity	Noise level	Filtering surface	Packaging	Packaging weight	Packaging weight	Pieces for pallet
			V~Hz (Ph)	W	kPa	l/s	l	dB(A)	cm <sup>2</sup>	cm L x l x H	kg	lbs	n°
0.056.0001	SMV77 2-24	106	230 V~50 Hz (1Ph)	2000	23.6 kPa	108 l/s	77 l.	74 dB(A)	4300 cm <sup>2</sup>	70x91x141	66	145,5	1
0.056.0002	SMX77 2-24	106	230 V~50 Hz (1Ph)	2000	23.6 kPa	108 l/s	77 l.	74 dB(A)	4300 cm <sup>2</sup>	70x91x141	66	145,5	1
0.056.0003	SMV77 3-36	106	230 V~50 Hz (1Ph)	3000	23.6 kPa	162 l/s	77 l.	76 dB(A)	4300 cm <sup>2</sup>	70x91x141	67	147,7	1
0.056.0004	SMX77 3-36	106	230 V~50 Hz (1Ph)	3000	23.6 kPa	162 l/s	77 l.	76 dB(A)	4300 cm <sup>2</sup>	70x91x141	67	147,7	1
0.044.0201	SMV50 2-24 SM	107	230 V~50 Hz (1Ph)	2400	22.6 kPa	83 l/s	50 l.	<70 dB(A)	15000 cm <sup>2</sup>	70x90x151	79,6	175,4	1
0.044.0202	SMX50 2-24 SM	107	230 V~50 Hz (1Ph)	2400	22.6 kPa	83 l/s	50 l.	<70 dB(A)	15000 cm <sup>2</sup>	70x90x151	79,6	175,4	1
0.044.0203	SMV70 3-36 SH	108	230 V~50 Hz (1Ph)	3600	22.6 kPa	125 l/s	70 l.	<70 dB(A)	12000 cm <sup>2</sup>	70x90x158	115	253,3	1
0.044.0004	SMX100 3-36	109	230 V~50 Hz (1Ph)	3600	22.6 kPa	125 l/s	100 l.	<70 dB(A)	15000 cm <sup>2</sup>	70x90x158	115	253,3	1
0.045.0213	DMV50 1-22 SM	110	230 V~50 Hz (1Ph)	2200	22.6 kPa	89 l/s	50 l.	<74 dB(A)	15000 cm <sup>2</sup>	70x90x151	100,8	222,2	1



DTX100 1-30

DTV100 1-55  
DTX100 1-55

DTX50 1-30 Ex TYPE22

DTX70 1-30 Ex TYPE22

PX100 6-25 Ex

Code	Model	Page	Voltage	Abs. Power	Column depression	Suction air	Tank capacity	Noise level	Filtering surface	Packaging	Packaging weight	Packaging weight	Pieces for pallet
			V~Hz (Ph)	W	kPa	l/s	l	dB(A)	cm <sup>2</sup>	cm L x l x H	kg	lbs	n°
0.045.0214	DMX50 1-22 SM	110	230 V~50 Hz (1Ph)	2200	22.6 kPa	89 l/s	50 l.	<74 dB(A)	15000 cm <sup>2</sup>	70x90x151	100,8	222,2	1
0.045.0203	DTV70 1-30 SH	111	400 V~50 Hz (3Ph)	3000	31.4 kPa	89 l/s	70 l.	<74 dB(A)	12000 cm <sup>2</sup>	70x90x202	141,4	311,7	1
0.045.0004	DTX100 1-30	112	400 V~50 Hz (3Ph)	3000	31.4 kPa	89 l/s	100 l.	<74 dB(A)	15000 cm <sup>2</sup>	70x90x202	141,4	311,7	1
0.045.0005	DTV100 1-55	113	400 V~50 Hz (3Ph)	5500	31.4 kPa	156 l/s	100 l.	<78 dB(A)	15000 cm <sup>2</sup>	70x90x203	152	334,8	1
0.045.0006	DTX100 1-55	113	400 V~50 Hz (3Ph)	5500	31.4 kPa	156 l/s	100 l.	<78 dB(A)	15000 cm <sup>2</sup>	70x90x203	152	334,8	1
0.045.0219	DTX50 1-30 Ex TYPE 22	114	400 V~50 Hz (3Ph)	2600	22.6 kPa	89 l/s	50 l.	<74 dB(A)	15000 cm <sup>2</sup>	70x90x152	103	227,1	1
0.045.0217	DTX70 1-30 Ex TYPE 22	114	400 V~50 Hz (3Ph)	2600	31.4 kPa	89 l/s	70 l.	<74 dB(A)	15000 cm <sup>2</sup>	70x90x202	141,4	311,7	1
0.048.0001	PX100 6-25 Ex	115	-	-	29.4 kPa	100 l/s	100 l.	<70 dB(A)	15000 cm <sup>2</sup>	70x90x158	75	165,2	1



## SMV 77 SMX 77

Accessory storage facility

Non-overturning steel structure.

Steering polyurethane antistain wheels with brake

Manual filter shaker

SMV:  
Epoxy varnishing  
SMX:  
AISI 304 Stainless Steel



### Standard Accessories:

- Reduction Ø 70 - Ø 50 mm



- Manual filter shaker
- Silenced Motors.



- Tough integrated accessory storage facility
- Non-overturning steel structure.



- Control panel

### Optional:

- Color filter



- Oven kit Ø 40



	SMV77 2-24	SMX77 2-24	SMV77 3-36	SMX77 3-36
code	0.056.0001	0.056.0002	0.056.0003	0.056.0004
abs. power W	2000	2000	3000	3000
n° / type motor	2x two stages universal	2x two stages universal	3x two stages universal	3x two stages universal
column depression	23,6 kPa (2400 mmH2O)	23,6 kPa (2400 mmH2O)	23,6 kPa (2400 mmH2O)	23,6 kPa (2400 mmH2O)
suction air	108 l/s	108 l/s	162 l/s	162 l/s
tank volume/dust capacity/liquid capacity	77 l / 45 l / 50 l	77 l / 45 l / 50 l	77 l / 45 l / 50 l	77 l / 45 l / 50 l
noise level	74 dB(A)	74 dB(A)	76 dB(A)	76 dB(A)
voltage	230 V~50 Hz (1Ph)	230 V~50 Hz (1Ph)	230 V~50 Hz (1Ph)	230 V~50 Hz (1Ph)
filtering surface	4300 cm <sup>2</sup>	4300 cm <sup>2</sup>	4300 cm <sup>2</sup>	4300 cm <sup>2</sup>
filtering capacity	5 µm	5 µm	5 µm	5 µm
cable length	7,5 m	7,5 m	7,5 m	7,5 m
dimensions / weight	70x91x141cm/66Kg-145.2 lbs	70x91x141cm/66Kg-145.2 lbs	70x91x141cm/67Kg-147.4 lbs	70x91x141cm/67Kg-147.4 lbs



## SMV 50 SM SMX 50 SM



SMV:  
Epoxy varnishing  
SMX:  
AISI 304 Stainless Steel

Non-overturning steel structure.

Collector tank lifting lever

Automatic filter shaker

Accessory storage facility

Steering polyurethane antistain wheels with brake



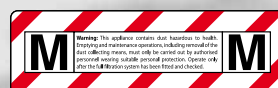
MOTORS



WASHABLE

ELECTROSTATIC

PROOF



### Standard Accessories:

- Double filters



- Silenced Motors.
- Tough integrated accessory storage facility
- Non-overturning steel structure.



- Depressure gauge



- Collector tank

### Optional:

- Complete fixed front



- Floating galvanized basket

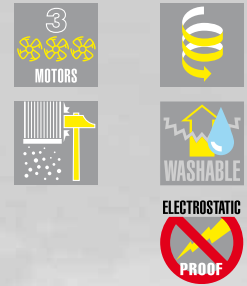


- Floater



	SMV50 2-24 SM	SMX50 2-24 SM
code	0.044.0201	0.044.0202
abs. power W	2400	2400
n° / type motor	2x two stages universal	2x two stages universal
column depression	22.6 kPa (2300 mmH2O)	22.6 kPa (2300 mmH2O)
suction air	83 l/s	83 l/s
tank volume/dust capacity/liquid capacity	50 l / 30 l / 35 l	50 l / 30 l / 35 l
noise level	<70 dB(A)	<70 dB(A)
voltage	230 V~50 Hz (1Ph)	230 V~50 Hz (1Ph)
filtering surface	15000 cm <sup>2</sup>	15000 cm <sup>2</sup>
filtering capacity	M class	M class
cable lenght	10 m	10 m
dimensions / weight	62x80x116cm/66,2 Kg-145.9 lbs	62x80x116cm/66,2 Kg-145.9 lbs

## SMV 70 SH



### Standard Accessories:

- Double filters



- Depressure gauge
- Silenced Motors.
- Non-overturning steel structure.

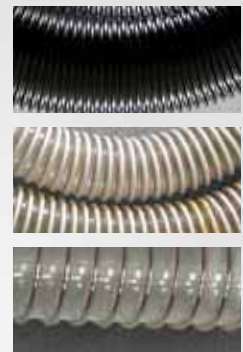


- Collector tank



- Tangential coupling Ø 50.

### Optional:



SMV70 3-36 SH	
code	0.044.0203
abs. power W	3600
n° / type motor	3x two stages universal
column depression	22.6 kPa (2300 mmH2O)
suction air	125 l/s
tank volume/dust capacity/liquid capacity	70 l / 45 l / 60 l
noise level	<70 dB(A)
voltage	230 V~50 Hz (1Ph)
filtering surface	12000 cm <sup>2</sup>
filtering capacity	H class
cable lenght	10 m
dimensions / weight	70x90x158cm/115 Kg-253.3 lbs

**SMX 100**

Collector tank lifting lever

Automatic filter shaker

No return valve

Non-overturning steel structure.

Accessory storage facility

AISI 304 Stainless Steel

Steering polyurethane antistain wheels with brake

Water unload valve



**Standard Accessories:**

- 1 µm duster filter



- Silenced Motors.
- Tough integrated accessory storage facility
- Non-overturning steel structure.



- No return valve.



- Collector tank lifting lever

**Optional:**

- S/S tank 100 l. with pump



**SMX100 3-36**

code	0.044.0004
abs. power W	3600
n° / type motor	3x two stages universal
column depression	22.6 kPa (2300 mmH2O)
suction air	125 l/s
tank volume/dust capacity/liquid capacity	100 l / 70 l / 90 l
noise level	<70 dB(A)
voltage	230 V~50 Hz (1Ph)
filtering surface	15000 cm²
filtering capacity	1 µm
cable lenght	10 m
dimensions / weight	70x90x158cm/115 Kg-253.3 lbs

## DMV 50 SM DMX 50 SM

DMV:  
Epoxy varnishing  
DMX:  
AISI 304 Stainless Steel

Non-overturning steel structure.

Collector tank lifting lever



Automatic filter shaker

Accessory storage facility

Steering polyurethane antistain wheels with brake



### Standard Accessories:

- Double filters



- Depressure gauge
- Silenced Motors.

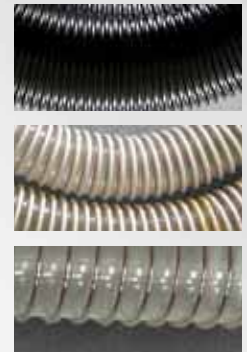


- Automatic filter shaker



- Control system

### Optional:



	DMV50 1-22 SM	DMX50 1-22 SM
code	0.045.0213	0.045.0214
abs. power W	2200	2200
n° / type motor	1x induction	1x induction
column depression	22.6 kPa (2300 mmH2O)	22.6 kPa (2300 mmH2O)
suction air	89 l/s	89 l/s
tank volume/dust capacity/liiquid capacity	50 l / 30 l / 35 l	50 l / 30 l / 35 l
noise level	<74 dB(A)	<74 dB(A)
voltage	230 V~50 Hz (1Ph)	230 V~50 Hz (1Ph)
filtering surface	15000 cm <sup>2</sup>	15000 cm <sup>2</sup>
filtering capacity	M class	M class
cable lenght	10 m	10 m
dimensions / weight	61x79x135cm/87,4 Kg-92.7 lbs	61x79x135cm/87,4 Kg-92.7 lbs



## DTV 70 SH

DMV:  
Epoxy varnishing  
DMX:  
AISI 304 Stainless Steel

Non-overturning steel structure.

Collector tank lifting lever



Automatic filter shaker

Accessory storage facility

Steering polyurethane antistain wheels with brake



### Standard Accessories:

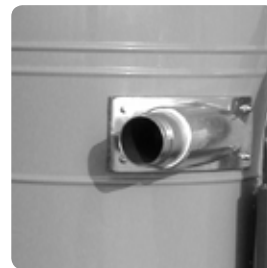
- Double filters



- Automatic filter shaker
- Silenced Motors.



- Collector tank lifting lever



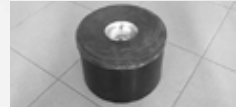
- Tangential coupling  $\varnothing$  50.

### Optional:

- Floating galvanized basket



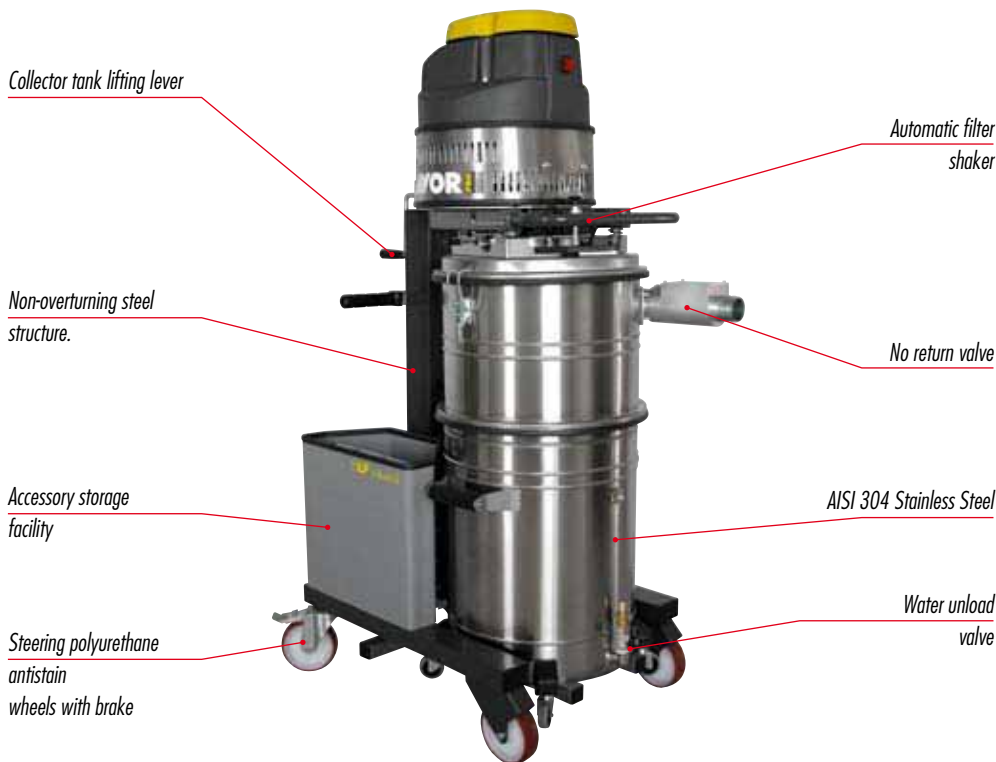
- Floater



### DTV70 1-30 SH

code	0.045.0203
abs. power W	3000
n° / type motor	1x induction
column depression	31.4 kPa (3200 mmH2O)
suction air	89 l/s
tank volume/dust capacity/liquid capacity	70l / 45l / 60l
noise level	<74 dB(A)
voltage	400 V~50 Hz (3Ph)
filtering surface	12000 cm <sup>2</sup>
filtering capacity	H class
cable lenght	10 m
dimensions / weight	64x88x168cm/127,2 Kg-280.4 lbs

## DTX100 1-30



### Standard Accessories:

- 1 µm duster filter



- Automatic filter shaker
- Silenced Motors.



