

2017/18

Main Catalogue

www.ctmcleaning.com

NEW

CTM online

www.ctmcleaning.com

a website totally renovated in the contents and from the graphical point of view: it will offer easier exploration and more complete technical information.

A website of modern concept helping our customer finding the necessary updated information about our products, easily and in real time.

www.ctmcleaning.com

will offer complete product videos about machine running, machine use and plus of the main products of professional range: an additional very useful sales tool. Thanks to the new web site, videos will be integrated directly in the product sheet.

www.ctmcleaning.com

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





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

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.



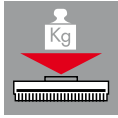
path need with 1, 2 or 3 disc brushes.



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



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



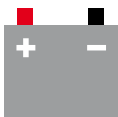
• Constant brush pressure:
The pressure of brushes on the floor is made by the heavy brush plate that follows irregularly on the floor and gives always the top pressure without any adjustment still with shorter bristles.



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



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



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

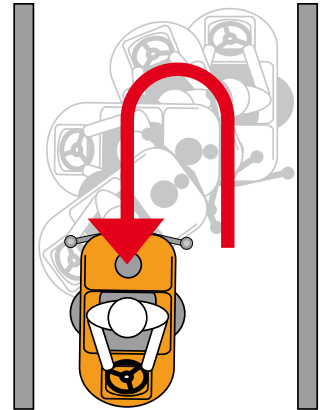


• Hour meter
Useful to check work sessions and to plan stops for battery charging. Best output and investment protection.

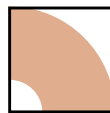


LEVEL
• Charge meter and battery protection
It informs when the autonomy is finishing, allowing the end of the cleaning task (stopping brushes first and then the rest). It prevents damages to the batteries, preventing the complete discharge with any kind of technologies.

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



Applications pads



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



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



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



FLICK

LEONIS

ALCOR

SWIFT R EVO

MIZAR EVO

SIGMA 1

SIGMA 2 R

KRON PICO

| 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 ² /h - ft ² /h | l/gal | l/gal | | L x l x H cm / inc | kg | |
| 8.518.0002 | Flick 36E | 8 | 230V/50HZ | 1 | 360 | 460 | 1260-13562 | 11/2,91 | 12/3,17 | 81x56x80/32x22x32 | 62 | 135 | 1 |
| 8.518.0001 | Flick 36B | 8 | 12V | 1 | 360 | 460 | 1260-13562 | 11/2,91 | 12/3,17 | 81x56x80/32x22x32 | 70 | 154 | 1 |
| 8.580.0007 | Leonis 45E | 10 | 230V/50HZ | 1 | 450 | 540 | 1500-16145 | 30/7,9 | 35/9,24 | 117x58x78/46x22x30 | - | - | 1 |
| 8.580.0008 | Leonis 45B | 10 | 24V | 1 | 450 | 540 | 1500-16145 | 30/7,9 | 35/9,24 | 117x58x78/46x22x30 | 77 | 169 | 1 |
| 8.580.0009 | Leonis 45B | 10 | 24V | 1 | 450 | 540 | 1500-16145 | 30/7,9 | 35/9,24 | 117x58x78/46x22x30 | 117 | 257 | 1 |
| 8.524.3301 | Alcor 43E | 12 | 230V/50HZ | 1 | 450 | 800 | 1575-16952 | 25/6,61 | 28/7,39 | 113x61x110/44x24x43 | 123 | 271 | 1 |
| 8.524.1001 | Alcor 43B | 12 | 24V | 1 | 450 | 800 | 1575-16952 | 25/6,61 | 28/7,39 | 113x61x110/44x24x43 | 73 | 161 | 1 |
| 8.524.0001 | Alcor 43B | 12 | 24V | 1 | 450 | 800 | 1575-16952 | 25/6,61 | 28/7,39 | 113x61x110/44x24x43 | 114 | 251 | 1 |
| 8.527.0039 | Swift R EVO 50E | 14 | 230V/50HZ | 1 | 500 | 800 | 2000-21527 | 44/11,63 | 50/13,21 | 124x58x121/49x23x48 | 115 | 253 | 1 |
| 8.527.0040 | Swift R EVO 50B | 14 | 24V | 1 | 500 | 800 | 2000-21527 | 44/11,63 | 50/13,21 | 124x58x121/49x23x48 | 114 | 251 | 1 |
| 8.527.0041 | Swift R EVO 50B | 14 | 24V | 1 | 500 | 800 | 2000-21527 | 44/11,63 | 50/13,21 | 124x58x121/49x23x48 | 116 | 255 | 1 |
| 8.527.0043 | Swift R EVO 50BT | 14 | 24V | 1 | 500 | 800 | 2000-21527 | 44/11,63 | 50/13,21 | 124x58x121/49x23x48 | 118 | 260 | 1 |
| 8.527.0044 | Swift R EVO 50BT | 14 | 24V | 1 | 500 | 800 | 2000-21527 | 44/11,63 | 50/13,21 | 124x58x121/49x23x48 | 118 | 260 | 1 |
| 8.525.1307 | Mizar EVO 55 BTR | 16 | 24V | 1 | 500 | 800 | 2000-21527 | 44/11,63 | 50/13,21 | 125x57x116/49,5x22,5x46 | 140 | 308 | 1 |
| 8.525.1304 | Mizar EVO 66 BTR | 16 | 24V | 2 | 660 | 800 | 2640-28416 | 55/14,52 | 65/17,17 | 142x72x123/56x28x48 | 133 | 193 | 1 |