- Collector tank lifting lever



- Particular of collector tank lifting lever

### Optional:

- Liquids expulsion lance



- Galvanized chip basket



### DTX100 1-30

code	0.045.0004
abs. power W	3000
n° / type motor	1x induction
column depression	31.4 kPa (3200 mmH2O)
suction air	89 l/s
tank volume/dust capacity/liquid capacity	100 l / 70 l / 90 l
noise level	<74 dB(A)
voltage	400 V~50 Hz (3Ph)
filtering surface	15000 cm <sup>2</sup>
filtering capacity	1 µm
cable length	10 m
dimensions / weight	64x88x168cm/127,2 Kg-280.4 lbs

## DTV100 1-55 DTX100 1-55

Collector tank lifting lever

Automatic filter shaker

Non-overturning steel structure.

No return valve

Accessory storage facility

AISI 304 Stainless Steel

Steering polyurethane antistain wheels with brake

Water unload valve



### Standard Accessories:

- 1 µm dust filter



- Automatic filter shaker
- Silenced Motors.



- Collector tank lifting lever



- Particular of collector tank lifting lever

### Optional:

- Tangential valve Ø 70 mm



- Floating galvanized basket



- Floater



	DTV100 1-55	DTX100 1-55
code	0.045.0005	0.045.0006
abs. power W	5500	5500
n° / type motor	1x induction	1x induction
column depression	31.4 kPa (3200 mmH2O)	31.4 kPa (3200 mmH2O)
suction air	156 l/s	156 l/s
tank volume/dust capacity/liquid capacity	100 l / 70 l / 90 l	100 l / 70 l / 90 l
noise level	<78 dB(A)	<78 dB(A)
voltage	400 V~50 Hz (3Ph)	400 V~50 Hz (3Ph)
filtering surface	15000 cm <sup>2</sup>	15000 cm <sup>2</sup>
filtering capacity	1 µm	1 µm
cable lenght	10 m	10 m
dimensions / weight	70x90x203cm/152 Kg- 334.8 lbs	70x90x203cm/152 Kg-334.8 lbs

### DTX Ex Type 22

AISI 304 Stainless Steel

Non-overturning steel structure.

Collector tank lifting lever

Automatic filter shaker

AISI 304 Stainless Steel

Accessory storage facility



#### Standard Accessories:

- Double filters



- Depressure gauge
- Silenced Motors.

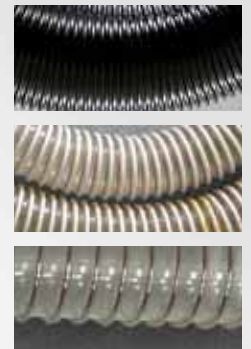


- Automatic filter shaker



- Tough integrated accessory storage facility
- Non-overturning steel structure.

#### Optional:



#### ATEX - TYPE 22

#### DTX50 1-30 Ex TYPE 22

#### DTX70 1-30 Ex TYPE 22

code	0.045.0219	0.045.0217
abs. power W	2600	2600
n° / type motor	1x induction	1x induction
column depression	22.6 kPa (2300 mmH2O)	31.4 kPa (3200 mmH2O)
suction air	89 l/s	89 l/s
tank volume/dust capacity/liquid capacity	50 l / 30 l / 35 l	70 l / 45 l / 60 l
noise level	<74 dB(A)	<74 dB(A)
voltage	400 V~50 Hz (3Ph)	400 V~50 Hz (3Ph)
filtering surface	15000 cm <sup>2</sup>	15000 cm <sup>2</sup>
filtering capacity	TYPE 22	TYPE 22
cable length	10 m	10 m
dimensions / weight	70x90x152 / 103 Kg-227.07 lbs	64x88x168cm / 127,2 Kg-280.4 lbs



## PX 6-25 Ex Type 22



### Standard Accessories:

- 1 µm duster filter



- Collector tank lifting lever
- Non-overturning steel structure.



- Collector tank lifting lever



- Compressed air inlet with pressure regulator

### Optional:

- It is necessary to use supply conductive flexible hose (compressed air) code 0.144.0048, in order to comply with ATEX directives.















### ATEX - TYPE 22

### PX100 6-25 Ex



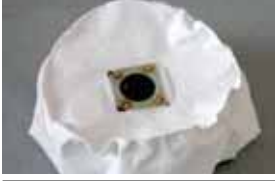




code	0.048.0001
inlet (power) pressure	6 bar
min. air consumption	22 l/s
suggested air feed	25 l/s
column depression (at 6 bar)	29.4 kPa (3000 mmH2O)
air flow (at 6 bar)	100 l/s
tank volume/dust capacity/liquid capacity	100 l / 70 l / 90 l
noise level	<70 dB(A)
filtering surface	15000 cm <sup>2</sup>
filtering capacity	1 µm
cable lenght	-
dimensions / weight	70x90x158cm/75 Kg-165.2 lbs

## Accessories

	0.144.0028	complete fixed front wet tool with pipe																			
	0.144.0045	floating galvanized basket																			
	0.144.0046	floater																			
	0.144.0033	painted separating tank 100 l with cover (1x 0.144.0049 requested)																			
	0.144.0034	painted small scrap tool reduced tank (1x 0.144.0035 requested)																			
	0.144.0035	painted small scrap tool with plug (1x 0.144.0034 requested)																			
	0.144.0036	small scrap tool tank plug																			
	0.144.0037	galvanized chip basket																			
	0.144.0038	liquids expulsion lance with gun Ø 25 x 1,8 m																			
	0.144.0039	Hepa filter (primary-standard)																			
	5.512.0034	Hepa filter																			
	5.212.0021	Washable filter 1 micron																			









S = standard equipment O = optional

### Accessories

			SMV 77 2-24	SMX 77 2-24	SMV 77 3-36	SMX 77 3-36	SMV50 2-24 SM	SMX50 2-24 SM	SMV70 3-36 SH	SMX100 3-36	DMV50 1-22 SM	DMX50 1-22 SM	DTX50 1-30 Ex TYPE22	DTV70 1-30 SH	DTX100 1-30	DTV70 1-30 Ex TYPE22	DTV100 1-55	DTX100 1-55	PX100 6-25
	0.144.0040	washable filter 1 micron (primary-standard)					S	S	S	S	S	S		S		S	S	S	S
	0.144.0082	washable filter 1 micron (primary-Higher)							S					S		S			
	0.144.0084	Hepa filter (secondary-standard)					S	S		S	S	S							
	0.144.0083	Hepa filter (secondary-Higher)							S					S		S			
	0.144.0042	dangerous dust bag filter(1x 0.144.0034 + 1x 0.144.0035 + 1x 0.144.0039 requested)								O					O		O	O	O
	0.144.0043	small scrap tool bag filter (1x 0.144.0034 + 1x 0.144.0035 requested)								O					O		O	O	O
	0.156.0005	oven complete kit Ø 40 (flex/extension pipe)	O	O	O	O													
	0.156.0016	Kit 3 prolunghe Ø 40x100cm isolate per forno	O	O	O	O													
	0.156.0026	heat resistant ext.100% insulate Ø 40x100cm	O	O	O	O													
	0.156.0027	heat resistant ext.50% insulate Ø 40x100cm	O	O	O	O													
	0.156.0028	heat resistant ext. not insulate Ø 40x100cm	O	O	O	O													
	0.156.0025	steel flex oven pipe	O	O	O	O													
	0.156.0022	heat resistant inox tool cm 40 Ø 40	O	O	O	O													
	0.156.0003	heat resistant oven filter	O	O	O	O													
	0.156.0004	teflon filter	O	O	O	O													
	5.509.0039	cloth filter	S	S	S	S													
	0.156.0007	steel joint coupling Ø 50	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	0.156.0008	steel joint coupling Ø 70					O	O	O	O	O	O	O	O	O	O	O	O	O
	0.156.0009	steel joint coupling Ø 40	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

S = standard equipment O = optional




## Accessories







			SMV 77 2-24	SMX 77 2-24	SMV 77 3-36	SMX 77 3-36	SMV50 2-24 SM	SMX50 2-24 SM	SMV70 3-36 SH	SMX100 3-36	DMV50 1-22 SM	DMX50 1-22 SM	DTX50 1-30 Ex TYPE22	DTV70 1-30 SH	DTX100 1-30	DTX70 1-30 Ex TYPE22	DTV100 1-55	DTX100 1-55	PX100 6-25
	0.156.0021	stainless steel chip basket	○	○	○	○													
	0.156.0018	steel reduction mm 70-40	○	○	○	○													
	0.156.0019	steel reduction mm 70-50	S	S	S	S													
	0.156.0001	steel cyclone cone	○	○	○	○													
	0.156.0002	"L" steel pipe Ø 50 L 1200	○	○	○	○													
	0.156.0014	extension steel pipe 50 cm Ø 50	○	○	○	○													
	0.156.0012	nylon oven coupling	○	○	○	○													
	0.144.0085	S/S tank with pump 230V 50HZ and chip basket								○					○		○	○	
	0.144.0086	stainless steel chip basket for tank with pump								○					○		○	○	


S = standard equipment ○ = optional









Accessories

0.056.0001	SMV77 2-24	 Ø 50 mm 0.156.0019 (Standard)				
0.056.0002	SMX77 2-24				3.099.1077	0.144.0047
0.056.0003	SMV77 3-36				3.099.1077	0.144.0047
0.056.0004	SMX77 3-36				3.099.1077	0.144.0002
					3.099.1077	0.144.0001
					3.099.1077	0.144.0002

0.044.0201	SMV50 2-24 SM	 Ø 50 mm (Standard)				
0.044.0202	SMX50 2-24 SM		-	0.144.0008	3.099.1077	0.144.0047
0.044.0203	SMV70 3-36 SH		0.144.0024	-	2x - 3.099.1077	2x - 0.144.0047
0.044.0004	SMX100 3-36		-	0.144.0008	3.099.1077	0.144.0002
0.045.0213	DMV50 1-22 SM		-	-	-	0.144.0007
0.045.0214	DMX50 1-22 SM		0.144.0024	-	-	2x - 0.144.0003
0.045.0219	DTX50 1-30 EX TYPE22		-	0.144.0008	3.099.1077	0.144.0001
0.045.0203	DTV70 1-30 SH		-	0.144.0008	3.099.1077	0.144.0002
0.045.0004	DTX100 1-30				3.099.1268	0.144.0052
0.045.0217	DTX70 1-30 EX TYPE22					
0.045.0005	DTV100 1-55	 Ø 70 mm 0.144.0050 (Optional)	-	-		
0.045.0006	DTX100 1-55					
0.048.0001	PX100 6-25					

  				accessories
3.753.0050 (EVA COND. Ø 38 - min 5 m. or mult., max 30 m.)	0.144.0047	3.099.1077	0.144.0011	1 - 2 - 3 - 5 - 6 - 7 - 9 - 10 - 11 - 12 - 13 - 14
3.753.0050 (EVA COND. Ø 38 - min 5 m. or mult., max 30 m.)	-	-	-	4
3.753.0051 (EVA COND. Ø 50 - min 5 m. or mult., max 30 m.)	0.144.0002	3.099.1077	0.144.0011	1 - 2 - 3 - 5 - 6 - 7 - 9 - 10 - 11 - 12 - 13 - 14
3.753.0053 (PUR ANTIST. Ø 50 - min 5 m. or mult., max 20 m.)	0.144.0001	3.099.1077	0.144.0011	1 - 2 - 3 - 5 - 6 - 7 - 9 - 10 - 11 - 12 - 13 - 14
3.753.0054 (PUR ANTIOIL Ø 50 - min 5m. or mult., max 60 m.)	0.144.0002	3.099.1077	0.144.0011	1 - 2 - 3 - 5 - 6 - 7 - 9 - 10 - 11 - 12 - 13 - 14

  				accessories
3.753.0050 (EVA COND. Ø 38 - min 5 m. or mult., max 30 m.)	0.144.0047	3.099.1077	0.144.0011	1 - 2 - 3 - 5 - 6 - 7 - 9 - 10 - 11 - 12 - 13 - 14
3.753.0050 (EVA COND. Ø 38 - min 5 m. or mult., max 30 m.)	2x - 0.144.0047	2x - 3.099.1077	2x - 0.144.0011	1 - 2 - 3 - 5 - 6 - 7 - 9 - 10 - 11 - 12 - 13 - 14
3.753.0051 (EVA COND. Ø 50 - min 5 m. or mult., max 30 m.)	0.144.0002	3.099.1077	0.144.0011	1 - 2 - 3 - 5 - 6 - 7 - 9 - 10 - 11 - 12 - 13 - 14
3.753.0052 (PUR ANTIST. Ø 40 - min 5 m. or mult., max 20 m.)	0.144.0003	-	-	15 - 16
3.753.0052 (PUR ANTIST. Ø 40 - min 5 m. or mult., max 20 m.)	2x - 0.144.0003	-	-	15 - 16
3.753.0053 (PUR ANTIST. Ø 50 - min 5 m. or mult., max 20 m.)	0.144.0001	3.099.1077	0.144.0011	1 - 2 - 3 - 5 - 6 - 7 - 9 - 10 - 11 - 12 - 13 - 14
3.753.0054 (PUR ANTIOIL Ø 50 - min 5m. or mult., max 60 m.)	0.144.0002	3.099.1077	0.144.0011	1 - 2 - 3 - 5 - 6 - 7 - 9 - 10 - 11 - 12 - 13 - 14
3.753.0087 (PUR COND. Ø 70 - min 5m. or mult., max 20 m.)	0.144.0052	3.099.1268	-	8



**EVA CONDUCTIVE**  
lightness and flexibility



**PUR ANTISTATIC**  
lightness and moderate flexibility



**PUR OIL PROOF**  
Antistatic, oil and abrasion proof

## Accessories

	1	0.144.0012	Ø 50 - steel double curve with joint coupling
	2	0.144.0013	Ø 50 - steel extension with joint coupling
	3	0.144.0014	Ø 50 - steel flat lance mm 500
	4	0.156.0006	Ø 40 - steel flat lance mm 500
	5	0.144.0021	Ø 50 - antistatic rubber conic lance
	6	0.144.0022	Ø 50 - antistatic rubber conic bend lance
	7	0.144.0015	Ø 50 - antistatic rubber round lance
	8	0.144.0051	Ø 70 - antistatic rubber round lance
	9	0.144.0019	Ø 50 - antistatic rubber suction lance
	10	0.144.0026	Ø 50 - dust inox floor tool
	11	0.144.0027	Ø 50 - wet inox floor tool
	12	0.144.0025	Ø 50 - dust oval tool
	13	0.144.0017	Ø 50 - PVC flat lance
	14	0.144.0018	Ø 50 - PVC round brush
	15	3.754.0048	Ø 40 - PVC flat lance
	16	3.754.0049	Ø 40 - PVC round brush

### Accessories

		SMV 77 2-24	SMX 77 2-24	SMV 77 3-36	SMX 77 3-36	SMV 50 2-24 SM	SMX 50 2-24 SM	SMV 70 3-36 SH	SMX 100 3-36	DMV 50 1-22 SM	DMX 50 1-22 SM	DTX 50 1-30EX TYPE22	DTV 70 1-30 SH	DTX 100 1-30	DTX 50 1-30EX TYPE22	DTV 100 1-55	DTX 100 1-55	PX 100 6-25	
<b>Ø 38</b>																			
multi users kit								○	○				○	○	○	○	○	○	
EVA conductive complete flexible hose 3m. Ø38	6.205.0048																		
double steel coupling	0.144.0024																		
conductive coupling for EVA flexible Ø38 - accessory side Ø50	0.144.0047																		
antistatic rubber conic bend lance Ø32	0.144.0022																		
PVC flat lance with galvanized joint Ø50	0.144.0017																		
PVC round brush with galvanized joint Ø50	0.144.0018																		
vehicles kit		○	○	○	○														
EVA conductive flexible hose Ø38 - for meter (5m and multiple of 5m, 30m max)	3.753.0050																		
conductive coupling for EVA flexible Ø38 - accessory side	0.144.0004																		
conductive coupling for EVA flexible Ø38 - accessory side Ø 50	0.144.0047																		
0.5 m PVC extension pipe Ø 45	3.753.0039																		
flat lance Ø 40	3.754.0048																		
round brush Ø 40	3.754.0049																		
home&office kit		○	○	○	○														
EVA conductive flexible hose Ø 38 - for meter (5m and multiple of 5m, 30m max)	3.753.0050																		
conductive coupling for EVA flexible Ø 38 - accessory side	0.144.0004																		
conductive coupling for EVA flexible Ø 38 - accessory side Ø 50	0.144.0047																		
chromium-plated steel curve Ø 40	3.753.0019																		
chromium-plated steel extension pipe Ø 40	3.753.0020																		
Ø 40 / 400mm holder for floor accessories	3.753.0083																		
floor brush (bristle) 400 mm	3.753.0084																		
flat lance Ø 40	3.754.0048																		
round brush Ø 40	3.754.0049																		



## Accessories

		SMV 77 2-24	SMX 77 2-24	SMV 77 3-36	SMX 77 3-36	SMV 50 2-24 SM	SMX 50 2-24 SM	SMV 70 3-36 SH	SMX 100 3-36	DMV 50 1-22 SM	DMX 50 1-22 SM	DTX 50 1-30EX TYPE22	DTV 70 1-30 SH	DTX 100 1-30	DTX 50 1-30EX TYPE22	DTV 100 1-55	DTX 100 1-55	PX 100 6-25	
<b>Ø 40</b>																			
vehicles kit		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
PUR antistatic complete flexible hose 3mt. Ø40	6.205.0050																		
PVC flat lance with galvanized joint Ø50	0.144.0017																		
PVC round brush with galvanized joint Ø50	0.144.0018																		
antistatic rubber conic bend lance Ø32	0.144.0022																		
conductive coupling for PUR flexible Ø40 (only for smv/smx77 models)	0.144.0003																		
home&office kit		○	○	○	○	○	○			○	○	○							
PUR antistatic complete flexible hose 3mt. Ø40	6.205.0050																		
steel double curve with joint coupling Ø50	0.144.0012																		
joint coupling for flexible Ø50 and accessory coupling Ø50	0.144.0011																		
conductive coupling for PUR flexible Ø40 - tank side Ø60	0.144.0007																		
dust oval tool with joint Ø50	0.144.0025																		
conductive coupling for PUR flexible Ø40 (only for smv/smx77 models)	0.144.0003																		
mechanical industry kit								○	○				○	○	○	○	○	○	
PUR antistatic complete flexible hose 3mt. Ø 40	6.205.0050																		
steel double curve with joint coupling Ø 50	0.144.0012																		
joint coupling for flexible Ø 50 and accessory coupling Ø 50	0.144.0011																		
conductive coupling for PUR flexible Ø 40 - tank side Ø 60	0.144.0007																		
dust inox tool with joint Ø 50	0.144.0026																		
wet inox tool with joint Ø 50	0.144.0027																		
antistatic rubber conic lance with galvanized joint Ø 50	0.144.0021																		
antistatic rubber suction lance with galvanized joint Ø 50	0.144.0019																		
galvanized chip basket	0.144.0037																		
liquids expulsion lance with gun Ø 25 lenght 1,8m	0.144.0038																		
oven kit		○	○	○	○														
heat resistant flexible hose 3 m. Ø 40	0.156.0025																		
heat resistant extension Ø 40 full protected	0.156.0026																		
heat resistant extension Ø 40 semi-protected	0.156.0027																		
heat resistant extension Ø 40 not protected	0.156.0028																		
heat resistant inox tool Ø 40	0.156.0022																		

### Accessories

		SMV 77 2-24	SMX 77 2-24	SMV 77 3-36	SMX 77 3-36	SMV 50 2-24 SM	SMX 50 2-24 SM	SMV 70 3-36 SH	SMX 100 3-36	DMV 50 1-22 SM	DMX 50 1-22 SM	DTX 50 1-30EX TYPE22	DTV 70 1-30 SH	DTX 100 1-30	DTX 50 1-30EX TYPE22	DTV 100 1-55	DTX 100 1-55	PX 100 6-25	
<b>kit Ø 50</b>																			
vehicles kit		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
PUR antistatic complete flexible hose 3mt. Ø50	6.205.0051																		
PVC flat lance with galvanized joint Ø50	0.144.0017																		
PVC round brush with galvanized joint Ø50	0.144.0018																		
antistatic rubber conic bend lance Ø32	0.144.0022																		
conductive coupling for PUR flexible Ø50 (only for smv/smx77 models)	0.144.0001																		
home&office kit		○	○	○	○	○	○			○	○	○							
PUR antistatic complete flexible hose 3m. Ø 50	6.205.0051																		
steel double curve with joint coupling Ø 50	0.144.0012																		
joint coupling for flexible Ø 50 and accessory coupling Ø 50	0.144.0011																		
dust oval tool with joint Ø 50	0.144.0025																		
conductive coupling for PUR flexible Ø 50 (only for smv/smx77 models)	0.144.0001																		
mechanical industry kit								○	○				○	○	○	○	○		
PUR antistatic complete flexible hose 3m. Ø 50	6.205.0051																		
steel double curve with joint coupling Ø 50	0.144.0012																		
joint coupling for flexible Ø 50 and accessory coupling Ø 50	0.144.0011																		
dust inox tool with joint Ø 50	0.144.0026																		
wet inox tool with joint Ø 50	0.144.0027																		
antistatic rubber conic lance with galvanized joint Ø 50	0.144.0021																		
antistatic rubber suction lance with galvanized joint Ø 50	0.144.0019																		
galvanized chip basket	0.144.0037																		
liquids expulsion lance with gun Ø 25 lenght 1,8m	0.144.0038																		
building kit								○	○				○	○	○	○	○		
PUR antistatic complete flexible hose 3m. Ø 50	6.205.0051																		
joint coupling for flexible Ø 50 and accessory coupling Ø 50	0.144.0011																		
steel double curve with joint coupling Ø 50	0.144.0012																		
dust inox tool with joint Ø 50	0.144.0026																		
steel flat lance Ø 50 lenght 500 mm	0.144.0014																		

## Accessories

		SMV 77 2-24	SMX 77 2-24	SMV 77 3-36	SMX 77 3-36	SMV 50 2-24 SM	SMX 50 2-24 SM	SMV 70 3-36 SH	SMX 100 3-36	DMV 50 1-22 SM	DMX 50 1-22 SM	DTX 50 1-30EX TYPE22	DTV 70 1-30 SH	DTX 100 1-30	DTX 50 1-30EX TYPE22	DTV 100 1-55	DTX 100 1-55	PX 100 6-25	
chemical industry kit								○	○				○	○	○	○	○		
PUR antistatic/oil & abrasion proof complete flexible hose Ø 50 lenght 3m	6.205.0052																		
joint coupling for flexible Ø 50 and accessory coupling Ø 50	0.144.0011																		
steel double curve with joint coupling Ø 50	0.144.0012																		
wet inox tool with joint Ø 50	0.144.0027																		
steel flat lance Ø 50 lenght 500 mm	0.144.0014																		
galvanized chip basket	0.144.0037																		
liquids expulsion lance with gun Ø 25 lenght 1,8m	0.144.0038																		
mine kit																			○
PUR antistatic/oil & abrasion proof complete flexible hose Ø 50 lenght 3m	6.205.0052																		
joint coupling for flexible Ø 50 and accessory coupling Ø 50	0.144.0011																		
steel flat lance Ø 50 lenght 500 mm	0.144.0014																		
galvanized chip basket	0.144.0037																		
liquids expulsion lance with gun Ø 25 lenght 1,8m	0.144.0038																		
supply conductive flexible hose (compressed air)	0.144.0048																		
fine/dangerous dust kit								○	○				○	○	○	○	○		
PUR antistatic complete flexible hose 3m. Ø 50	6.205.0051																		
joint coupling for flexible Ø 50 and accessory coupling Ø 50	0.144.0011																		
steel double curve with joint coupling Ø 50	0.144.0012																		
dust inox tool with joint Ø 50	0.144.0026																		
steel flat lance Ø 50 lenght 500 mm	0.144.0014																		
painted small scrap tool reduced tank	0.144.0034																		
painted small scrap tool with plug	0.144.0035																		
dangerous dust bag filter	0.144.0042																		
joint coupling tank side for coupling Ø 60	0.144.0009																		
conduttive coupling for EVA flexible Ø 38 - accessory side Ø 50	0.144.0047																		



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

The procedure to choose the right product for specific application must take into consideration of: the weight (that is the pressure over the brush), the surface to work, the RPM / type of construction of the motor and the transmission type. Generally speaking, the lower is the rotation speed, the most effective is the pressure over the brush and deeper is dirt removal.

With the increasing of rotation speed, lower is the effect of the pressure over the floor.

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

### How much power is necessary?

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

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

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

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

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



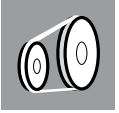




• **Satellite planetary gearbox transmission:**

Up to 400 RPM the reduction and transmission system is made with satellite planetary gear.

Grants continuous power, long life and noiselessness of the machine.



• **Belt transmission:**

When the rotation speed is more than 1000 RPM, the necessary traction torque decreases and technically it is a better solution because it damps the vibration of the rotary motion; assembling procedure and maintenance are easier.



• **Brush speed:**

Means Rotation Per Minute of the brush.



• **Vacuum system:**

Working at very high speed, a very fine dust is produced on the floor; it is collected in a collector tank, avoiding spreading in surrounding areas.

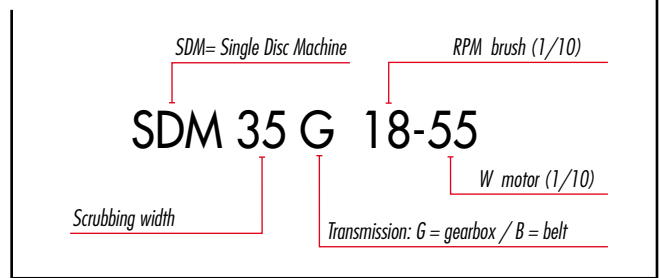


• **Pressure regulator:**

In order to obtain the best effect, it is possible to regulate the brush pressure on the floor.



**Nomenclature**



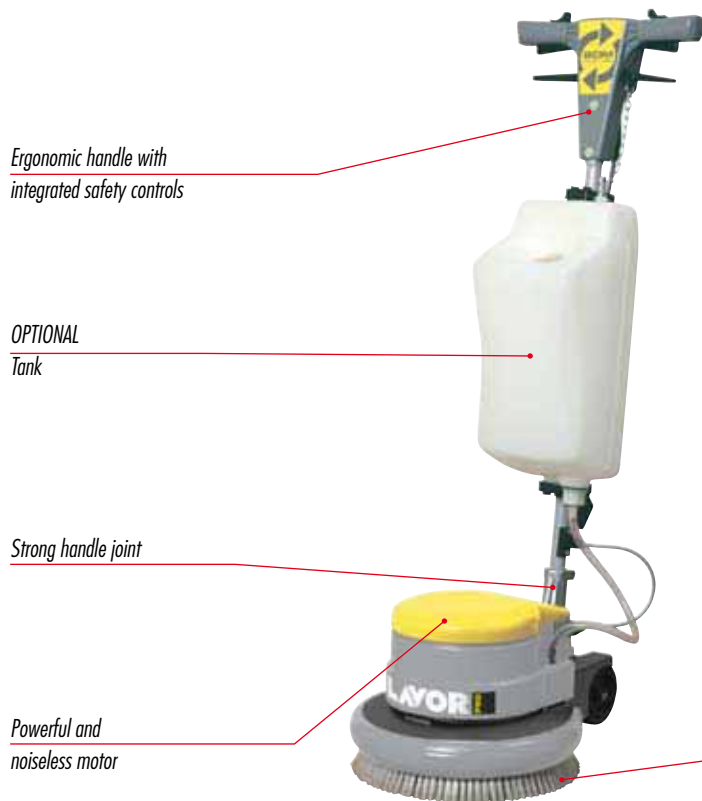
**Application**

Model	Code	Ø brush	Stripping synthetic floor (PVC)	Stripping cork present floor (linoleum)	Wet scrubbing/basic cleaning of stones, tiles and lino (sensitive floors)	Wet scrubbing/basic cleaning of synthetic or non sensitive floors pvc	Crystallizing	Carpet shampooing	Sanding wood	Sanding cement	Spray cleaning	Spray polishing and buffing
SDM 35G 18-55	0.055.0001	330 - 13"	•	•	•	•		•			•	
SDM 45G 15-100	0.055.0002	430 - 17"	•	•	•	•	•	•			•	
SDM 45G 15-130	0.055.0003	430 - 17"	•	•	•	•	•	•			•	
SDM 45G 15-160	0.055.0004	430 - 17"	•	•	•	•	•	•		•	•	
SDM 53G 15-160	0.055.0006	505 - 20"	•	•	•	•	•	•			•	
SDM 45G 15-220	0.055.0005	430 - 17"	•	•	•	•	•	•		•		
SDM 45G 40-160	0.055.0007	430 - 17"									•	•
SDM 43B 100-160	0.055.0008	406 - 16"										•
SDM 48B 150-130	0.055.0009	460 - 18"										•



Code	Model	Page	Absorbed power	Scrubbing width	Brush speed	Brush contact pressure	Handle packaging dimensions	Handle packaging weight	Handle packaging weight	Body packaging dimensions	Body packaging weight	Body packaging weight	Pieces for pallet
		W	mm-inch	RPM	g/cm <sup>2</sup>	mm L x l x H	Kg	lbs	mm L x l x H	Kg	lbs	n°	
0.055.0001	SDM 35G 18-55	129	550	330 - 13"	188	36,7	380x130x1090	5,50	12,12	420x380x250	19,50	42,99	24
0.055.0002	SDM 45G 15-100	130	1000	430 - 17"	154	40,3	380x140x1140	6,80	14,99	560x460x310	34,00	74,95	16
0.055.0003	SDM 45G 15-130	130	1300	430 - 17"	154	40,8	380x140x1140	6,80	14,99	560x460x310	41,00	90,38	16
0.055.0004	SDM 45G 15-160	130	1600	430 - 17"	154	41,3	380x140x1140	6,80	14,99	560x460x310	42,00	92,59	16
0.055.0005	SDM 45G 15-220	130	2200	430 - 17"	154	45,3	380x140x1140	6,80	14,99	560x460x310	46,00	101,41	16
0.055.0006	SDM 53G 15-160	130	1600	505 - 20"	154	34,9	380x140x1140	6,80	14,99	560x460x310	48,00	105,82	12
0.055.0007	SDM 45G 40-160	131	1600	430 - 17"	400	44,3	380x140x1140	6,80	14,99	560x460x310	46,50	102,51	16
0.055.0008	SDM 43B 100-160	132	1600	406 - 16"	1000	43,2	-	-	-	800x1270x1400	42,00	92,59	3
0.055.0009	SDM 48B 150-130	133	1300+700	460 - 18"	1500	0 - 5	-	-	-	900x560x740	47,00	103,61	4

SDM 35 G



Ergonomic handle with integrated safety controls

OPTIONAL Tank

Strong handle joint

Powerful and noiseless motor

OPTIONAL brush

188 RPM



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

- Wet-scrubbing and stripping.
- Easy to handle, practical and light. Thanks to the reduced dimensions and weight, it is ideal to use in small and average spaces or congested areas, without any limitation on a standard professional task, due to the lightness is suitable also for women use.



- Transmission: satellite planetary gearbox



- Strong handle joint

Optional:

- 0.955.001 Detergent tank
- 0.955.002 Spray system



SDM 35G 18-55

code	0.055.0001
type	low speed - light use
brush speed	188 RPM
scrubbing width	330 mm - 13"
voltage	230V / 50HZ
abs. power	550 W
transmission	satellite planetary gearbox
brush contact pressure	36.7 g/cm <sup>2</sup>
noise level	54 dB(A)
cable lenght	10 m
body height	220 mm - 8.66 inch
dimensions / weight	420x340x1120 mm / 22 Kg - 48.5 lbs

### SDM 45 G SDM 53 G



154 



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



- Ergonomic handle with integrated safety controls



- Transmission: satellite planetary gearbox



- Strong handle joint

#### Optional:

- 0.955.001 Detergent tank
- 0.955.002 Spray system



	SDM 45G 15-100	SDM 45G 15-130	SDM 45G 15-160	SDM 45G 15-220	SDM 53G 15-160
code	0.055.0002	0.055.0003	0.055.0004	0.055.0005	0.055.0006
type	low speed	low speed	low speed	low speed	low speed
brush speed	154 RPM	154 RPM	154 RPM	154 RPM	154 RPM
scrubbing width	430 mm - 17"	430 mm - 17"	430 mm - 17"	430 mm - 17"	505 mm - 20"
voltage	230V / 50HZ	230V / 50HZ	230V / 50HZ	230V / 50HZ	230V / 50HZ
abs. power	1000 W	1300 W	1600 W	2200 W	1600 W
transmission	satellite planetary gearbox	satellite planetary gearbox	satellite planetary gearbox	satellite planetary gearbox	satellite planetary gearbox
brush contact pressure	40.3 g/cm <sup>2</sup>	40.8 g/cm <sup>2</sup>	41.3 g/cm <sup>2</sup>	45.3 g/cm <sup>2</sup>	34.9 g/cm <sup>2</sup>
noise level	54 dB(A)	54 dB(A)	54 dB(A)	54 dB(A)	54 dB(A)
cable lenght	12 m	12 m	15 m	15 m	15 m
body height	280 mm - 11.02 inch	280 mm - 11.02 inch	280 mm - 11.02 inch	280 mm - 11.02 inch	280 mm - 11.02 inch
dimensions / weight	542x425x1200 mm/37 Kg-81.57lbs	542x425x1200 mm/42.5Kg-93.69lbs	542x425x1200 mm / 43.5 Kg - 95.9 lbs	542x425x1200 mm / 47.5 Kg - 104.71 lbs	625x505x1200 mm / 49.5 Kg - 109.12 lbs



## SDM 45G 40-160

Ergonomic handle with integrated safety controls

OPTIONAL Tank

Strong handle joint



OPTIONAL brush

400 



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



- For maintenance cleaning or for polishing whichever type of natural floor or treating with metalized waxes.