KRON ZERO R Vantage

KRON ZERO R Plus

KRON S3 EV

KRON M

KRON 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 ² /h - ft ² /h | l/gal | l/gal | L x l x H cm / inc | kg | lbs | n° |
| 8.504.0348 | Sigma 50 BTR | 18 | 24V | 1 | 500 | 800 | 2250-24218 | 67/17,70 | 77/20,35 | 142x72x123/56x28x48 | 128 | 282 | 1 |
| 8.504.0363 | Sigma 55 BTR | 18 | 24V | 2 | 550 | 800 | 2475-26640 | 67/17,70 | 77/20,35 | 142x72x123/56x28x48 | 131 | 289 | 1 |
| 8.504.0373 | Sigma 66 BTR | 18 | 24V | 2 | 660 | 800 | 2970-31968 | 67/17,70 | 77/20,35 | 142x72x123/56x28x48 | 140 | 308 | 1 |
| 8.517.0109 | Sigma 2 R BTR | 20 | 24V | 2 | 750 | 900 | 4275-46015 | 88/23,25 | 91/24,04 | 156x74x128/61x29x50 | 178 | 392 | 1 |
| 8.579.0005 | Kron Pico 66 | 22 | 24V | 2 | 660 | 855 | 3250-34982 | 75/19,81 | 80/21,13 | 153x82x140/60x32x55 | 175 | 492 | 1 |
| 8.579.0006 | Kron Pico 66 | 22 | 24V | 2 | 660 | 855 | 3250-34982 | 75/19,81 | 80/21,13 | 153x82x140/60x32x55 | 252 | 492 | 1 |
| 8.576.3001 | Kron Zero R 75 Vantage | 24 | 24V | 2 | 750 | 900 | 3750-40364 | 110/29,06 | 130/34,34 | 152x97x154/59x39x61 | 226 | 497 | 1 |
| 8.576.3002 | Kron Zero R 85 Vantage | 24 | 24V | 2 | 850 | 900 | 6100-65660 | 110/29,06 | 130/34,34 | 152x97x154/59x39x61 | 227 | 500 | 1 |
| 8.576.3101 | Kron Zero R Plus 75 | 26 | 24V | 2 | 750 | 900 | 3750-40364 | 110/29,06 | 130/34,34 | 152x97x154/59x39x61 | 236 | 519 | 1 |
| 8.576.3102 | Kron Zero R Plus 85 | 26 | 24V | 2 | 850 | 1000 | 6100-65660 | 110/29,06 | 130/34,34 | 152x97x154/59x39x61 | 237 | 521 | 1 |
| 8.577.0101 | Kron S3 EV | 28 | 24V | 2 | 900 | 1000 | 5740-61784 | 140/36,99 | 150/39,63 | 200x118x171/79x46x67 | 345 | 760 | 1 |
| 8.578.0002 | Kron M2 | 30 | 36V | 2 | 1020 | 1250 | 7140-76854 | 200/52,84 | 210/55,48 | 200x118x171/79x46x67 | 381 | 838 | 1 |
| 8.572.0013 | Kron L2 | 32 | 36V | 3 | 1220 | 1450 | 8540-91923 | 280/73,97 | 315/83,22 | 230x135x190/91x53x74 | 670 | 1.474 | 1 |

FLICK



Standard equipment:



- 5.511.1346
PPL brush Ø 360 mm - 15"



- 4.508.1040
Front squeegee blade
L.537 mm - Th. 2.5 mm
- 4.508.1041
Rear squeegee blade
L.590 mm - Th. 3 mm



- 0.108.0072
On-board Battery charger
CBHD1 12V 8A
only for model code:
8.518.0001



- 0.107.0061
Maintenance free battery
12 MFP 50 -65 Ah
C-20/50 Ah C-5
only for model code:
8.518.0001

- 0.108.0025
Power cable 1,5 mt. for battery
charger
only for model code:
8.518.0001



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



Watch the video on youtube:
www.youtube.com/ctmcleaning

| | Flick 36E | Flick 36B |
|-------------------------------|------------------------------|------------------------------|
| code | 8.518.0002 | 8.518.0001 |
| power supply | 220/240 V - 50/60 Hz | 12 V |
| scrubbing / squeegee width | 360 / 460 mm | 360 / 460 mm |
| max working capacity | 1260 m ² /h | 1260 m ² /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 | 130/18 kg /40 lbs |
| brush motor power | 370 W | 250 W |
| detergent solution system | solenoid valve | solenoid valve |
| depression / vacuum motor | 850 mmH ₂ O/400 W | 650 mmH ₂ O/180 W |
| dimensions / weight | 120x43x97 cm/53 kg | 120x43x97 cm/61 kg |



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

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



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

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



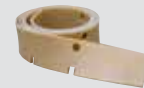
Optional accessories:



- 0.107.0050 Battery AGM 12V 55Ah



- 0.108.0051 Booster battery charger



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



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



- 5.511.1129 EWU pad driver Ø 360mm-14"



(5 pcs package)

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



- 4.512.0068 Extension electric cord 15 m with Schuko plug

NEW



LEONIS

Standard equipment:



• 5.511.1941
PP brush Ø 430 mm - 17"



• 4.508.1319 Front squeegee blade Shore 40 Th.
• 4.508.1320 Rear squeegee blade Shore 40 Th.



• 0.108.0073
On-board Battery charger 24V 10A
(only for model code: 8.580.0008 / 8.580.0009)



• 2 x 0.107.0061
Maintenance free battery 12 MFP 50 - 12V 50Ah
only for model code: 8.580.0009



- Ideal for small and medium floors up to 1600sqm, especially when congested by people or furnishing like in wellness centres, gyms, car showroom, retail shops, hospitals and schools.
- Automatic brush attachment, discharge and delayed cut-off.
- Adjustable solution release with automatic cut-off.
- Narrow body with both side brush protrusion and 170° squeegee spin.
- Tool less removable recovery tank with large visual inspection window and stretchable discharge hose.
- Adjustable driving handle with dead man switches, soft touch controls and diagnosis (Eco Energy mode and battery low level automatic cut-off for DC version).
- Large non marking working wheels and sturdy rear roller for displacements.



Watch the video on youtube:
www.youtube.com/lavorpro

| | Leonis 45E | Leonis 45B | Leonis 45B |
|-------------------------------|-------------------------------|--------------------------------|--------------------------------------|
| code | 8.580.0007 | 8.580.0008 | 8.580.0009 |
| power supply | 230V 50Hz | 24V (battery charger included) | 24V (batteries and charger included) |
| scrubbing / squeegee width | 450 / 540 mm | 450 / 540 mm | 450 / 540 mm |
| max working capacity | 1600 m ² /h | 1600 m ² /h | 1600 m ² /h |
| solution tank capacity | 30 l / 7.92 gal | 30 l / 7.92 gal | 30 l / 7.92 gal |
| recovery tank capacity | 32-35 l / 8.45 - 9.24 gal | 32-35 l / 8.45 - 9.24 gal | 32-35 l / 8.45 - 9.24 gal |
| traction | mechanical | mechanical | mechanical |
| RPM / pressure on the brushes | 150/18 kg / 39,68 lbs | 150/18 kg / 39,68 lbs | 150/18 kg / 39,68 lbs |
| brush motor power | 400 W | 400 W | 400 W |
| detergent solution system | solenoid valve | solenoid valve | solenoid valve |
| depression / vacuum motor | 1200 mmH ₂ O/400 W | 1200 mmH ₂ O/400 W | 1200 mmH ₂ O/400 W |
| dimensions / weight | 117x58x78 cm / kg | 117x58x78 cm / 57 kg | 117x58x78 cm / 97 kg |



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

Optional accessories:



- 0.107.0050 Battery AGM 12V 55Ah



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

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



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



- 5.511.0229 EWU pad driver Ø 430 mm-17"



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



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



- 4.512.0068 Extension electric cord 15 m with Schuko plug

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



ALCOR



Standard equipment:



- 5.511.1688
PPL brush Ø 430 mm - 17"