- Transmission: satellite planetary gearbox



- Strong handle joint

### Optional:

0.955.002 Spray system



### SDM 45G 40-160

code	0.055.0007
type	medium speed
brush speed	400 RPM
scrubbing width	430 mm - 17"
voltage	230V / 50HZ
abs. power	1600 W
transmission	satellite planetary gearbox
brush contact pressure	44.3 g/cm <sup>2</sup>
noise level	56 dB(A)
cable lenght	15 m
body height	280 mm - 11.02 inch
dimensions / weight	542x425x1200 mm / 47.5 Kg - 104.71 lbs

### SDM 43 B



Ergonomic handle with integrated safety controls

OPTIONAL  
Spray system

Powerful and noiseless motor

Strong handle joint

Flexible pad holder for uneven surfaces

1000 



#### Standard accessories:

- Flexible pad holder for uneven surfaces.

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



- For floor polishing with metalized waxes, straight and fan guidance system.



- Belt transmission.
- Flexible pad holder for uneven surfaces.



- Strong handle joint

#### Optional:

0.955.002 Spray system



#### SDM 43B 100-160

code	0.055.0008
type	high speed
brush speed	1000 RPM
scrubbing width	406 mm - 16"
voltage	230V / 50HZ
abs. power	1600 W
transmission	belt
brush contact pressure	43.2 g/cm <sup>2</sup>
noise level	56 dB(A)
cable lenght	1.5 m
body height	320 mm
dimensions / weight	720x420x1200 mm / 38.5 Kg - 84.87 lbs

SDM 48 B

Ergonomic handle with integrated safety controls

OPTIONAL  
Spray system

Contact pressure setting lamp

Variable contact pressure



Vacuum power setting

Steering polyurethane antistain wheels

Flexible pad holder for uneven surfaces

1500 RPM



PRESSURE  
+ -

Standard accessories:

- Flexible pad holder (included) for uneven surfaces

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



- High rendering for floor polishing with metalized waxes, straight and fan guidance system.



- Electronic vacuum power adjustment.
- Two leds check automatically the right pressure on the disc



- Vacuum system.
- Flexible pad holder for uneven surfaces.

Optional:

0.955.002 Spray system



SDM 48B 150-130

code	0.055.0009
type	ultra high speed
brush speed	1500 RPM
scrubbing width	460 mm - 18"
voltage	230V / 50HZ
abs. power	1300 W +700 W
transmission	belt
brush contact pressure	0-5 g/cm <sup>2</sup>
noise level	56 dB(A)
cable lenght	15 m
body height	320 mm
dimensions / weight	870x520x1130 mm / 43.5 Kg - 95.9 lbs




### Accessories

Description	Code	Models	Stripping synthetic floor (PVC)	Stripping cork present floor (linoleum)	Wet scrubbing/basic cleaning of stones, tiles and lino (sensitive floors)	Wet scrubbing/basic cleaning of synthetic or non sensitive floors pvc	Crystallizing	Carpet shampooing	Sanding wood	Sanding cement	Spray cleaning	Spray polishing and buffing
<b>Brushes</b>												
 Carpet brush	0.955.0013	SDM 35G						x				
Carpet brush	0.955.0014	SDM 45G						x				
Carpet brush	0.955.0020	SDM 53G						x				
 Scrubbing brush PP 0,6 mm	0.955.0006	SDM 35G		x	x							
Scrubbing brush PP 0,6 mm	0.955.0007	SDM 45G		x	x							
Scrubbing brush PP 0,6 mm	0.955.0008	SDM 53G		x	x							
 Tynex brush	0.955.0003	SDM 35G	x			x						
Tynex brush	0.955.0004	SDM 45G	x			x						
Tynex brush	0.955.0005	SDM 53G	x			x						
<b>Pad Holder</b>												
 EWU pad holder	0.955.0015	SDM 35G	x	x	x	x					x	
EWU pad holder	0.955.0016	SDM 45G	x	x	x	x	x			x	x	
EWU pad holder	0.955.0021	SDM 53G	x	x	x	x	x				x	
EWU pad holder	0.955.0017	SDM 45G 40-160									x	x
 Abrasive Disc Holder	0.955.0022	SDM 45G							x	x		
<b>Special Disc</b>												
 Carborandum disc	0.955.0027	SDM 45G									x	
<b>Pads</b>												
 Pad micro fiber 5 pcs	6.508.0115	SDM 35G						x				
Pad micro fiber 2 pcs	6.508.0116	SDM 45G						x				
Pad beige 5 pcs	6.508.0032	SDM 45 G 40-160										x
Pad cream 5 pcs	0.955.0018	SDM 43B 100-160										x
Pad cream 5 pcs	0.955.0019	SDM 48B 150-130										x
Pad red 5 pcs	6.508.0117	SDM 35G			x						x	
Pad red 5 pcs	6.508.0118	SDM 45G			x						x	
Pad red 5 pcs	6.508.0119	SDM 53G			x						x	
Pad green 5 pcs	6.508.0037	SDM 35G		x		x						
Pad green 5 pcs	6.508.0039	SDM 45G		x		x						
Pad green 5 pcs	6.508.0120	SDM 53G		x		x						
Pad black 5 pcs	6.508.0044	SDM 35G	x									
Pad black 5 pcs	6.508.0046	SDM 45G	x									
Pad black 5 pcs	6.508.0123	SDM 53G	x									
Pad silver Inox 5 pcs	6.508.0121	SDM 45G					x					
Pad silver Inox 5 pcs	6.508.0122	SDM 53G					x					
Emery paper GR24 disc	0.955.0023	SDM 45G							x			
Emery paper GR60 disc	0.955.0024	SDM 45G							x			
Vidia disc GR24	0.955.0026	SDM 45G								x		
Vidia disc GR36	0.955.0025	SDM 45G								x		

X = suitable



## Accessories

				Stripping synthetic floor (PVC)	Stripping cork present floor (linoleum)	Wet-scrubbing/basic cleaning of stones, tiles and lino (sensitive floors)	Wet-scrubbing/basic cleaning of synthetic or non-sensitive floors (PVC)	Crystallizing	Carpet shampooing	Sanding wood	Sanding cement	Spray cleaning	Spray polishing and buffing	
<b>Chemical tank</b> 	0.955.0001	SDM 35G 18-55		○	○	○	○		○					
		SDM 45G 15-100		○	○	○	○		○					
		SDM 45G 15-130		○	○	○	○		○					
		SDM 45G 15-160		○	○	○	○		○					
		SDM 53G 15-160		○	○	○	○		○					
		SDM 45G 15-220		○	○	○	○		○					
<b>Spray system</b> 	0.955.0002	SDM 35G 18-55						○				○		
		SDM 45G 15-100							○				○	
		SDM 45G 15-130							○				○	
		SDM 45G 15-160							○					
		SDM 53G 15-160							○					
		SDM 45G 15-220							○					
		SDM 45G 40-160											○	○
		SDM 43B 100-160												○
		SDM 48B 150-130												○
<b>Detergent</b> 	LCN-800F	3.697.0023	4 X 5 litres	•	•	•	•							
	LCN-800	3.697.0024	4 X 5 litres	•	•	•	•							
	LCB-740F	3.697.0031	4 X 5 litres			•								
	LCB-900WR	3.697.0030	4 X 5 litres	•										
	LCN-600SVF	3.697.0033	4 X 5 litres	•		•	•							
	LCN-700	3.697.0035	4 X 5 litres						•					
	LCN-680AL	3.697.0025	4 X 5 litres			•						•	•	
	LCN-650	3.697.0026	4 X 5 litres				•					•		
	LCN-640WM	3.697.0027	4 X 5 litres									•	•	

S = standard equipment    ○ = optional    • = available



**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 decrease 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.

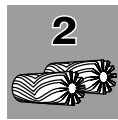
Battery autonomy changes depending on type of surface, dirt quantity, brush type and way in which traction system is used (speed and slope).

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

Manufacturing technology diversifies numbers of cycles, service needed, use/charge conditions and performances.



**• Number of disc brushes:**  
The scrubbing group meets different cleaning path need with 1, 2 or 3 disc brushes.



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

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



**• Disk brush quick connection and release:** This system allows the automatic connection of the disc brush and a quick release toolless.



**• 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.



**• Equal cleaning:**  
Our two discs scrubbing groups have a belt (and reduction gear with a quick release elastic joint) transmission that further to prevent vibrations, they grant the same brush rotation speed (so the same cleaning effect on the two sides) in any dirt or floor condition.



**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.



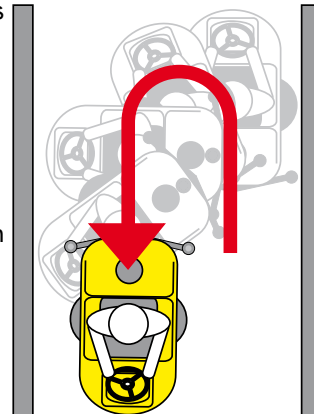
**• Vacuum motor protection**  
To avoid dampness problem in the collection tank, our scrubber driers have: antifoam devices, filters, decantation rooms, and liquids level sensors (stopping the machine when the higher limit is reached). All these precautions grant the best efficiency and components longer life.



**• 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.



**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.

### Nomenclature

SCL= Scrubber Drier

model

# SCL Easy R 45 BT

R= Restyling

scrubbing width

E = ELECTRIC

B = BATTERY

BT = BATTERY with TRACTION

CS = Scrubbing and Sweeping unit



Code	Model	Page	Power supply	Brushes	Scrubbing width	Squeegee width	Max working capacity	Detergent tank capacity	Recovery tank capacity	Packaging	Weight	Weight	pcs x pallet
			V	n°	mm	mm	m <sup>2</sup> /h - ft <sup>2</sup> /h	l/gal	l/gal	L x l x H cm / inc	kg	lbs	n°
8.501.0501	SPRINTER	140	230V/50HZ	1	290	320	1015-10925	2,8/0,74	5,6/1,48	116x40x36 / 46x16x14	19	42	10
8.511.0001	MULTIMATIC 35E	141	230V/50HZ	1	350	420	1225-13185	15/3,97	16/4,23	72x47x62 / 29x18x24	41,4	91	6
8.518.0004	QUICK 36E	142	230V/50HZ	1	360	460	1260-13562	11/2,91	12/3,17	81x56x80 / 32x22x32	46	101	1
8.518.0003	QUICK 36B	142	12V	1	360	460	1260-13562	11/2,91	12/3,17	81x56x80 / 32x22x32	65	143	1
8.515.3300	FREE 45E	143	230V/50HZ	1	450	800	1800-19375	44/11,63	50/13,21	121x58x121/48x23x48	94	207	1
8.515.3302	FREE 50E	143	230V/50HZ	1	500	800	2000-21527	44/11,63	50/13,21	121x58x121/48x23x48	96	211	1
8.515.0305	FREE 45B	143	24V	1	450	800	1800-19375	44/11,63	50/13,21	121x58x121/48x23x48	99	218	1
8.515.0310	FREE 50B	143	24V	1	500	800	2000-21527	44/11,63	50/13,21	121x58x121/48x23x48	101	222	1
8.515.0309	FREE 45BT	143	24V	1	450	800	1800-19375	44/11,63	50/13,21	121x58x121/48x23x48	100	220	1
8.515.0311	FREE 50BT	143	24V	1	500	800	2000-21527	44/11,63	50/13,21	121x58x121/48x23x48	102	224	1
8.516.0303	EASY-R 45BT	144	24V	1	450	800	2025-21796	67/17,70	77/20,35	143x76x127/56x30x50	125	275	1
8.516.0306	EASY-R 50BT	144	24V	1	500	800	2250-24218	67/17,70	77/20,35	143x76x127/56x30x50	128	282	1







Comfort S-R

Comfort S-R CS

Comfort M

Comfort L




Code	Model	Page	Power supply	Brushes	Scrubbing width	Squeegee width	Max working capacity	Detergent tank capacity	Recovery tank capacity	Packaging	Weight	Weight	pcs x pallet
			V	n°	mm	mm	m <sup>2</sup> /h - ft <sup>2</sup> /h	l/gal	l/gal	L x l x H cm / inc	kg	lbs	n°
8.516.0307	EASY-R 55BT	144	24V	2	550	800	2475-26640	67/17,70	77/20,35	143x76x127 / 56x30x50	131	289	1
8.516.0315	EASY-R 66BT	144	24V	2	660	800	2970-31968	67/17,70	77/20,35	143x76x127 / 56x30x50	140	308	1
8.517.0102	MIDI-R 66BT	145	24V	2	660	900	3762-40493	88/23,25	91/24,04	156x82x128 / 61x33x51	183	403	1
8.517.0105	MIDI-R 75BT	145	24V	2	750	900	4275-46015	88/23,25	91/24,04	156x82x128 / 61x33x51	183	403	1
8.574.0001	COMFORT XS 75	146	24V	2	750	900	3750-40364	110/29,06	130/34,35	152x97x147 / 60x38x58	204	450	1
8.575.0002	COMFORT S-R 66	147	24V	2	660	900	4620-49729	140/36,99	150/39,63	200x118x171 / 79x46x67	325	716	1
8.575.0001	COMFORT S-R 82	147	24V	2	820	1000	5740-61784	140/36,99	150/39,63	200x118x171 / 79x46x67	345	760	1
8.575.0005	COMFORT S-R 75 CS	148	24V	2	750	1000	5250-56510	140/36,99	150/39,63	200x118x171 / 79x46x67	410	904	1
8.578.0003	COMFORT M87	149	36V	2	870	1110	6090-65552	200/52,84	210/55,48	200x118x171 / 79x46x67	432	952	1
8.578.0004	COMFORT M102	149	36V	2	1020	1250	7140-76854	200/52,84	210/55,48	200x118x171 / 79x46x67	462	1018	1
8.572.0001	COMFORT L102	150	36V	2	1020	1250	7140-76854	280/73,97	315/83,22	230x135x181 / 91x53x71	585	1289	1
8.572.0002	COMFORT L122	150	36V	3	1220	1450	8540-91923	280/73,97	315/83,22	230x135x181 / 91x53x71	635	1400	1



### Sprinter



#### Standard accessories:

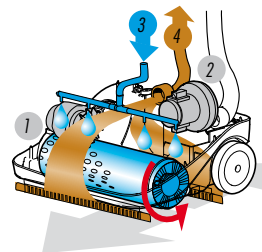
- 6.505.0002 PP brush ø100 
- 6.505.0001 Squeegee 
- 5.509.0007 Stationary plate 
- 4.012.0154 Main electric cable 7 m
- 0.010.0012 4 x ml 100 concentrated detergent



- Min working height required 200 mm



- Double squeegee for both forward and reverse washing



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

#### Optional:

- Carpet tool cod. 6.505.0009



- Concentrated detergent 64 x 100 ml cod. 0.010.0014



#### SPRINTER

code	8.501.0501
power supply	230V / 50HZ
scrubbing / squeegee width	290 / 320 mm
max working capacity	1015 m <sup>2</sup> /h
detergent 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	200W
dB (A)	68
depression / vacuum motor	1428 mmH <sub>2</sub> O/800W
dimensions / weight	37x35x113cm/13kg

### SCL Multimatic



Reclining handle with control switches

Removable recovery tank

Detergent solution tank





Brush pressure regulation

Detergent solution regulation

External tool connection



#### Standard accessories:

- 4.508.0080 PP brush ø100 
- 5.509.0108 Squeegee 
- 5.509.0017 Carpet tool without hole 
- 5.509.0038 Carpet tool with hole 



- Recovery tank easy emptying





- Quick lock/unlock tool free brush



- Drying effect

#### Optional:

- 4.512.0068 extension electric cable 15 m with schuko plug
- 4.508.0082 Tynex brush ø100 
- 4.508.0081 Soft brush ø100 
- 5.511.0532 injection-extraction tool kit

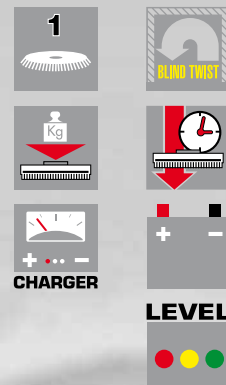


#### MULTIMATIC 35E







code	8.511.0001
power supply	230V / 50HZ
scrubbing / squeegee width	350 / 420 mm
max working capacity	1225 m <sup>2</sup> /h
detergent tank capacity	15 l
recovery tank capacity	16 / 17 l
traction	mechanical
RPM / pressure on the brushes	700 / 19 kg / 42 lbs
brush motor power	600W
detergent solution system	mechanical/by-pass
depression / vacuum motor	1570 mmH <sub>2</sub> O/950W
dimensions / weight	129x43x125cm/36kg



### SCL Quick 36



#### Standard accessories:

- 5.511.1346 PP brush 
- 4.508.1040 Front squeegee strip 
- 4.508.1041 Rear squeegee strip 
- 0.107.0050 Battery 12V - 55A C20 
- 0.108.0045 Battery charger 12V - 6A 
- 0.108.0025 EU plug battery charger cable 1,5 m 



- Compact reclining handle






- Battery (36B) and electric (36E) version available.
- Easy access and simple service of the components



- Detergent solution selection (automatic start-stop with solenoid valve)
- Lifting squee-gee system.