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



- 0.108.0069
On-board Battery charger CBHD1 24V 10A
only for model code:
8.524.1001
8.524.0001



- 2 x 0.107.0061
Maintenance free battery 12 MFP 50 - 12V 50Ah
only for model code:
8.524.0001



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



Watch the video on youtube:
www.youtube.com/ctmcleaning

| | Alcor 43E | Alcor 43B | Alcor 43B |
|-------------------------------|-------------------------------|--------------------------------|--|
| code | 8.524.3301 | 8.524.1001 | 8.524.0001 |
| power supply | 230 V - 50 Hz | 24V (battery charger included) | 24V (Battery and battery charger included) |
| scrubbing / squeegee width | 430 / 800 mm | 430 / 800 mm | 430 / 800 mm |
| max working capacity | 1575 m ² /h | 1575 m ² /h | 1575 m ² /h |
| detergent tank capacity | 25 l / 6.61 gal | 25 l / 6.61 gal | 25 l / 6.61 gal |
| recovery tank capacity | 25-28 l / 6.61 gal | 25-28 l / 6.61 gal | 25-28 l / 6.61 gal |
| traction | mechanical | mechanical | mechanical |
| RPM / pressure on the brushes | 140/25 kg / 39,68 lbs | 150/18 kg / 39,68 lbs | 150/18 kg / 39,68 lbs |
| brush motor power | 550 W | 450 W | 450 W |
| detergent solution system | mechanical | solenoid valve | solenoid valve |
| depression / vacuum motor | 1733 mmH ₂ O/550 W | 1100 mmH ₂ O/370 W | 1100 mmH ₂ O/370 W |
| dimensions / weight | 106x50x88 cm / 65 kg | 106x50x88 cm / 87kg | 106x50x88 cm / 87kg |



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

Optional accessories:



- 0.107.0050 Battery AGM 12V 55Ah



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



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



- 5.511.1095 EWU pad driver Ø 430 mm-17"



(5 pcs package)

- 6.508.0032 Abrasive pad Ø 430 mm-17" - beige
- 6.508.0039 Abrasive pad Ø 430 mm-17" - green
- 6.508.0046 Abrasive pad Ø 430 mm-17" - black



- 4.512.0068 Extension electric cord 15 m with Schuko plug

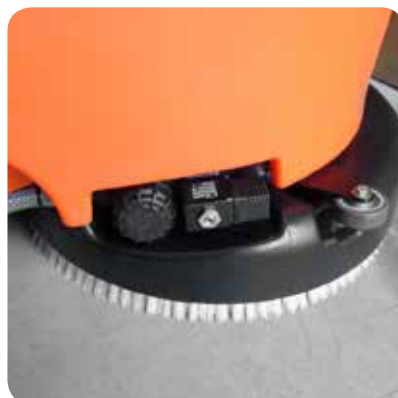
Indicator of clean water tank level. Detergent solution regulation. Recovery tank drain hose with adjustable flow system.



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



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



SWIFT R EVO

NEW



- Very compact scrubbing machines suitable to work for the maintenance cleaning of limited-size areas (up to 1.500 m²)
- Especially suitable for cleaning: car shops, sales points, gym, health care
- Control panel with battery charge level indicator
- Solution water filter and solenoid valve
- Easy access to the battery compartment
- Quick drain and easily inspectable recovery tank
- Non-marking wheels
- Roto-molded polyethylene tanks, shock and acid resistant
- The lower tank also serves as battery compartment
- Low noise operation thanks to the protected positioning of vacuum motor.

Standard equipment:



- 5.511.1097
PPL brush Ø 483 mm - 19"



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



- 0.108.0069
On-board Battery charger CBHD1 24V 10A
only for model code:
8.528.0003 - 8.528.0005



- 0.107.0054
Maintenance free battery 12V 75Ah BT DC 5.5
only for model code:
8.528.0005



Watch the video on youtube:
www.youtube.com/ctmcleaning

| | Swift R Evo 50E | Swift R Evo 50B | Swift R Evo 50B | Swift R Evo 50BT | Swift R Evo 50BT |
|-------------------------------|-------------------------------|-----------------------------|--------------------------------|------------------------------|--------------------------------|
| code | 8.527.0039 | 8.527.0040 | 8.527.0041 | 8.527.0043 | 8.527.0044 |
| power supply | 230V | 24V | 24V (battery charger included) | 24V | 24V (battery charger included) |
| scrubbing / squeegee width | 500 / 800 mm | 500 / 800 mm | 500 / 800 mm | 500 / 800 mm | 500 / 800 mm |
| max working capacity | 2000 m ² /h | 2000 m ² /h | 2000 m ² /h | 2000 m ² /h | 2000 m ² /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 |
| recovery tank capacity | 50-60 l / 13,21-16 gal | 50-60 l / 13,21-16 gal | 50-60 l / 13,21-16 gal | 50-60 l / 13,21-16 gal | 50-60 l / 13,21-16 gal |
| traction | mechanical | mechanical | mechanical | mechanical | mechanical |
| RPM / pressure on the brushes | 150/20 kg / 44,09 lbs | 150/18 kg / 44,09 lbs | 150/18 kg / 44,09 lbs | 150/18 kg / 39,68 lbs | 150/18 kg / 39,68 lbs |
| brush motor power | 550W | 550W | 550W | 550W | 550W |
| detergent solution system | solenoid valve | solenoid valve | solenoid valve | solenoid valve | solenoid valve |
| depression / vacuum motor | 1700 mmH ₂ O/1000W | 1280mmH ₂ O/400W | 1280 mmH ₂ O/400W | 1280 mmH ₂ O/400W | 1280 mmH ₂ O/400W |
| dimensions / weight | 116x46x98cm / 115 kg | 116x51x98cm / 114 kg | 116x51x98cm / 116 kg | 116x51x98cm / 118 kg | 116x51x98cm / 118 kg |



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

Optional accessories:



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



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



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



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



- 5.511.1099
EWU pad driver Ø 483
mm-19"



(5 pcs package)

- 6.508.0034
Abrasive pad Ø 483 mm-19"
- beige
- 6.508.0041
Abrasive pad Ø 483 mm-19"
- green
- 6.508.0048
Abrasive pad Ø 483 mm-19"
- black



- 4.512.0068
Extension electric cord 15 m
with Schuko plug

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



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

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



MIZAR EVO



- Designed for the maintenance and deep cleaning of large areas (up to 1.700 m²)
- Especially suitable for cleaning: car shops, sales points, gym, health care
- User friendly control panel • Automatic brush lifting • Fully accessible recovery water tank with visual inspection • Automatic detergent measuring system
- Big size traction wheels • Handle with control lever.

Standard equipment:



Mizar Evo 55

- 5.511.1113
- PP brush Ø 533 mm - 21"



Mizar Evo 66

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



Mizar Evo 55

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

Mizar Evo 66

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



- 0.108.0070
- On-board Battery charger
- 24V 12A

| | Mizar EVO 55BTR | Mizar EVO 66BTR |
|-------------------------------|--------------------------------|--------------------------------|
| code | 8.525.1307 | 8.525.1304 |
| power supply | 24V (battery charger included) | 24V (battery charger included) |
| scrubbing / squeegee width | 550 / 800 mm | 660 / 800 mm |
| max working capacity | 2200 m ² /h | 2640 m ² /h |
| detergent tank capacity | 55 l / 14.5 gal | 55 l / 14.5 gal |
| recovery tank capacity | 55-65 l / 14.52-17.17 gal | 55-65 l / 14.52-17.17 gal |
| traction | automatic/200W | automatic/200W |
| RPM / pressure on the brushes | 165/30 kg / 66 lbs | 175/33 kg / 72,7 lbs |
| brush motor power | 550 W | 2 x 400 W |
| detergent solution system | solenoid valve | solenoid valve |
| depression / vacuum motor | 1200 mmH ₂ O/400 W | 1200 mmH ₂ O/400 W |
| dimensions / weight | 128x71x106 cm / 104 kg | 128x71x106 cm / 110 kg |



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

Optional accessories:



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



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



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



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



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



(5 pcs package)

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

Hour meter, clean water tank level indicator. Detergent regulation device. Recovery tank drain hose with adjustable flow system. Automatic brush lifting.



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

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



SIGMA 1



- Suitable to work for the maintenance and deep cleaning of large areas (up to 2.200 m²)
- User friendly control panel: scrubbing and vacuuming switches, forward/reverse traction selector, battery charge indicator, key switch
- Adjustable traction speed with the motorcycle-type control handle
- Self levelling brush plate
- Easy access to the battery compartment without the use of tools
- Quick vacuum motor and filter inspection
- Large capacity detergent solution tank, with large filling opening protected by a screw cap
- Parking brake directly on the wheel
- Non-marking wheels
- Easy squeegee regulation without tools
- Hour meter and solenoid valve.

Standard equipment:

SIGMA 50

- 5.511.1097
- PPL brush Ø 483 mm - 19"



SIGMA 55BTR

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



SIGMA 66BTR

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



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

| | Sigma 50BTR | Sigma 55BTR | Sigma 66BTR |
|-------------------------------|--------------------------------|--------------------------------|--------------------------------|
| code | 8.504.0348 | 8.504.0363 | 8.504.0373 |
| power supply | 24V | 24V | 24V |
| scrubbing / squeegee width | 500 / 800 mm | 550 / 800 mm | 660 / 800 mm |
| max working capacity | 2250 m ² /h | 2475 m ² /h | 2970 m ² /h |
| detergent tank capacity | 67 l / 17.70 gal | 67 l / 17.70 gal | 67 l / 17.70 gal |
| recovery tank capacity | 75-95 l / 20.35-25 gal | 75-95 l / 20.35-25 gal | 75-95 l / 20.35-25 gal |
| traction | automatic | automatic | automatic |
| RPM / pressure on the brushes | 150/35 kg /77.16 lbs | 150/45 kg /99.20 lbs | 150/24 kg /52.91 lbs |
| brush motor power | 600 W | 600 W | 600 W |
| detergent solution system | solenoid valve | solenoid valve | solenoid valve |
| depression / vacuum motor | 1280 mmH ₂ O / 450W | 1280 mmH ₂ O / 450W | 1280 mmH ₂ O / 450W |
| dimensions / weight | 135x56x102 cm / 97 kg | 128x71x106 cm / 100 kg | 128x71x106 cm / 109 kg |



User friendly control panel.
 Forward/reverse traction selector.
 General ON/OFF key switch,
 brush and vacuum motor switch.
 Thermal circuit breakers to
 protect vacuum and brush motor,
 battery level control, hour meter.

Optional accessories:



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



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



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



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



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



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

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

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



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



(5 pcs package)

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

Quick access to the battery compartment without the use of tools. Large capacity solution tank (67 l), the highest in the category. Two 12V - 118 Ah C5 for a great working autonomy.



Robust quick connection squeegee, easily adjustable without the use of tools.

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



SIGMA 2 R

NEW



Standard equipment:

SIGMA 2 R 75BT



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



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



- Capable to work for the maintenance and deep cleaning of large areas (up to 2.600 m²)
- User friendly control panel: forward speed setting, scrubbing and vacuuming selectors, battery charge indicator, traction direction indicator, key main switch
- Large handle with traction driving lever for forward and backward directions
- Self levelling brush plate
- Cover removable without tools
- Quick vacuum motor and filter inspection, without tools
- Detergent solution filter
- Detergent solution tank provided with large opening protected by quick locking cap.

| | Sigma 2 R 75BT |
|-------------------------------|---------------------------------|
| code | 8.517.0109 |
| power supply | 24V |
| scrubbing / squeegee width | 750 / 900 mm |
| max working capacity | 4275 m ² /h |
| detergent tank capacity | 88 l / 23.25 gal |
| recovery tank capacity | 91-95 l / 24.04-25 gal |
| traction type / power | automatico/ 300 W |
| RPM - pressure on the brushes | 150 - 48,5 kg /107.48 lbs |
| brush motor power | 1000 W |
| detergent solution system | solenoid valve |
| depression / vacuum motor | 1733 mmH ₂ O / 550 W |
| dimensions / weight | 133x73x117 cm / 153 kg |



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

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



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



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



Optional accessories:



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



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



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



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



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



- 5.511.1106
Tynex brush Ø 330 mm-13"
- 5.511.1246
Tynex brush Ø 360 mm-14"

- 5.511.1255
PPL 0,03 brush Ø 330 mm-13"
- 5.511.1169
PPL 0,03 brush Ø 360 mm-14"

- 5.511.1202
PES brush Ø 330 mm-13"
- 5.511.1203
PES brush Ø 360 mm - 14"



- 5.511.1107
EWU pad driver Ø 330 mm-13"
- 5.511.1129
EWU pad driver Ø 360 mm-14"



(5 pcs package)

- 6.508.0030 - Ø 340 mm-13"- beige
- 6.508.0037 - Ø 340 mm-13"- green
- 6.508.0044 - Ø 340 mm-13"- black

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

KRON PICO



Standard equipment:



- 2 x 5.511.1789
PPL Brush Ø 330 mm - 14"



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

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



- 0.108.0054
On-board Battery charger
CBH2D 24V 20A
(only for model code:
8.579.0006)



- 2 x 0.107.0063
Gel battery 12V 105 A/C
5/120A C20
(only for model code:
8.579.0006)