#### Optional:

- 4.512.0068 extension electric cable 15 m with shuko plug
- 5.511.1411 Soft brush 
- 5.511.1412 Moderate abrasive brush 
- 5.511.1413 Abrasive brush 



Pad holder



Pad

	QUICK 36E	QUICK 36B
code	8.518.0004	8.518.0003
power supply	230V / 50Hz	12V
scrubbing / squeegee width	360 / 460 mm	360 / 460 mm
max working capacity	1260 m <sup>2</sup> /h	1260 m <sup>2</sup> /h
detergent 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	150 / 18 kg / 40 lbs
brush motor power	370W	250W
detergent solution system	mech./solenoid valve	mech./solenoid valve
depression / vacuum motor	850 mmH <sub>2</sub> O/400W	650 mmH <sub>2</sub> O/250W
dimensions / weight	120x43x97cm / 38kg	120x43x97cm / 38kg + 19kg battery



### SCL Compact Free



**Standard accessories:**

- PP brush
- Squeegee strip
- 2 x 0.107.0030 Battery 12V - 110A C20
- 0.108.0042 Battery charger 220/240V-24V-12A
- 0.108.0025 EU plug cable battery charger

- High performances in all floor type with "V" squeegee

- Easy access and simple service of the components

- Detergent solution regulation

**Optional:**

Version without Gel battery on request:

- 8.515.1305 Free 45B
- 8.515.1310 Free 50B
- 8.515.1309 Free 45BT
- 8.515.1311 Free 50BT



- brushes
- pad holder
- Pad

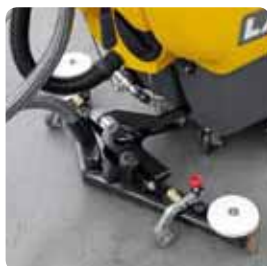
	FREE 45E	FREE 50E	FREE 45B	FREE 50B	FREE 45BT	FREE 50BT
code	8.515.3300	8.515.3302	8.515.0305	8.515.0310	8.515.0309	8.515.0311
power supply	230V	230V	24V	24V	24V	24V
scrubbing / squeegee width	450 / 800 mm	500 / 800 mm	450 / 800 mm	500 / 800 mm	450 / 800 mm	500 / 800 mm
max working capacity	1800 m <sup>2</sup> /h	2000 m <sup>2</sup> /h	1800 m <sup>2</sup> /h	2000 m <sup>2</sup> /h	1800 m <sup>2</sup> /h	2000 m <sup>2</sup> /h
detergent 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	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	50-60 l / 13,21-16 gal
traction	mechanical	mechanical	mechanical	mechanical	automatic	automatic
RPM / pressure on the brushes	150/18 kg / 39,69 lbs	150/20 kg / 44,10 lbs	150/18 kg / 39,69 lbs	150/20 kg / 44,10 lbs	150/18 kg / 39,69 lbs	150/20 kg / 44,10 lbs
brush motor power	550W	550W	250W	250W	250W	250W
detergent solution system	mechanical/manual	mechanical/manual	mechanical/manual	mechanical/manual	mechanical/manual	mechanical/manual
depression / vacuum motor	1700mmH <sub>2</sub> O/1000W	1700mmH <sub>2</sub> O/1000W	1280mmH <sub>2</sub> O/480W	1280mmH <sub>2</sub> O/480W	1280mmH <sub>2</sub> O/480W	1280mmH <sub>2</sub> O/480W
dimensions / weight	116x46x98cm / 80kg	116x51x98cm / 82kg	116x46x98cm / 85kg	116x51x98cm / 87kg	116x46x98cm / 86kg	116x51x98cm / 88kg

### SCL Easy-R



#### Standard accessories:

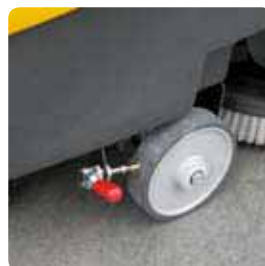
- PP brushes 
- Squeegee strip 



- Easy squeegee regulation without tools.
- Movable squeegee shock-proof.



- User friendly control panel: forward speed setting, scrubbing and vacuuming selectors, battery charge indicator, traction direction indicator, key main switch



- Direct brake on the wheel.
- Traceless wheels.

#### Optional:

6.505.0012 high grip wheels



Brushes



Pad holder



Pad



Batteries

	EASY-R 45BT	EASY-R 50BT	EASY-R 55 BT	EASY-R 66 BT
code	8.516.0303	8.516.0306	8.516.0307	8.516.0315
power supply	24V	24V	24V	24V
scrubbing / squeegee width	450 / 800 mm	500 / 800 mm	550 / 800 mm	660 / 800 mm
max speed / working capacity	4,5 km/h - 2025 m <sup>2</sup> /h	4,5 km/h - 2250 m <sup>2</sup> /h	4,5 km/h - 2475 m <sup>2</sup> /h	4,5 km/h - 2970 m <sup>2</sup> /h
detergent tank capacity	67 l / 17,70 gal	67 l / 17,70 gal	67 l / 17,70 gal	67 l / 17,70 gal
recovery tank capacity	77-95 l / 20,35-25 gal	77-95 l / 20,35-25 gal	77-95 l / 20,35-25 gal	77-95 l / 20,35-25 gal
traction motor	automatic / 200W	automatic / 200W	automatic / 200W	automatic / 200W
RPM - pressure on the brushes	150 - 35 kg/77,16 lbs	150 - 37 kg/81,57 lbs	150 - 43,5 kg/95,9 lbs	150 - 43,5 kg/95,9 lbs
brush motor power	600W	600W	600W	600W
detergent solution system	mech./solenoid valve	mech./solenoid valve	mech./solenoid valve	mech./solenoid valve
depression / vacuum motor	1280mmH <sub>2</sub> O / 480W	1280mmH <sub>2</sub> O / 480W	1280mmH <sub>2</sub> O / 480W	1280mmH <sub>2</sub> O / 480W
dimensions / weight	129x56x102cm/94kg	132x56x102cm/97kg	132x61x102cm/100kg	132x73x102cm/109kg

### SCL Midi-R



**Standard accessories:**

- PP brushes
- Squeegee strip

- Detergent solution filter.
- Emptying out cap for detergent solution.

- User friendly control panel: forward speed setting, scrubbing and vacuuming selectors, battery charge indicator, traction direction indicator, key main switch

- Easy access to battery without tools.

**Optional:**

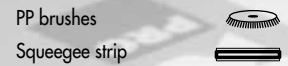
- Brushes
- Pad holder
- Pad
- Batteries
- 0.108.0002 Battery charger

	MIDI-R 66BT	MIDI-R 75BT
code	8.517.0102	8.517.0105
power supply	24V	24V
scrubbing / squeegee width	660 / 900 mm	750 / 900 mm
max speed / working capacity	5,7 km/h - 3762 m <sup>2</sup> /h	5,7 km/h - 4275 m <sup>2</sup> /h
detergent tank capacity	88 l / 23,25 gal	88 l / 23,25 gal
recovery tank capacity	91-95 l / 24,04-25 gal	91-95 l / 24,04-25 gal
traction motor	automatic / 300W	automatic / 300W
RPM - pressure on the brushes	150 - 43,5kg/95,9lb	150 - 43,5kg/95,9lb
brush motor power	1000W	1000W
detergent solution system	mech./solenoid valve	mech./solenoid valve
depression / vacuum motor	1733mmH <sub>2</sub> O / 550W	1733mmH <sub>2</sub> O / 550W
dimensions / weight	133x73x117cm/153kg	133x80x117cm/153kg

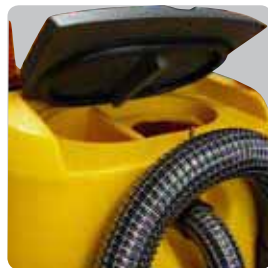
### SCL Comfort XS 75



#### Standard accessories:



- Dedicated batteries space.



- Cover and filter for recovery tank.
- Antifoam device.



- User friendly control panel with automatic device for squeegee lifting while reverse going.

#### Optional:



#### COMFORT XS 75

code	8.574.0001
power supply	24V
scrubbing / squeegee width	750 / 900 mm
max speed / working capacity	5 km/h - 3750 m <sup>2</sup> /h
detergent tank capacity	110 l / 29,06 gal
recovery tank capacity	130-155l/34,35-41 gal
traction motor	front wheel / 600W
RPM - pressure on the brushes	150 - 50 kg/110lb
brush motor power	1000W
max gradient empty / full tank	13 / 10%
depression / vacuum motor	1734mmH <sub>2</sub> O / 480W
dimensions / weight	146x81x138cm/168kg



### SCL Comfort S-R



Control panel features:

- 2 (brush speed)
- BLIND TWIST (directional control)
- Kg (weight control)
- 001 h (timer)
- RPM (brush speed)
- STOP LEVEL (stop indicator)

**Standard accessories:**

- PP brushes
- Squeegee strip



- Automatic device for squeegee lifting while reverse going.



- Detergent solution tank provided with large opening protected by quick locking cap.



- Recovery tank control window for cleaning and easy ordinary maintenance.

#### Optional:

- Brushes
- Pad holder
- Pad
- Tube batteries
- Gel batteries
- 0.108.0003 Battery charger + Smartcard

#### COMFORT S-R 66

#### COMFORT S-R 82

	COMFORT S-R 66	COMFORT S-R 82
code	8.575.0002	8.575.0001
power supply	24V	24V
scrubbing / squeegee width	660 / 900 mm	820 / 1000 mm
max speed / working capacity	7 km/h - 4620m <sup>2</sup> /h	7 km/h - 5740m <sup>2</sup> /h
detergent tank capacity	140 l / 36,99 gal	140 l / 36,99 gal
recovery tank capacity	150-180l/39,6-47,6gal	150-180l/39,6-47,6gal
traction motor	front wheel / 900W	front wheel / 900W
RPM - pressure on the brushes	150 - 60 kg/132lb	150 - 80 kg/176lb
brush motor power	1000W	1000W
max gradient empty / full tank	10 / 7%	10 / 7%
depression / vacuum motor	1734mmH <sub>2</sub> O / 550W	1734mmH <sub>2</sub> O / 550W
dimensions / weight	175x77x149cm/238kg	175x93x149cm/258kg

### SCL Comfort S-R 75 CS

Inspection window

Recovery tank

Detergent solution tank

Stainless Steel  
scrubbing and sweeping unit

User friendly  
control panel

Detergent solution  
regulator

Advancement pedal

Front traction wheel



#### Standard accessories:

3.602.0056

Rear brush  
PP ø150 mm - sp 0,5 mm



3.602.0057

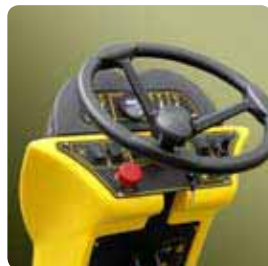
Front brush  
PP ø150 mm - sp 0,7 mm



Squeegee strip



- S/S brushes group, extremely durable and easy maintenance.



- Easy access to electrical components.



- Recovery tank control window for cleaning and easy ordinary maintenance.

#### Optional:



Tube batteries  
Gel batteries



0.108.0003  
Battery charger  
+ Smartcard



3.099.1464  
Flexible hose pipe fill  
& rinse tank 3 m

#### COMFORT S-R 75CS

code	8.575.0005
power supply	24V
scrubbing / squeegee width	750 / 1000 mm
max speed / working capacity	7 km/h - 5250m <sup>2</sup> /h
detergent tank capacity	140 l / 36,99 gal
recovery tank capacity	150-180l/39,6-47,6gal
traction motor	front wheel / 900W
RPM - pressure on the brushes	730 - 50 kg/110lb
brush motor power	2x 750W
max gradient empty / full tank	10 / 7%
depression / vacuum motor	1734mmH <sub>2</sub> O / 550W
dimensions / weight	175x93x149cm/323kg

## SCL Comfort M



**Standard accessories:**

- PP brushes
- Squeegee strip



- Detergent solution tank with large opening protected by quick locking cap.



- Self levelling brushes.



- Large tank capacity and high performance batteries reduce stop machine.

### Optional:



Brushes



Pad holder



Pad



Tube batteries  
Gel batteries



0.108.0003  
Battery charger  
+ Smartcard

### COMFORT M87

### COMFORT M102

code	8.578.0003	8.578.0004
power supply	36V	36V
scrubbing / squeegee width	870 / 1110 mm	1020 / 1250 mm
max speed / working capacity	7 km/h - 6090m <sup>2</sup> /h	7 km/h - 7140m <sup>2</sup> /h
detergent tank capacity	200 l / 52,84 gal	200 l / 52,84 gal
recovery tank capacity	210-240l/55,5-63,4gal	210-240l/55,5-63,4gal
traction motor	front wheel / 900W	front wheel / 900W
RPM - pressure on the brushes	150 - 90 kg/198lb	150 - 120 kg/264lb
brush motor power	1500W	1500W
max gradient empty / full tank	10 / 8%	10 / 8%
depression / vacuum motor	1800mmH <sub>2</sub> O / 600W	1800mmH <sub>2</sub> O / 600W
dimensions / weight	190x96x145cm/345kg	190x112x145cm/375kg



### SCL Comfort L



**Standard accessories:**

PP brushes  
Squeegee strip



- Detergent solution tank with large opening protected by quick locking cap.



- User friendly control panel
- Detergent solution regulator
- Automatic device for squeegee lifting while reverse going.



- Easy access to electrical components.
- 3 wheel-drives for tight steering radius.

#### Optional:

- Brushes
- Pad holder
- Pad
- Tube batteries
- Gel batteries
- 0.108.0003 Battery charger + Smartcard

#### COMFORT L102

#### COMFORT L122

code	8.572.0001	8.572.0002
power supply	36V	36V
scrubbing / squeegee width	1020 / 1250 mm	1220 / 1450 mm
max speed / working capacity	7 km/h - 7140m <sup>2</sup> /h	7 km/h - 8540m <sup>2</sup> /h
detergent tank capacity	280 l / 73,97 gal	280 l / 73,97 gal
recovery tank capacity	315-340l/83,2-89,8gal	315-340l/83,2-89,8gal
traction motor	on 3 wheels/3x600W	on 3 wheels/3x600W
RPM - pressure on the brushes	150 - 120 kg/264lb	150 - 170 kg/374lb
brush motor power	1500W	3x 1000W
max gradient empty / full tank	15 / 14%	15 / 14%
depression / vacuum motor	1800mmH <sub>2</sub> O / 600W	1800mmH <sub>2</sub> O / 600W
dimensions / weight	222x112x169cm/535kg	222x128x169cm/585kg





## Brushes

		Sprinter	Multimatic 35E	Quick 36E	Quick 36B	Compact Free 45E	Compact Free 45B / 45BT	Compact Free 50E	Compact Free 50B / 50BT	Easy-R 45BT	Easy-R 50BT	Easy-R 55BT*	Easy-R 66BT*	Midi-R 66BT*	Midi-R 75BT*	Comfort X575*	Comfort S-R 66*	Comfort S-R 82*	Comfort S-R 75CS*	Comfort M87*	Comfort M102*	Comfort L102*	Comfort L122**	
6.505.0002	roller brush PP Ø 100/290 mm sec. 0,4	S																						
6.505.0009	roller brush soft type Ø 100/290 mm sec. 0,12 with carpet tool	O																						
3.602.0056	roller brush PP Ø 150/680 mm sec. 0,5 rear position																			S				
3.602.0057	roller brush PP Ø 150/680 mm sec. 0,7 front position																			S				
4.508.0080	roller brush PP Ø 100/350 mm sec. 0,3	S																						
4.508.0081	roller brush soft type Ø 100/350 mm	O																						
4.508.0082	roller brush abrasive type Ø 100/350 mm	O																						
5.511.1101	disc brush PP Ø 275 / 10.5"										S													
5.511.1105	disc brush PP Ø 330 / 13"											S	S				S							
5.511.1168	disc brush PP Ø 356 / 14"													S	S									
5.511.1346	disc brush PP Ø 360 / 14"		S	S																				
5.511.1411	disc brush PP Ø 360 / 14" sec. 0,3 soft type		O	O																				
5.511.1412	disc brush PES Ø 360 / 14" moderate abrasive type		O	O																				
5.511.1413	disc brush TYNEX Ø 360 / 14" high abrasive type		O	O																				
5.511.1109	disc brush PP Ø 406 / 16"																S						S	
5.511.1093	disc brush PP Ø 431 / 17"				S	S			S											S				
5.511.1097	disc brush PP Ø 483 / 19"					S	S	S													S	S		
5.511.1102	disc brush Ø 265 / 10.5" abrasive type									O														
5.511.1106	disc brush Ø 330 / 13" abrasive type										O	O					O							
5.511.1246	disc brush Ø 356 / 14" abrasive type												O	O										
5.511.1110	disc brush Ø 406 / 16" abrasive type																O						O	
5.511.1094	disc brush Ø 431 / 17" abrasive type				O	O		O												O				
5.511.1098	disc brush Ø 483 / 19" abrasive type						O	O	O												O	O		



## Pad holder

5.511.1103	EWU Ø 275 / 10.5"										O													
5.511.1107	EWU Ø 330 / 13"											O	O				O							
5.511.1129	EWU Ø 356 / 14"		O	O										O	O									
5.511.1111	EWU Ø 406 / 16"																	O					O	
5.511.1095	EWU Ø 431 / 17"				O	O			O												O			
5.511.1099	EWU Ø 483 / 19"						O	O	O													O	O	
6.508.0050	pad locker for pad holder		O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

S = standard equipment  
O = optional

\* = double brush  
\*\* = triple brush



### Abrasive pad for pad holder

		Sprinter	Multimatic 35E	Quick 36E	Quick 36B	Compact Free 45E	Compact Free 45B / 45BT	Compact Free 50E	Compact Free 50B / 50BT	Easy-R 45BT	Easy-R 50BT	Easy-R 55BT*	Easy-R 66BT*	Midi-R 66BT*	Midi-R 75BT*	Comfort X575*	Comfort S-R 66*	Comfort S-R 82*	Comfort S-R 75CS*	Comfort M87*	Comfort M102*	Comfort L102*	Comfort L122**	
6.508.0095	beige - (10 pz) Ø 280 mm/11"											○												
6.508.0030	beige - (5 pz) Ø 340 mm/13,5"												○	○			○							
6.508.0108	beige - (5 pz) Ø 356 mm/14"			○	○										○	○								
6.508.0031	beige - (5 pz) Ø 406 mm/16"																	○					○	
6.508.0032	beige - (5 pz) Ø 431 mm/17"					○	○			○											○			
6.508.0034	beige - (5 pz) Ø 483 mm/19"							○	○	○												○	○	
6.508.0096	green - (10 pz) Ø 280 mm/11"											○												
6.508.0037	green - (5 pz) Ø 340 mm/13,5"												○	○			○							
6.508.0109	green - (5 pz) Ø 356 mm/14"			○	○											○	○							
6.508.0038	green - (5 pz) Ø 406 mm/16"																	○					○	
6.508.0039	green - (5 pz) Ø 431 mm/17"					○	○			○											○			
6.508.0041	green - (5 pz) Ø 483 mm/19"							○	○	○												○	○	
6.508.0097	black - (10 pz) Ø 280 mm/11"											○												
6.508.0044	black - (5 pz) Ø 340 mm/13,5"												○	○			○							
6.508.0110	black - (5 pz) Ø 356 mm/14"			○	○											○	○							
6.508.0045	black - (5 pz) Ø 406 mm/16"																	○					○	
6.508.0046	black - (5 pz) Ø 431 mm/17"					○	○			○											○			
6.508.0048	black - (5 pz) Ø 483 mm/19"							○	○	○												○	○	

S = standard equipment  
○ = optional

\* = double brush  
\*\* = triple brush



### Squeegee strip

		Sprinter	Multimatic 35E	Quick 36E	Quick 36B	Compact Free 45E	Compact Free 45B / 45BT	Compact Free 50E	Compact Free 50B / 50BT	Easy-R 45BT	Easy-R 50BT	Easy-R 55BT*	Easy-R 66BT*	Midi-R 66BT*	Midi-R 79BT*	Comfort X575*	Comfort S-R 66*	Comfort S-R 82*	Comfort S-R 75CS*	Comfort M87*	Comfort M102*	Comfort L102*	Comfort L122**
6.505.0001	front and rear squeegee strip kit	S																					
4.508.0949	front or rear type		S																				
4.508.1040	front mm 537x2,5			S	S																		
4.508.1041	rear mm 590x3			S	S																		
4.508.0468	front mm 830x3					S	S	S	S	S	S	S	S										
4.508.0467	rear mm 870x4					S	S	S	S	S	S	S	S										
4.508.0646	front mm 925x4													S	S	S	S						
4.508.0605	rear mm 950x5													S	S	S	S						
4.508.1196	front mm 1027x3																	S	S				
4.508.1195	rear mm 1150x4																	S	S				
4.508.0215	front mm 1110x4																			S			
4.508.0214	rear mm 1185x6																			S			
4.508.0217	front mm 1270x4																				S	S	
4.508.0216	rear mm 1345x6																				S	S	
4.508.0219	front mm 1500x4																						S
4.508.0218	rear mm 1580x6																						S
4.508.1058	front mm 537x2,5 PUR oil proof			O	O																		
4.508.1059	rear mm 590x3 PUR oil proof			O	O																		
4.508.1178	front mm 830x3 40sh PUR oil proof					O	O	O	O	O	O	O	O										
4.508.1177	rear mm 870x4 40sh PUR oil proof					O	O	O	O	O	O	O	O										
4.508.0901	front mm 925x4 40sh PUR oil proof													O	O	O	O						
4.508.0900	rear mm 950x5 40sh PUR oil proof													O	O	O	O						
4.508.1251	front mm 1027x3 PUR oil proof																	O	O				
4.508.1252	rear mm 1150x4 PUR oil proof																	O	O				
4.508.1166	front mm 1110x4 PUR oil proof																			O			
4.508.1165	rear mm 1185x6 PUR oil proof																			O			
4.508.1167	front mm 1270x4 33sh PUR oil proof																				O	O	
4.508.0897	rear mm 1345x6 33sh PUR oil proof																				O	O	
4.508.1169	front mm 1500x4 PUR oil proof																						O
4.508.1168	rear mm 1580x6 PUR oil proof																						O

### Accessories

0.010.0014	concentrated floor detergent (64 pieces x 100ml)	O																					
5.509.0007	stationary plate with brushes protection system	S																					
5.509.0017	carpet tool without hole		S																				
5.509.0038	carpet tool with hole		S																				
5.511.0532	injection/extraction tool kit		O																				
5.509.0310	flexible pipe front connection		O																				
3.754.0007	floor tool Ø 37mm - cm 25		O																				
3.754.0008	floor tool Ø 37 - cm 10		O																				
3.753.0005	extension pipe 0,50 m Ø 37		O																				
5.511.1408	front lifter kit protection soft bristle			O	O																		
6.505.0012	"high grip" wheels kit mm160x45								O	O	O	O											
4.512.0068	extension electric cable m 15 (mm3x1,5) EUR schuko	O	O	O		O	O																
6.505.0016	solenoid valve kit					O	O																
3.099.1464	flexible hose pipe "fill & rinse" tank mm3000	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

S = standard equipment O = optional



### Batteries

		Sprinter	Multimatic 35E	Quick 36E	Quick 36B	Compact Free 45E	Compact Free 45B / 45BT	Compact Free 50E	Compact Free 50B / 50BT	Easy-R 45BT	Easy-R 50BT	Easy-R 55BT*	Easy-R 66BT*	Mid-R 66BT*	Mid-R 75BT*	Comfort X575*	Comfort S-R 66*	Comfort S-R 82*	Comfort S-R 75CS*	Comfort M87*	Comfort M102*	Comfort L102*	Comfort L122**
6.505.0037	Spiralcell battery 12V - 52Ah C5 - 55Ah C20 with quick connection			S																			
0.107.0030	Gel battery 12V - 110Ah C20 M6 F					S(2)		S(2)															
0.107.0002	Tube battery 12V - 118Ah C5 - 157Ah C20					O(2)		O(2)	O(2)	O(2)	O(2)	O(2)											
0.107.0032	Gel battery 12V-110Ah C5-M6F(1x0.107.0031 each battery is necessary)									O(2)	O(2)	O(2)	O(2)										
0.107.0031	battery poles kit M6 M (+ -)									O(2)	O(2)	O(2)	O(2)										
0.107.0004	Tube battery 6V - 180Ah C5 - 240Ah C20													O(4)	O(4)	O(4)							
0.107.0033	Gel battery 6V-180Ah C5 M8 F(1x0.107.0047 each battery is necessary)													O(4)	O(4)	O(4)							
0.107.0047	battery poles kit M8 M (+ -)													O(4)	O(4)	O(4)							
0.107.0034	Tube battery 6V - 240Ah C5															O(4)							
0.107.0008	Tube battery in tray 24V - 525Ah C5																O(1)	O(1)	O(1)				
0.107.0009	Tube battery in tray 36V - 360Ah C5																			O(1)	O(1)		
0.107.0010	Tube battery in tray 36V - 525Ah C5																				O(1)	O(1)	
0.107.0011	Gel battery in tray 24V - 400Ah C5																O(1)	O(1)	O(1)				
0.107.0012	Gel battery in tray 36V - 320Ah C5																			O(1)	O(1)		
0.107.0013	Gel battery in tray 36V - 400Ah C5																					O(1)	O(1)

S = standard equipment

O = optional

(1) = n° battery

### Battery charger:

Battery chargers are supplied already preset if requested together with batteries.

If the charger is ordered alone, it is necessary to specify the setting desired.

Before first recharging procedure is always important to check the proper setting of the charger.

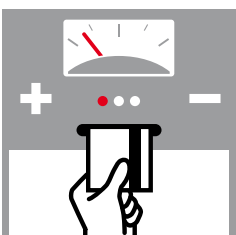




## Battery charger

		Sprinter	Multimatic 35E	Quick 36E	Quick 36B	Compact Free 45E	Compact Free 45B / 45BT	Compact Free 50E	Compact Free 50B / 50BT	Easy-R 45BT	Easy-R 50BT	Easy-R 55BT*	Easy-R 66BT*	Midi-R 66BT*	Midi-R 79BT*	Comfort X575*	Comfort S-R 66*	Comfort S-R 82*	Comfort S-R 75CS*	Comfort M87*	Comfort M102*	Comfort L102*	Comfort L122**
0.108.0045	on board 12V - 6A				S																		
0.108.0051	separate booster charger kit 12V - 30A			O																			
0.108.0042	LWS 5 - 220/240V - 24V - 12A without plug					S	S																
0.108.0024	LWS 5 - 100/120V - 24V - 12A without plug					O	O																
5.511.1494	on board 24V - 12A									O	O	O	O										
5.511.1495	on board 24V - 25A													O	O								
0.108.0001	LWS 1 - 12/24V - 12A									O	O	O	O										
0.108.0002	LWS 2 - 12/24V - 25A													O	O	O							
0.108.0003	LWS 2 - 24/36V - 60A																O	O	O	O	O	O	O
0.108.0006	24V - 60 A tube battery smartcard																O	O	O				
0.108.0007	24V - 50A gel battery smartcard																O	O	O				
0.108.0008	36V - 50A tube battery smartcard																			O	O		
0.108.0009	36V - 50A gel battery smartcard																			O	O	O	O
0.108.0010	36V - 60A tube battery smartcard																					O	O
0.108.0025	EU plug (schuko) cable for integrated battery charger 1,5 m				S	S	S																
0.108.0026	USA plug cable for integrated battery charger 1,5 m				O	O	O																
0.108.0027	UK plug cable for integrated battery charger 1,5 m				O	O	O																
0.108.0028	AUS plug cable for integrated battery charger 1,5 m				O	O	O																
0.108.0050	Battery charger / PC cable connection without software				O	O	O	O	O	O	O	O	O	O	O	O							
0.108.0053	CD-ROM software Data Reader "Battery charger - PC"				O	O	O	O	O	O	O	O	O	O	O								

S = standard equipment    O = optional



### SMARTCARD:

Ideal for users that use one battery charger for both wet (tube plate) and GEL batteries. Inserted into the battery charger, they set automatically prope battery recharge curve (vital function for performances and battery life).

### 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 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.

### 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 PPL ones. To collect very thin dirt, it is necessary to use only short round PPL 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.

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.



- **Direct front collection**

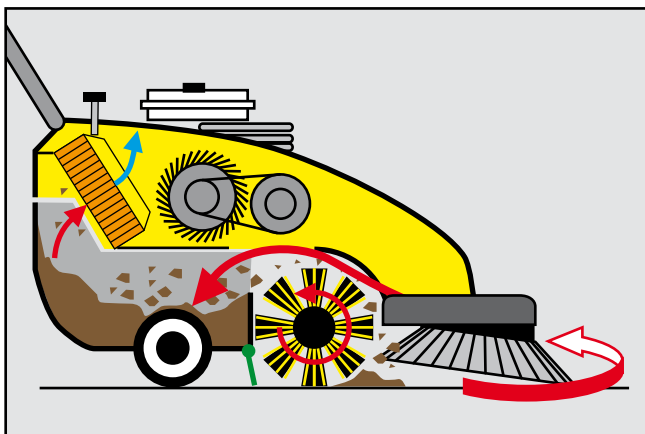
Waste is conveyed with a small push in the front part of the machine. It allows the collection of heavy waste but limiting dust-raising.



- **Indirect back collection**

Waste is conveyed, rotating on the main brush, into the back part of the machine; this allows an optimization of the collection capacity because the complete volume of the

tank is used. The machine is easy to handle because the weight is balanced on the wheel back axis.



- **Quick brush release**

The system allows a fast brush replacing, an easy/fast service and easy access to driving elements



- **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**

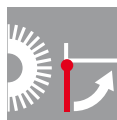
As well as traditional vacuum system, a vacuum system can be found in the lateral brush/es collection area.

Dust dispersion outside the machine is limited also before the main collection area is reached.



- **Antistatic device**

Dust rubbing at high speed against sweeper metal parts 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.



- **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. In the ride-on models this device is electric, granting the best comfort and output for the user.