Designed for the maintenance and deep cleaning of large areas (up to 3200 sqm.) with a very important reduction of cleaning cost. Very compact size and great maneuverability like walk behind models: suited for maintenance cleaning. • 32 kg. of constant pressure on the brushes. • Double counter rotating brush (66 cm of scrubbing width) obtaining better stability and constant pressure. • Great working autonomy (till 4,5 hours) thanks to the possibility to use 4 batteries 6 V 240 Ah and to rear wheel-drive. • Large load tank capacity (real load of 85 l.), resulting in reduced numbers of stops and maximum use of battery for effective operation of the machine. • Ergonomic steering wheel of new design with user friendly controls and digital display. • Easy access to electrical components. • Inspection cover for fast and easy cleaning and sanification of dirt water tank. • Automatic device that stops brushes and detergent water outflow when the machine is stationary. • Self-levelling brush plate. • **Automatic detergent measuring system.**



Watch the video on youtube:
www.youtube.com/ctmcleaning

| | Kron pico | Kron pico |
|-------------------------------|-------------------------------|--|
| code | 8.579.0005 | 8.579.0006 |
| power supply | 24V | 24V (Battery and battery charger included) |
| scrubbing / squeegee width | 660 / 855 mm | 660 / 855 mm |
| max working capacity | 3250 m ² /h | 3250 m ² /h |
| solution tank capacity | 80 l / 21.13 gal | 80 l / 21.13 gal |
| recovery tank capacity | 80-85 l / 21.13-22.45 gal | 80-85 l / 21.13-22.45 gal |
| traction | rear wheel-drive / 400 W | rear wheel-drive / 400 W |
| RPM / pressure on the brushes | 170/32 kg / 70.54 lbs | 170/32 kg / 70.54 lbs |
| brush motor power | 2 X 400 W | 2 X 400 W |
| max gradient empty/full tank | 13% / 10% | 13% / 10% |
| depression / vacuum motor | 1300 mmH ₂ O/400 W | 1300 mmH ₂ O/400 W |
| dimensions / weight | 123 x 63 h 121 cm / 160 kg | 123 x 63 h 121 cm / 234 kg |



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

Optional accessories:



- 4 x 0.107.0004
Tubular battery Pb-acid
6V 180Ah C5
+ 2 x 5.511.0561 connection
cable batteries



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



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



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



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



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



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



(5 pcs package)

- 2 x 6.508.0030 - Ø 340
mm - 13"- beige
- 2 x 6.508.0037 - Ø 340
mm - 13"- green
- 2 x 6.508.0044 - Ø 340
mm - 13"- black



- 6.505.0062
Flashing beacon

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



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

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



NEW

KRON ZERO R Vantage



- Capable to work for the maintenance and deep cleaning of large areas (up to 3.700 m²) with a very important reduction of cost of cleaning
- More than 50 kg of constant pressure on the brushes
- Large load tank capacity, resulting in reduced number of stops and maximum use of battery charge for effective operation of the machine
- Compact size (810 mm)
- Stability even when fully loaded, front independent wheeldrive with tight steering radius
- Recovery tank control window for cleaning and easy ordinary maintenance
- Easy access to electrical components
- Automatic device that stops brushes and detergent water outflow when the machine is stationary
- Self-levelling brushes

Standard equipment:



Kron ZERO R 75 Vantage

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



Kron ZERO R 85 Vantage

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



Kron ZERO R 75 Vantage

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

Kron ZERO R 85 Vantage

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



Watch the video on youtube:
www.youtube.com/ctmcleaning

| | KRON ZERO R 75 Vantage | KRON ZERO R 85 Vantage |
|-------------------------------|------------------------------|------------------------------|
| code | 8.576.3001 | 8.576.3002 |
| power supply | 24V | 24V |
| scrubbing / squeegee width | 750 / 900 mm | 850 / 900 mm |
| max working capacity | 3750 m ² /h | 4100 m ² /h |
| detergent tank capacity | 110 l / 29.05 gal | 110 l / 29.05 gal |
| recovery tank capacity | 130-155 l / 34.35-40.95 gal | 130-155 l / 34.35-40.95 gal |
| traction type / power | front motorwheel / 600 W | front motorwheel / 600 W |
| RPM / pressure on the brushes | 150/50 kg / 110.23 lbs | 150/50 kg / 110.23 lbs |
| brush motor power | 2 x 400 W | 2 x 400 W |
| max gradient empty/full tank | 13% / 10% | 13% / 10% |
| depression / vacuum motor | 1300 mmH ₂ O/400W | 1300 mmH ₂ O/400W |
| dimensions / weight | 146x81x138 cm / 220 kg | 146x81x138 cm / 220 kg |



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

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



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

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



Optional accessories:



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



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



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



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



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

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



- 5.511.1246
Tynex brush Ø 360 mm-14"
- 5.511.1169
PPL 0,03 brush Ø 360 mm-14"
- 5.511.1203
PES brush Ø 360 mm - 14"

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



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



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

NEW

KRON ZERO R Plus



- Capable to work for the maintenance and deep cleaning of large areas (up to 4.000 m²) with a considerable reduction of cleaning costs
- More than 50 kg of constant pressure on the brushes
- Large load tank capacity, resulting in reduced number of stops and maximum use of battery charge for effective operation of the machine
- Compact size (810 mm)
- Stability even when fully loaded, front independent wheeldrive with tight steering radius
- Recovery tank control window for cleaning and easy ordinary maintenance
- Automatic brush plate lifting system
- Automatic squeegee lifting system
- Automatic squeegee lifting while reverse going
- Automatic device that stops brushes and detergent water outflow when the machine is stationary
- Antifoam device
- Self-levelling brushes

Standard equipment:



Kron Zero R Plus 75

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



Kron Zero R Plus 85

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



Kron Zero R Plus 75

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

Kron Zero R Plus 85

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



- 0.108.0054
On-board Battery charger
CBH2D 24V 20A



Watch the video on youtube:
www.youtube.com/ctmcleaning

| | KRON Zero R Plus 75 | KRON Zero R Plus 85 |
|-------------------------------|------------------------------|------------------------------|
| code | 8.576.3101 | 8.576.3102 |
| power supply | 24V | 24V |
| scrubbing / squeegee width | 750 / 900 mm | 850 / 900 mm |
| max working capacity | 3750 m ² /h | 4100 m ² /h |
| detergent tank capacity | 110 l / 29.05 gal | 110 l / 29.05 gal |
| recovery tank capacity | 130-155 l / 34.35-40.95 gal | 130-155 l / 34.35-40.95 gal |
| traction type / power | front motorwheel / 600 W | front motorwheel / 600 W |
| RPM / pressure on the brushes | 150/50 kg / 110.23 lbs | 150/50 kg / 110.23 lbs |
| brush motor power | 2 x 400 W | 2 x 400 W |
| max gradient empty/full tank | 13% / 10% | 13% / 10% |
| depression / vacuum motor | 1300 mmH ₂ O/400W | 1300 mmH ₂ O/400W |
| dimensions / weight | 146x81x138 cm / 220 kg | 146x81x138 cm / 220 kg |