BSW 650 M



BSW 700 ET



BSW 700 ST



BSW 900 ET

Code	Model	Page	Type	Traction	Main brush width	Main brush + 1 side brush	Main brush + 2 side brushes	Collector tank	Max working capacity	Packaging	Weight with packaging	Weight with packaging	Pcs x pallet
					mm / inc	mm / inc	mm / inc	lt/gal	m <sup>2</sup> / foot <sup>2</sup>	L x l x H cm / inc	kg	lbs	n°
0.042.0001	BSW 650 M	160	manual	Manual	500/19,68	700/27,56	-	30/7,93	2500/26910	90x77x43/36x30x17	30	66	5
0.021.0001	BSW 700 ET	161	electric	Mechanical	510/20,08	655/25,79	-	40/10,57	2620/28201	115x67x82/46x27x33	60	132	1
0.021.0002	BSW 700 ST	161	gasoline motor	Mechanical	510/20,08	655/25,79	-	40/10,57	2620/28201	115x67x82/46x27x33	69	152	1
0.021.0003	BSW 900 ET	162	electric	Mechanical	700/27,56	850/33,46	-	60/15,85	3400/36597	122x86x87/48x34x35	88	194	1
0.021.0004	BSW 900 ST	162	gasoline motor	Mechanical	700/27,56	850/33,46	-	60/15,85	3400/36597	122x86x87/48x34x35	118	260	1







BSW 900 ST



BSW 1000 ET  
BSW 1000 ST



BSW 1000 ET Bin-Up  
BSW 1000 ST Bin-Up

Code	Model	Page	Type	Traction	Main brush width	Main brush + 1 side brush	Main brush + 2 side brushes	Collector tank	Max working capacity	Packaging	Weight with packaging	Weight with packaging	Pcs x pallet
					mm / inc	mm / inc	mm / inc	lt/gal	m <sup>2</sup> / foot <sup>2</sup>	L x l x H cm / inc	kg	lbs	n°
0.021.0005	BSW 1000 ET	163	electric	hydraulic	700/27,56	950/37,40	1250/49,21	85/22,46	7250/78038	140x101x140/55x40x55	191	421	1
0.021.0006	BSW 1000 ST	163	gasoline motor	hydraulic	700/27,56	950/37,40	1250/49,21	85/22,46	7250/78038	140x101x140/55x40x55	237	522	1
0.021.0014	BSW 1000 ET BINUP	164	electric	hydraulic	700/27,56	950/37,40	1250/49,21	95/25,10	6875/74001	140x101x140/55x40x55	319	703	1
0.021.0015	BSW 1000 ST BINUP	164	gasoline motor	hydraulic	700/27,56	950/37,40	1250/49,21	95/25,10	6875/74001	140x101x140/55x40x55	347	765	1



### BSW 650 M

Tilting handle



#### Standard accessories:

0.942.0036



0.942.0037



- Ideal for small and medium surfaces.
- Easy handling.
- Wide collector.



- Brush pressure regulation.
- Collector tank with safety lock.



- Die casting brush arm.
- Single side brush.



- 360° front wheel.

#### BSW 650 M

code	0.042.0001
main brush width	500mm / 19,68inc
main brush + 1 side brush width	700mm / 27,56inc
collector tank/emptying system	30lt-7,93gal / manual
max working capacity	2500m <sup>2</sup> /h - 26910 ft <sup>2</sup>
traction / limiting gradient	manual / max 20%
brushes transmission	elastic belt
pressure on the brushes	regulable
side brush	lifting arm system
dust-laying system	direct
frame material	steel
dimension / weight	111x73x92cm / 29kg

Traction lever

Suction selection lever

Wide collector tank

Heavy duty steel frame



### BSW 700 ST

Reclining handle

**Honda** motor type  
4 Hp  
gasoline 1,4 lt.

Shock proof structure

### BSW 700 ET



#### Standard accessories:

0.915.0010 PP



0.915.0003 PP



0.915.0008

paper filter 14 µm



- Long life elastic belts.
- Main brush pressure regulation.



- Side brush raising control.



- Large filtering surface with electric shaker.

#### Optional:



0.915.0004  
Mixed steel  
brush



0.915.0009  
PE panel filter  
5µm



Batteries



0.108.0001  
Battery charger

#### BSW 700 ET

#### BSW 700 ST

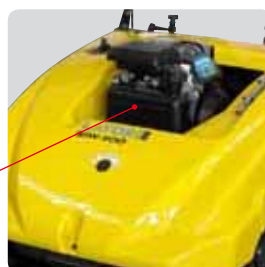
code	0.021.0001	0.021.0002
main brush width	510mm / 20,08inc	510mm / 20,08inc
main brush + 1 side brush width	655mm / 25,79inc	655mm / 25,79inc
collector tank	40 lt / 10,57 gal	40 lt / 10,57 gal
max working capacity	2620m <sup>2</sup> /h-28201ft <sup>2</sup>	2620m <sup>2</sup> /h-28201ft <sup>2</sup>
traction / limiting gradient	mechanical/max18%	mechanical/max20%
max speed	4 km/h-2,49mile/h	4 km/h-2,49 mile/h
motor type / power	12V / 250W	Honda 4 HP / 2,9kW
filtering surface	2 m <sup>2</sup> / 21,53 ft <sup>2</sup>	2 m <sup>2</sup> / 21,53 ft <sup>2</sup>
pressure on the brushes	regulable	regulable
RPM main brush / side brush	300 / 90	300 / 90
dimension / weight	129x63x97cm / 53kg	129x63x97cm/62kg





### BSW 900 ET

### BSW 900 ST

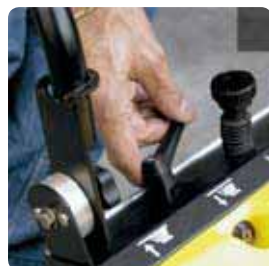


**Honda** motor type 4 Hp  
gasoline tank 3,6 lt.



#### Standard accessories:

- BSW 900 ET 0.915.0005 PP 
- BSW 900 ST 0.915.0006 PP 
- 0.915.0003 PP 
- 0.915.0001 paper filter 14 µm 



- Long life elastic belts.
- Side brush raising control.
- Main brush pressure regulation.







- Wide collector tank.
- Large filtering surface with manual shaker.



- Suction selection drive.

#### Optional:

-  0.915.0004 Mixed steel brush
-  0.915.0002 PE panel filter 5µm
-  Batteries
-  Battery charger

	BSW 900 ET	BSW 900 ST
code	0.021.0003	0.021.0004
main brush width	700mm / 27,56inc	700mm / 27,56inc
main brush + 1 side brush width	850mm / 33,46inc	850mm / 33,46inc
collector tank	60 lt / 15,85 gal	60 lt / 15,85 gal
max working capacity	3400m <sup>2</sup> /h-36597ft <sup>2</sup>	3400m <sup>2</sup> /h-36597ft <sup>2</sup>
traction / limiting gradient	mechanical / max20%	mechanical / max20%
max speed	4 km/h-2,49mile/h	4 km/h-2,49mile/h
motor type / power	12V / 400W	Honda 4 HP / 2,9kW
filtering surface	3,02 m <sup>2</sup> / 32,50 ft <sup>2</sup>	3,02 m <sup>2</sup> / 32,50 ft <sup>2</sup>
pressure on the brushes	regulable	regulable
RPM main brush / side brush	300 / 90	300 / 90
dimension / weight	138x79x98cm / 81kg	138x79x98cm / 110kg



**BSW 1000 ET  
BSW 1000 ST**

Easy to use machine drives

ST version  
HONDA 5 HP motor type  
gasoline tank 3,6 lt.



Shock proof structure

Large filtering surface

Heavy duty steel frame

Wide collector tank



**Standard accessories:**

0.915.0642 PP



0.915.0003 PP



0.915.0012 x4  
paper filter 14µm



- Shock proof steel frame.
- Perfectly balanced weight of the components, thus resulting in totally safe quick changes of direction
- Wide collector tank.



- Large filtering surface distributed on 4 cartridge filters fitted with electronic filter shaker.

**Optional:**



0.915.0004  
Mixed steel brush



0.915.0014  
Left arm (without brush)



0.915.0017  
nylon cellulose body



0.915.0641  
Mixed steel cellulose body



0.915.0653  
main brush  
PP moplen



0.915.0013  
PE 20 µm filter



Batteries



Battery charger

	BSW 1000 ET	BSW 1000 ST
code	0.021.0005	0.021.0006
main brush width	700mm / 27,56inc	700mm / 27,56inc
main brush + 1 side brush	950mm / 37,40inc	950mm / 37,40inc
main brush + 2 side brushes	1250mm / 49,21inc	1250mm / 49,21inc
collector tank	85 lt / 22,46 gal	85 lt / 22,46 gal
max working capacity	7250m <sup>2</sup> /h-78038ft <sup>2</sup>	7250m <sup>2</sup> /h-78038ft <sup>2</sup>
traction / limiting gradient	rear wheels / 16%	front wheel / 15%
max speed	5,8km/h-3,60mile/h	5,8km/h-3,60mile/h
motor type / power	24V / 990W	Honda 5 HP / 3,7kW
filtering surface	4 m <sup>2</sup> / 43,06 ft <sup>2</sup>	4 m <sup>2</sup> / 43,06 ft <sup>2</sup>
filter shaker	electric	electric
dimension / weight	123x98x127cm/184kg	123x98x127cm/230kg

### BSW 1000 ET Bin-Up

### BSW 1000 ST Bin-Up

Comfortable  
control panel



Refuse container lifting  
h max 1,3 m

Shock proof structure

Large filtering  
surface

Heavy duty steel  
frame



#### Standard accessories:

0.915.0642 PP



0.915.0003 PP



0.915.0012 x5  
paper filter 14µm



- Wide collector tank.
- Easy to use machine drives.



- Large filtering surface distributed on 5 cartridge filters fitted with electronic filter shaker.

#### Optional:



0.915.0004  
Mixed steel  
brush



0.915.0651  
left arm  
(without brush)



0.915.0017  
nylon  
cellulose body



0.915.0641  
mixed steel  
cellulose body



0.915.0653  
main brush  
PP moplen



0.915.0013  
PE 20 µm filter



Batteries



Battery charger

#### BSW 1000 ET BIN-UP

#### BSW 1000 ST BIN-UP

code	0.021.0014	0.021.0015
main brush width	700mm / 27,56inc	700mm / 27,56inc
main brush + 1 side brush	950mm / 37,40inc	950mm / 37,40inc
main brush + 2 side brushes	1250mm / 49,21inc	1250mm / 49,21inc
collector tank	95 lt / 25,10 gal	95 lt / 25,10 gal
refuse container lifting height	130 cm / 52 inc	130 cm / 52 inc
max working capacity	6875m <sup>2</sup> /h-74001 ft <sup>2</sup>	6875m <sup>2</sup> /h-74001 ft <sup>2</sup>
traction / limiting gradient	rear wheels / 10%	front wheel / 15%
max speed	5,5km/h-3,42mile/h	5,5km/h-3,42mile/h
motor type / power	24V / 1350W	Honda 5,5 HP / 4kW
filtering surface / filter shaker	5m <sup>2</sup> - 54ft <sup>2</sup> / electric	5m <sup>2</sup> - 54ft <sup>2</sup> / electric
dimension / weight	136x96x118cm/312kg	136x96x118cm/340kg



## Accessories

			BSW 650 M	0.042.0001	BSW 700 ET	0.021.0001	BSW 700 ST	0.021.0002	BSW 900 ET	0.021.0003	BSW 900 ST	0.021.0004	BSW 1000 ET	0.021.0005	BSW 1000 ST	0.021.0006	BSW 1000 ET BIN-UP	0.021.0014	BSW 1000 ST BIN-UP	0.021.0015
	0.915.0001	paper panel filter 14 micron							S	S										
	0.915.0002	polyester panel filter 5 micron							O	O										
	0.915.0008	paper panel filter 14 micron			S	S														
	0.915.0009	polyester panel filter 5 micron			O	O														
	0.942.0037	PP side brush	S																	
	0.915.0003	PP side brush			S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
	0.915.0004	mixed steel side brush			O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	0.942.0036	PP main brush	S																	
	0.915.0005	PP - moplen body main brush - bristle d. 0,5 mm							S	O										
	0.915.0006	PP - moplen body main brush - bristle 0,9x0,5 mm							O	S										
	0.915.0010	PP - moplen body main brush - bristle d. 0,5 mm			S	S														
	0.915.0642	PP - moplen body main brush											S	S	S	S				
	0.915.0017	nylon - cellulose body main brush											O	O	O	O				
	0.915.0653	PP - moplen body, bristle d. 0,4-0,7 mm											O	O	O	O				
	0.915.0641	mixed steel - cellulose body main brush											O	O	O	O				
	0.915.0640	mixed steel - moplen body main brush			O	O														
	0.915.0012	cartridge paper filter 14 micron											S	S	S	S				
	0.915.0013	cartridge polyester filter 20 micron											O	O	O	O				
	0.915.0014	left side arm brush (without brush)											O	O						
	0.915.0651	left side arm brush (without brush)															O	O		
	0.915.0015	dust conveyor													O	O				
	0.915.0650	dust conveyor															O	O		
	0.915.0016	garbage collector drawer											O	O						

S = standard equipment

O = optional



### Batteries and Batteries charger

Code	 Battery - walk behind floor sweepers	0.021.0001	0.021.0003	Code	 Battery charger
		BSW 700 ET	BSW 900 ET		
0.107.0001	plane plate battery 12V - 80Ah C20	O(1)		0.108.0001	LWS 1 - 12/24V - 12A
0.107.0014	tube battery 12V - 105Ah C20	O(1)		0.108.0001	LWS 1 - 12/24V - 12A
0.107.0030	gel battery 12V - 110Ah C20 - M6 F - (add 1x 0.107.0031 each battery)	O(1)		0.108.0001	LWS 1 - 12/24V - 12A
0.107.0032	gel battery 12V - 110Ah C5 - M6 F - (add 1x 0.107.0031 each battery)		O(1)	0.108.0001	LWS 1 - 12/24V - 12A
0.107.0002	tube battery 12V - 118Ah C5 - 157Ah C20		O(1)	0.108.0001	LWS 1 - 12/24V - 12A
0.107.0003	plane plate battery 6V - 240Ah C20 (add 1x 5.511.0561 each battery)		O(2)	0.108.0002	LWS 2 - 12/24V - 25A
0.107.0004	tube battery 6V - 180Ah C5 - 240Ah C20 (add 1x 5.511.0561 each battery)		O(2)	0.108.0002	LWS 2 - 12/24V - 25A
0.107.0033	gel battery 6V-180Ah C5M8F(add 1x5.511.0561 & 1x0.107.0047 each battery)		O(2)	0.108.0002	LWS 2 - 12/24V - 25A

S = standard equipment

O = optional

(1)-(2)= n° batteries

Code	 Battery - ride on sweepers	0.021.0005	0.021.0014	Code	 Battery charger
		BSW 1000 ET	BSW 1000 ET BIN-UP		
0.107.0002	tube battery 12V - 118Ah C5 - 157Ah C20	O(2)	O(2)	0.108.0001	LWS 1 - 12/24V - 12A
0.107.0032	gel battery 12V-110AhC5-M6F(add 1x0.107.0031 each battery & 1x5.511.0561)	O(2)	O(2)	0.108.0001	LWS 1 - 12/24V - 12A
0.107.0003	plane plate battery 6V-240Ah C20 - add 1x batteries support, 3x 5.511.0561	O(4)	O(4)	0.108.0002	LWS 2 - 12/24V - 25A
0.107.0004	tube battery 6V-240Ah C20 - add 1x batteries support, 3x 5.511.0561	O(4)	O(4)	0.108.0002	LWS 2 - 12/24V - 25A
0.107.0033	gel battery 6V-180Ah C5 M8 F - add 1x0.107.0047 each battery, 1x batteries support, 3x 5.511.0561	O(4)	O(4)	0.108.0002	LWS 2 - 12/24V - 25A





S = standard equipment

O = optional

(1)-(2)= n° batteries



## Accessories

	0.107.0031	battery poles kit M6 M (+ -)
	0.107.0047	battery poles kit M8 M (+ -)
	5.511.0561	battery electric cable
	0.915.0018	batteries support holder kit - BSW 1000 ET
	0.915.0652	batteries support holder kit - BSW 1000 ET BIN-UP





**GV is suitable to degrease and sanificate any object or surface in an easy, ecological and definitive way .**

GV range is made up of electric generators producing saturated steam at 10 atm pressure and 180°C temperature.

It is 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 sanification 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.



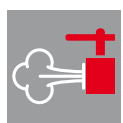
• **Temperature regulator:**

The temperature is set-up by an electronic regulator: it allows to obtain damp steam (low temperature) if our application needs a stronger kinetic energy; or saturated steam if the application needs a little water waste on the surface. A lower temperature produces a set lower working pressure accordingly to the steam physic law.



• **Steam pressure gauge:**

Easily visible on the machine, underlines the different phases inside the boiler: raising, achievement of maximum pressure and working pressure during use..