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

Kron Zero Plus is equipped with actuators for the automatic lifting of the brush plate and squeegee. New control panel with digital controls and display. Digital display: with hour meter, battery charge level indicator, empty water tank level indicator and forward/reverse traction indicator. Speed control adjustment, horn,



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

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



Optional accessories:



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



- 4 x 0.107.0072
GEL Battery 6 MFP 180
6V 180Ah C5
+ 2 x 5.511.0561
Connection cable



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

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



- 5.511.1246
Tynex brush Ø 360 mm-14"
- 5.511.1169
PPL 0,03 brush Ø 360 mm-14"
- 5.511.1203
PES brush Ø 360 mm - 14"

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



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



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

NEW

KRON S3 EV



- Suitable for maintenance and deep cleaning of medium and large areas (up to 4.500 m²) with a considerable reduction of cleaning costs
- More than 60/80 kg of constant pressure on the brushes
- Large load tank capacity, resulting in reduced number of stops and maximum use of battery charge for effective operation of the machine
- Compact size
- Stability even when fully loaded
- Front independent wheel-drive with tight steering radius
- Easy access to electrical components
- Automatic brush plate lifting system
- Automatic squeegee lifting system
- Automatic squeegee lifting while reverse going
- Automatic device that stops brushes and detergent water outflow when the machine is stationary
- Antifoam device
- Self-levelling brushes
- High-performance batteries resulting in high-working efficiency.

Standard equipment:



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



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

| | Kron S3 EV |
|-------------------------------|------------------------------|
| code | 8.577.0101 |
| power supply | 24V |
| scrubbing / squeegee width | 900 / 1000 mm |
| max working capacity | 6200 m ² /h |
| detergent tank capacity | 140 l / 36.99 gal |
| recovery tank capacity | 150-180 l / 39.6-47 gal |
| traction type / power | front motorwheel / 900 W |
| RPM / pressure on the brushes | 150/80 kg / 176 lbs |
| brush motor power | 1250 W |
| max gradient empty/full tank | 10% / 7% |
| depression / vacuum motor | 1734 mmH ₂ O/550W |
| dimensions / weight | 175x93x149 cm / 220 kg |



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

Optional accessories:



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



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



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



- 5.511.1848
Tynex brush Ø 457 mm-18"
- 5.511.1849
PPL 0,03 brush Ø 457 mm-18"
- 5.511.1847
PES brush Ø 457 mm - 18"



- 5.511.1850
EWU pad driver Ø 457 mm-18"



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

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



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



Built with strong components, Kron S3 EV have been designed to resist even to extreme stresses; the frame is made of steel profiles with a thickness varying from 5 to 12 mm, protected with a high resistance corrosion-proof paint.



KRON M2



- Suitable for maintenance and deep cleaning of medium and large areas (up to 6.000 m²)
- More than 90/120 kg of constant pressure on the brushes
- Large load tank capacity, resulting in reduced number of stops and maximum use of battery charge for effective operation of the machine
- Stability even when fully loaded
- Front independent wheel-drive with tight steering radius
- Easy access to electrical components
- Automatic brush plate lifting system
- Automatic squeegee lifting system
- Automatic squeegee lifting while reverse going
- Automatic control system for brush rotation and detergent water outflow
- Antifoam device
- Self-levelling brush plate
- Hour meter
- High-performance batteries resulting in high-working efficiency.

Standard equipment:



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



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



Watch the video on youtube:
www.youtube.com/ctmcleaning

| | Kron M2 |
|-------------------------------|---------------------------------|
| code | 8.578.0002 |
| power supply | 36V |
| scrubbing / squeegee width | 1020 / 1250 mm |
| max working capacity | 7140 m ² /h |
| detergent tank capacity | 200 l / 52.84 gal |
| recovery tank capacity | 210-240 l / 55.5-63.4 gal |
| traction type / power | front motorwheel / 900 W |
| RPM / pressure on the brushes | 150/120 kg /246 lbs |
| brush motor power | 1500 W |
| max gradient empty/full tank | 10% / 8% |
| depression / vacuum motor | 1800 mmH ₂ O / 600 W |
| dimensions / weight | 190x96x145 cm / 375 kg |



The unique anti foam device dramatically reduces the foam generation and prevents it from touching the suction motor, thus protecting its operation. The electronic floating switch stops suction when the tank is full. Large tank opening for fast and easy cleaning and sanification.

The strong V-shaped floor squeegee made of steel profile is widely adjustable and allows to combine the operation of the rubber blades with the high suction power, to get a perfect drying result on every surface. The special filter box retains solid debris and prevents the obstruction of the suction hose.



Optional accessories:



- 0.107.0009 Battery box Pb-acid 36V 360Ah C5
- 0.107.0012 Gel battery box 36V 320Ah C5



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



- 4.508.1167 Polyurethane front blade L.1270 TH. 4
- 4.508.0897 Polyurethane rear blade L.1345 TH. 6



- 5.511.1098 Tynex brush Ø 483 mm-19"

- 5.511.1128 PPL 0,03 brush Ø 483 mm-19"

- 5.511.1206 PES brush Ø 483 mm - 19"



- 5.511.1099 EWU pad driver Ø 483 mm-19"



(5 pcs package)

- 6.508.0034 - Ø 483 mm - 19"- beige
- 6.508.0041 - Ø 483 mm - 19"- green
- 6.508.0048 - Ø 483 mm - 19"- black



Kron M scrubbers are easy to use thanks to the simple and user friendly controls. From the control panel the operator can adjust the maximum forward speed and the quantity of cleaning solution outflow, selecting the options most suitable to the dirt type. Job is simplified and made faster by the automatic lifting of the squeegee and of the brush plate.

Thanks to the optimal weight distribution and to the use of strong oil-proof polyurethane wheels the drive is perfect in all working conditions. The emptying of the solution water tank is quick with a simple and easy accessible mechanical tap.



KRON L2



- Suitable for maintenance and deep cleaning of medium and large areas (up to 7.000 m²)
- More than 120-170 kg of constant pressure on the brushes
- 300 litres solution tank capacity allows exceptional autonomy and productivity
- Stability even when fully loaded
- Innovative traction system with three independent motor wheels controlled by electronic cards
- Easy access to electrical components
- Automatic brush plate lifting system
- Automatic squeegee lifting system
- Automatic squeegee lifting while reverse going
- Automatic control system for brush rotation and detergent water outflow
- Antifoam device
- Self-levelling brushes, hour meter, solenoid valve. High-performance batteries resulting in high-working efficiency

Standard equipment:



- 3 x 5.511.1109
PPL brush Ø 406 mm - 16"



- 4.508.0219
Front squeegee blade L.1500 mm
Shore 40 Th. 4 mm
- 4.508.0218
Rear squeegee blade L.1580 mm
Shore 33 Th. 6 mm

| | Kron L2 |
|-------------------------------|---------------------------------|
| code | 8.572.0013 |
| power supply | 36V |
| scrubbing / squeegee width | 1220 / 1450 mm |
| max working capacity | 8540 m ² /h |
| detergent tank capacity | 280 l / 73.97 gal |
| recovery tank capacity | 315-340 l / 83.2-89 gal |
| traction type / power | 3-wheels drive / 3 x 600 W |
| RPM / pressure on the brushes | 150/170 kg / 374 lbs |
| brush motor power | 3 x 1000 W |
| max gradient empty/full tank | 15% / 14% |
| depression / vacuum motor | 1800 mmH ₂ O / 600 W |
| dimensions / weight | 222x112x169 cm / 585 kg |



Designed to perform the hardest work and to resist even to extreme stresses with maximum comfort; the frame is made of steel profiles with a thickness varying from 5 to 12 mm, protected with a high resistance corrosion-proof paint.

Optional accessories:



- 0.107.0010
Battery box Pb-acid
36V 525Ah C5



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



- 4.508.1167 Polyurethane
front blade L.1270 TH. 4
- 4.508.0897 Polyurethane
rear blade L.1345 TH. 6



- 5.511.1110
Tynex brush Ø 406 mm-16"

- 5.511.1120
PPL 0,03 brush Ø 406 mm-16"

- 5.511.1204
PES brush Ø 406 mm - 16"



- 5.511.1111
EWU pad driver Ø 406 mm-16"



(5 pcs package)

- 6.508.0031 - Ø 406 mm -
16"- beige
- 6.508.0038 - Ø 406 mm -
16"- green
- 6.508.0045 - Ø 406 mm -
16"- black

The unique anti foam device dramatically reduces the foam generation and prevents it from touching the suction motor, thus protecting its operation.
The electronic floating switch stops suction when the tank is full.
Large tank opening for fast and easy cleaning and sanification.



The cleaning solution tank with an exceptional capacity of 300 liters and the high autonomy of the battery ensure a productivity at the top of the range. The wide rear opening allows for an easy and quick refilling of the cleaning solution tank.

The motorwheels, designed and built by LAVOR, grant optimal performances and exceptional reliability.
The innovative three-wheel drive system ensures perfect traction in every operating condition.
The high power of the three motorwheels allows the machine to get over remarkable slopes.



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.

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 vacuumefficiency!

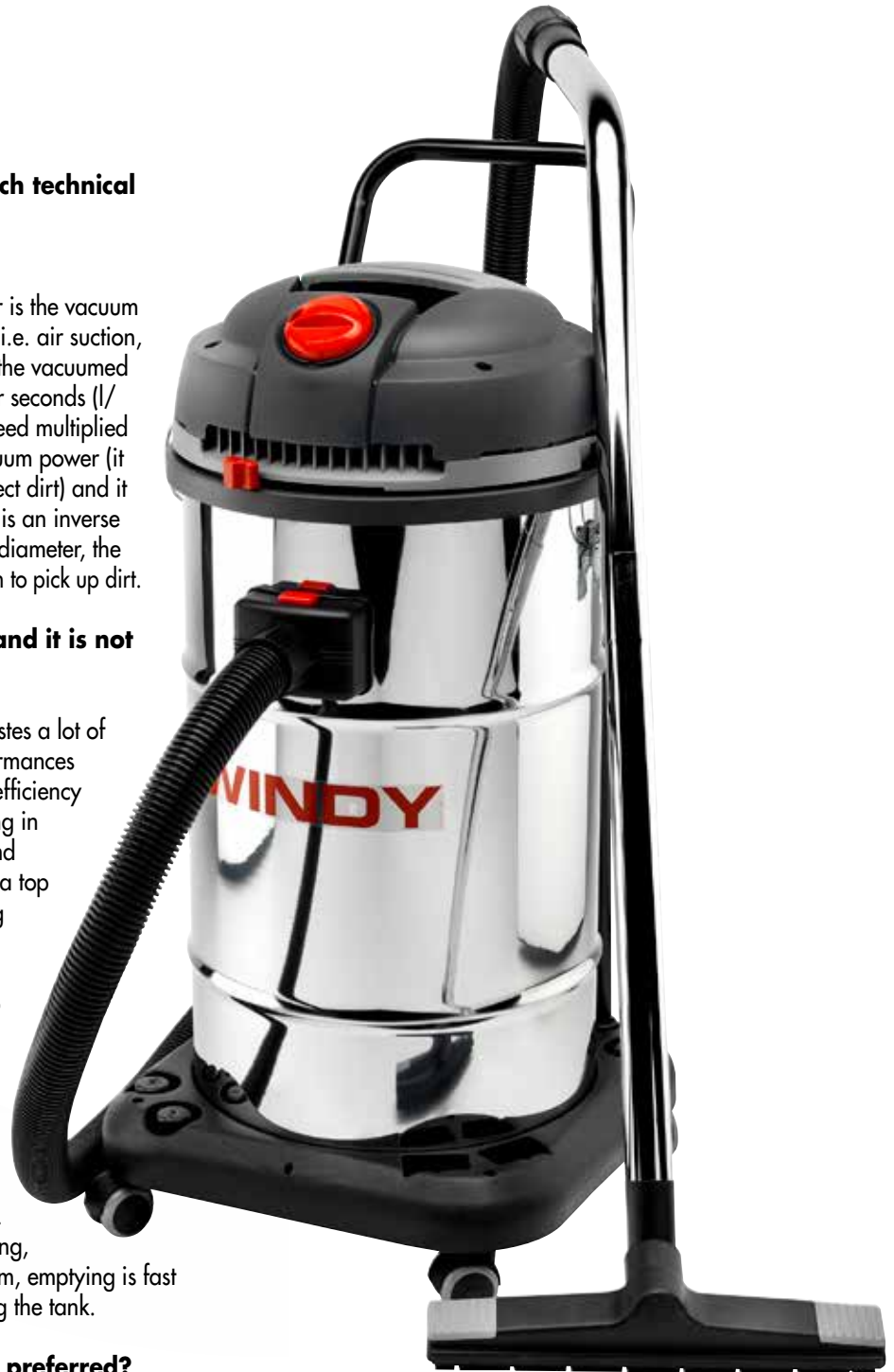
If the vacuum cleaner is not well-done, it wastes a lot of electric power without having the best performances possible. Summing up, the vacuum cleaner efficiency is a relationship between air suction (resulting in multiplication of pressure and air suction) and motor power. All our vacuum cleaners have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





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.



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.