• **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:**

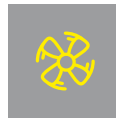
The boiler is refilled by a water pump that gets water from an external water tank. This system allows an unlimited autonomy, because it is not necessary to turn off the steam generator and wait a lower temperature to refill with water. An automatic control recharges the boiler when necessary. In some models there is an acoustic signal advising about low water level inside the water tank.



• **Detergent:**

Thanks to the presence of a secondary tank and pump, we can add chemical product to steam flow, favoring the breakup and the dust removing speed.

It is necessary to use specific chemical product to be mixed with steam and they must not be hazardous when vaporized (recommended: LCB-880DP)



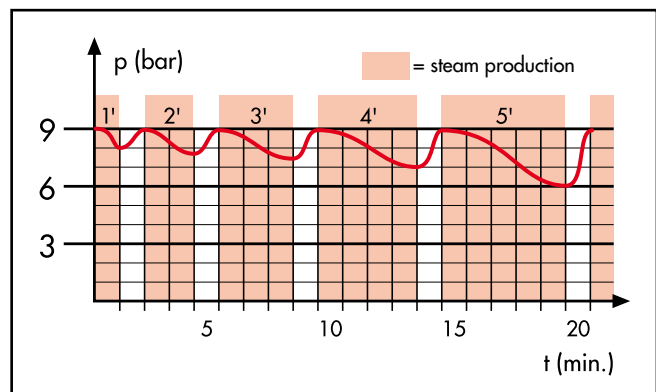
• **Integrated vacuum:**

Dirt is vacuumed inside a tank integrated in the machine



• **Min. granted pressure:**

Performances of single phase or vacuuming steam generators, normally, decrease consistently while continuous duty.



With our technology, steam is at 6 bar (158°C) even after 5 minutes of continuous work: performances much higher than any other machine of the same category. After closing the steam gun, steam pressure and temperature return to top values in few seconds





GV Etna



GV 3,3 M plus



GV 18



GV 30

Code	Model	Page	Absorbed power	Vacuum motor	Max pressure	Steam production	Max temperature	Heating and activation time req.	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°
8.451.0001	ETNA	171	3300	1100	6	3,25	158	4-7	5	5	750x600x1030	41,4	91,27	2
8.450.0010	3.3M PLUS	172	3300	-	9	4,62	175	7-10	5	5	595x435x650	37	81,57	2
8.450.0003	GV 18	173	18000	-	10	22,5	180	7-10	25	5	830x550x1370	134	295,41	1
8.450.0005	GV 30	173	30000	-	10	37,5	180	7-10	25	5	830x550x1370	134	295,41	1







**GV Etna**



**Standard accessories:**



- Boiler is refilled continuously.



- Drain hose system.



- Device for using chemicals and detergents mixed with steam.

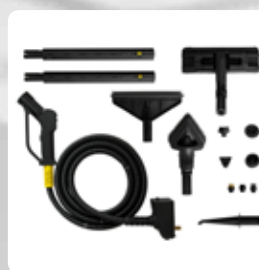
**GV ETNA**

code	8.451.0001
abs. power	2.2 Kw / 230V - 50Hz (Ph1)
max pressure/temperature	6 bar / 158° C
steam production	3.25 Kg/h
boiler type/volume	inox AISI 304 / 4 l
water tank/deterg. tank capacity	5 l / 5 l
vacuum motor	1100 W
depression	20.39 kPa / 2000 mmH <sub>2</sub> O
air flow	220 m <sup>3</sup> /h
cable lenght	6 m
noise level	73 dB(A)
dimensions / weight	630x540x880 / 32 Kg - 70.54 lbs

### GV 3,3 M plus



#### Standard accessories:



- Saturated steam at 9 bar at a temperature of 175°C.
- Steam gun with low tension control.
- Heating and activation time required: 7 min.
- Device for using chemicals and detergents mixed with steam.



#### Optional:

5.409.0101  
m 10 flexible hose with gun and detergent switch

5.409.0107  
m 15 flexible hose with gun and detergent switch

#### GV 3,3M PLUS

code	8.450.0010
abs. power	3.3 Kw / 230V - 50Hz (Ph1)
max pressure	9 bar
steam production	4.62 Kg/h
max temperature	175° C
boiler type/volume	inox AISI 304 / 3.6 l
water tank capacity	5 l
detergent tank capacity	5 l
heating and activation time req.	7-10 min
cable lenght	2.4 m
noise level	<80 dB(A)
dimensions / weight	620x400x860 / 34 Kg - 74.95 lbs

**GV 18  
GV 30**

Control panel with low tension controls: ON-OFF main switch, indicator lamp, thermoregulator, water and warning light, gun activating key

Traceless wheels suitable for use in food processing area



Chemical tank  
Water tank

S/S AISI 304



**Standard accessories:**



- Boiler is refilled continuously.
- Heating and activation time required: 7 min.



- Saturated steam at 10 bar at a temperature of 180° C.
- Device for using chemicals and detergents mixed with steam.

**Optional:**



6.402.0058  
m 6 steam gun with hose



6.402.0059  
m 10 steam gun with hose



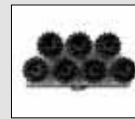
6.402.0067  
mm 350 S/S glass wiper



6.402.0063  
floor scraping lance



6.402.0064  
6 holes triangular brush (without small brushes)



6.402.0065  
7 holes triangular brush (without small brushes)

	GV 18	GV 30
code	8.450.0003	8.450.0005
abs. power	18 Kw / 400V - 50Hz (Ph3)	30 Kw / 400V - 50Hz (Ph3)
max pressure	10 bar	10 bar
steam production	22.5 Kg/h	37.5 Kg/h
max temperature	180° C	180° C
boiler type/volume	inox AISI 304 / 18 l	inox AISI 304 / 18 l
water tank capacity	25 l	25 l
detergent tank capacity	5 l	5 l
heating and activation time req.	7-10 min	7-10 min
cable lenght	2.7 m	2.7 m
noise level	72 dB(A)	72 dB(A)
dimensions / weight	850x500x1550 / 123 Kg - 271.1 lbs	850x500x1550 / 123 Kg - 271.1 lbs

### Accessories

			GV Etna
1	5.211.0036	steam / suction handle complete with hose	S
2	3.754.0196	glass wiper for small rectangular nozzle	S
3	3.754.0197	brush for small rectangular nozzle	S
4	3.754.0194	small rectangular nozzle steam/suction	S
5	3.754.0109	bristle connection for accessory holder brush	S
6	3.754.0108	glass wiper connection for accessory holder brush	S
7	3.754.0110	carpet connection for accessory holder brush	S
8	3.754.0192	accessory holder brush steam/suction	S
9	3.754.0118	round suction brush	S
10	3.754.0193	glass wiper steam/suction	S
11	3.754.0119	suction flat lance	S
12	3.754.0195	accessory connection with steam/suction nozzle	S
13	6.402.0071	small nylon brush Ø 30	S
14	6.402.0072	small brass brush Ø 30	S
15	6.402.0073	small S/S brush Ø 30	S
16	3.753.0085	extension pipes steam/suction	S



			GV 3.3 M plus
1	3.754.0160	rectangular brush	S
-	3.099.0126	cloth for triangular brush	S
2	3.754.0159	triangular brush	S
3	3.754.0161	turbo lance with nozzle	S
4	3.754.0162	nylon bristle brush Ø28	S
5	3.754.0163	brass bristle brush Ø28	S
6	3.754.0164	steel bristle brush Ø28	S
7	3.754.0165	nylon bristle brush Ø60	S
8	3.754.0158	triangular nylon bristle brush	S
9	3.754.0157	sink opener Ø60	S
10	3.754.0156	steam scraper	S
11	3.754.0155	steam glass wiper	S
12	5.409.0093	3m flexible hose complete with gun and detergent switch	S
12	5.409.0101	10m flexible hose complete with gun and detergent switch	O
12	5.409.0107	15m flexible hose complete with gun and detergent switch	O
13	3.753.0048	steam extension hose	S



S = standard equipment

O = optional



Accessories

			GV 18	GV 30
1	6.402.0044	steam gun fitted with hose (3,5 m)	S	S
2	6.402.0051	straight lance mm 175 without nozzle	S	S
3	6.402.0052	curved lance mm 250 without nozzle	S	S
4	6.402.0053	straight lance mm 425 without nozzle	S	S
5	6.402.0046	black plastic scraper l. 50	S	S
6	6.402.0047	S/S bristle brush Ø 30	S	S
7	6.402.0048	brass bristle brush Ø 30	S	S
8	6.402.0045	nylon bristle brush Ø 30	S	S
9	6.402.0050	glass wiper	S	S
-	4.407.0077	nozzle Ø 2,9 mm (2 pz.)	S	
-	4.407.0079	nozzle Ø 3,75 mm (2 pz.)		S
10	5.413.0006	steam hose holder	S	S



S = standard equipment O = optional

			GV 18	GV 30
	6.402.0058	steam gun fitted with hose (6 m)	O	O
	6.402.0059	steam gun fitted with hose (10 m)	O	O
	6.402.0067	S/S glass wiper 350 mm	O	O
	6.402.0063	floor scraping lance	O	O
	6.402.0064	6 holes triangular brush (without small brushes)	O	O
	6.402.0065	7 holes rectangular brush (without small brushes)	O	O

S = standard equipment O = optional

**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 three different categories: pre-compression, pneumatic charge and continuous pneumatic charge. Pre-compression sprayers don't need any separate air compressor, because the integrated manual pump is used to compress the tank and vaporize the product. They work at low pressures, they use plastic materials for easy moving, lightness and perfectly resistant to chemical products, thanks also to FPM seals (Viton).

Pneumatic charge sprayers need to be connected to an air compressor to charge the tank and allow the product vaporization without the connection to the air compressor. They work at high-pressures and so they use capacious steel or stainless steel tanks to allow a greater working autonomy.

Continuous pneumatic foam sprayers need a permanent connection to an air compressor; in this way air mixes with the chemical product producing a soft and voluminous foam that persists on surfaces: with a little chemical product, it is possible to treat wider areas or tough dirt (also on ceilings, inclined and/or slippery walls).

They work at high-pressure and so they use capacious steel or stainless steel tanks to allow a greater working autonomy.



The chemical product spraying is a finishing phase of cleaning task with other machines. The choice of the right product considering the kind of cleaning task grants the best result, complying with the environment and the machine that sprays the chemical product. Our chemical products range has been conceived complying with the strictest rules protecting the environment and avoiding the indiscriminating use of products damaging the environment. The right measuring and respect of the instructions we suggest are the best balance of the economical and technical needs of each up-to-date and aware cleaning task.

Code	Model	Page	Product	Capacity	Recharging	Working pressure	Category	Single packaging weight	Single packaging weight	Single packaging dimensions	Pieces for pallet	Pallet dimensions
				liters		bar		kg	lbs	cm L x l x H	N°	cm L x l x H
0.006.0012	COMPREX NP10	177	Sprayer	10,75	Manual	3	Belt	2,3 kg	5	22x22x57	70	120x80x235
0.006.0011	COMPREX NP12	177	Sprayer	14,85	Manual	3	Trolley	4,9 kg	11	38x38x55	24	120x80x233
0.006.0002	SPRAY NV24	178	Sprayer	24	Pneumatic	6	Trolley	17 kg	38	34x34x82	18	102x102x215
0.006.0004	SPRAY NX24	178	Sprayer	24	Pneumatic	6	Trolley	13 kg	29	34x34x82	18	102x102x215
0.006.0003	SPRAY NV50	178	Sprayer	50	Pneumatic	6	Trolley	27 kg	60	47x47x107	12	141x107x205
0.006.0005	SPRAY NX50	178	Sprayer	50	Pneumatic	6	Trolley	20 kg	44	47x47x107	12	141x107x205
0.006.0007	FOAMJET SV24	179	Foam sprayer	24	Air operating	6	Trolley	17 kg	38	34x34x82	18	102x102x215
0.006.0009	FOAMJET SX24	179	Foam sprayer	24	Air operating	6	Trolley	13 kg	29	34x34x82	18	102x102x215
0.006.0008	FOAMJET SV50	179	Foam sprayer	50	Air operating	6	Trolley	27 kg	60	47x47x107	12	141x107x205
0.006.0010	FOAMJET SX50	179	Foam sprayer	50	Air operating	6	Trolley	20 kg	44	47x47x107	12	141x107x205

### Comprex

Anti freeze hose type

Manual recharging

Discharge valve

Tilting handle

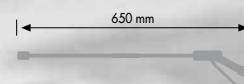
Discharge valve

Chemicals use gasket type

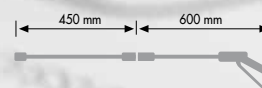
#### Standard accessories:

- Professional gun.
- Lance.
- Nozzle.
- Chemicals use hose and gasket.

#### Comprex NP10



#### Comprex NP12



#### COMPREX NP10

#### COMPREX NP12

code	0.006.0012	0.006.0011
volume	10,75 l	14,85 l
max detergent capacity	8,50 l	12,00 l
residue	< 0,25 l	< 0,25 l
gasket type	VITON chemicals use	VITON chemicals use
detergent temperature range	min 1°C - max 40° C	min 1°C - max 40° C
recharging	manual	manual
working pressure - flow	3 bar - 1100cc / min.	3 bar - 1100cc / min.
safety system	discharge valve	discharge valve
hose type	anti-freeze	anti-freeze
hose / lance lenght	1150 mm / 650 mm	1800 mm / 1050 mm
dimension / weight	21x21x55 cm / 1,8 kg - 3,96 lbs	35x26x95 cm / 3,8 kg - 8,37 lbs



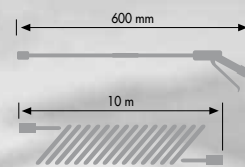
### Spray



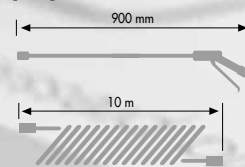
#### Standard accessories:

- Professional gun.
- Lance with nozzle.
- Integrated inlet and outlet quick.
- Chemical use hose and gasket.

#### Spray 24



#### Spray 50



	SPRAY NV24	SPRAY NX24	SPRAY NV50	SPRAY NX50
code	0.006.0002	0.006.0004	0.006.0003	0.006.0005
capacity	24 l	24 l	50 l	50 l
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	pneumatic	pneumatic	pneumatic	pneumatic
pressure regulator	manual	manual	manual	manual
gun connection	1/4" G-F	1/4" G-F	1/4" G-F	1/4" G-F
hose type	rilsan	rilsan	rilsan	rilsan
hose / lance lenght	10 mt / 600 mm	10 mt / 600 mm	10 mt / 900 mm	10 mt / 900 mm
dimension / weight	28x32x75 cm / 15 kg - 33,06 lbs	28x32x75 cm / 11 kg - 24,25 lbs	45x42x100 cm / 25 kg - 55,11 lbs	45x42x102 cm / 18 kg - 39,68 lbs



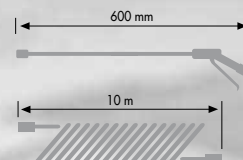
## Foamjet



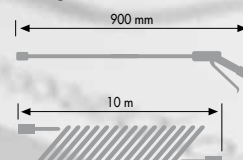
### Standard accessories:

- Professional gun.
- Lance with nozzle.
- Integrated inlet and outlet quick.
- Chemical use hose and gasket.

### Foamjet 24



### Foamjet 50



	FOAMJET SV24	FOAMJET SX24	FOAMJET SV50	FOAMJET SX50
code	0.006.0007	0.006.0009	0.006.0008	0.006.0010
capacity	24 l	24 l	50 l	50 l
working pressure	6 bar	6 bar	6 bar	6 bar
safety valve	max 8 bar	max 8 bar	max 8 bar	max 8 bar
pressure indicator	pressure gauge	pressure gauge	pressure gauge	pressure gauge
level indicator	external column	external column	external column	external column
recharging	air operating	air operating	air operating	air operating
pressure regulator	manual	manual	manual	manual
gun connection	1/4" G-F	1/4" G-F	1/4" G-F	1/4" G-F
hose type	rilsan	rilsan	rilsan	rilsan
hose / lance lenght	10 mt / 600 mm	10 mt / 600 mm	10 mt / 900 mm	10 mt / 900 mm
dimension / weight	28x32x75 cm / 15 kg - 33,06 lbs	28x32x75 cm / 11 kg - 24,25 lbs	45x42x100 cm / 25 kg - 55,11 lbs	45x42x102 cm / 18 kg - 39,68 lbs





**LAVOR** PRO



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