Paper collector filter

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

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



Cloth filter

The cloth consistency and its shape allow a simple cleaning phase and the re-usage of the filter.

It can be used only for vacuuming dry waste; if combined with nylon filter it is possible to work for a longer period of time.



Cartridge filter

The continuous folders arranged in circle allow a higher filtering surface in a smaller area.

More cleaning autonomy with a thin filtering action. It can be used only for vacuuming dry waste and it is re-usable.



SP 112 D

Windy 120 IF

Windy 130 IF

Windy 265 PF

Windy 265 IF

Windy 365 IF

| Code | Model | Page | Voltage | Motor power | Column depression | Air suction | Tank capacity | Noise level | Packaging L x l x H | Packaging weight | Packaging weight | Pieces for pallet |
|------------|--------------|------|--------------------|-------------|------------------------|-------------|---------------|-------------|---------------------|------------------|------------------|-------------------|
| | | | V - Hz | W / W max | kPa/mmH ₂ O | l/s | l | dB (A) | cm | kg | lbs | N° |
| 8.246.0004 | SP 112 D | 39 | 220/240V - 50/60Hz | 800 / 900 | 24 / 2400 | 44 l/s | 12 l | 72 dB (A) | 39x39x42 | 7,4 | 16 | 30 |
| 8.249.0001 | WINDY 120 IF | 40 | 220/240V - 50/60Hz | 1200 / 1400 | 24 / 2400 | 65 l/s | 20 l | 79 dB (A) | 39x40x54 | 10 | 22 | 24 |
| 8.250.0001 | WINDY 130 IF | 41 | 220/240V - 50/60Hz | 1200 / 1400 | 24 / 2400 | 65 l/s | 30 l | 79 dB (A) | 39x40x79 | 11 | 24 | 15 |
| 8.239.0008 | WINDY 265 PF | 42 | 230V - 50Hz | 2000 / 2400 | 22 / 2200 | 130 l/s | 65 l | 79 dB (A) | 60x48x87 | 18,8 | 41 | 8 |
| 8.239.0001 | WINDY 265 IF | 43 | 230V - 50Hz | 2000 / 2400 | 22 / 2200 | 130 l/s | 65 l | 79 dB (A) | 60x48x87 | 19,8 | 44 | 8 |
| 8.240.0001 | WINDY 365 IR | 44 | 230V - 50Hz | 3000 / 3600 | 22 / 2200 | 195 l/s | 65 l | 79 dB (A) | 65x55x104 | 25,5 | 56 | 4 |
| 8.215.0518 | SP 150F | 46 | 230V - 50Hz | 1200 / 1400 | 24 / 2400 | 54 l/s | 50 l | 71 dB (A) | 60x48x72 | 16,6 | 36 | 8 |
| 8.216.0516 | SP 278F | 47 | 230V - 50Hz | 2000 / 2400 | 24 / 2400 | 108 l/s | 78 l | 71 dB (A) | 62x55x95 | 25,2 | 55 | 4 |



SP 150F



SP 278F



SP 378F



LX 150F



LX 278F



LX 378F

| Code | Model | Page | Voltage | Motor power | Column depression | Air suction | Tank capacity | Noise level | Packaging L x l x H | Packaging weight | Packaging weight | Pieces for pallet |
|------------|---------|------|-------------|-------------|------------------------|-------------|---------------|-------------|---------------------|------------------|------------------|-------------------|
| | | | V - Hz | W / W max | kPa/mmH ₂ O | l/s | l | dB (A) | cm | kg | lbs | N° |
| 8.217.0513 | SP 378F | 48 | 230V - 50Hz | 3000 / 3600 | 24 / 2400 | 162 l/s | 78 l | 74 dB (A) | 62x55x95 | 28,8 | 62 | 4 |
| 8.215.0517 | LX 150F | 49 | 230V - 50Hz | 1200 / 1400 | 24 / 2400 | 55 l/s | 50 l | 74 dB (A) | 60x48x72 | 17,6 | 38,5 | 8 |
| 8.216.0515 | LX 278F | 50 | 230V - 50Hz | 2000 / 2400 | 24 / 2400 | 108 l/s | 78 l | 76 dB (A) | 62x55x95 | 27,8 | 61 | 4 |
| 8.217.0512 | LX 378F | 51 | 230V - 50Hz | 3000 / 3600 | 24 / 2400 | 162 l/s | 78 l | 76 dB (A) | 62x55x95 | 29,8 | 65,6 | 4 |

WINDY: New commercial wet & dry range of vacuum cleaners



WINDY range is the new line of commercial vacuum cleaners suitable for wet and dry applications: three models equipped with 2 or 3 professional single stage motor (from 2,4 up to 3,6 kW), stainless steel or anti shock plastic tank, tilting or fixed tank: WINDY are mainly designed for daily light industrial use and are perfectly suited to the most common demand of cleaning contractors, garages, workshops etc...

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

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

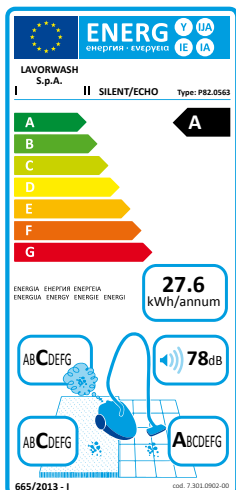
Equipped with professional accessories and professional filter, WINDY is the answer to your requests!



SP 112 D

**LONG LIFE
MOTOR**

NEW



Equipped with:

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

Standard equipment:

- 5.209.0210 Hose 2 m



- 6.205.0187



- 3.754.0005



- 3.754.0015



- 3.754.0263



- 3.754.0004



- 3.752.0115



- 5.209.0207



- Power cable 7,5 m

Optional:

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

SP 112 D

| | |
|-------------------|--------------------------------|
| code | 8.246.0004 |
| voltage | 230-240V ~ 50Hz |
| n°motors - power | 1 - 800 W |
| column depression | 24 kPa/2400 mmH ₂ O |
| air suction | 44 l/s |
| total volume | 12 l. |
| dimension/weight | 39x39x42 cm / 6,8 kg |

Windy 120 IF



NEW



Equipped with:

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

Standard equipment:

- 5.209.0077 Hose 2,5 m



- 6.205.0109



- 3.754.0005



- 3.754.0015



- 3.754.0004



- 3.754.0168



- 3.754.0169



- 3.754.0170



- 5.209.0009



- 3.752.0175



- 3.752.0114



- Power cable 7,5 m

Optional:

- code. 5.212.0022 Paper collector filter set
- code. 5.212.0043 Cloth filter
- code. 3.754.0205 Brush flor/carpet with wheels
- code. 3.754.0081 Brush carpet Turbo brush Type 2
- code. 5.212.0029 Cartridge filter
- code. 5.212.0037 HEPA filter
- code. 5.212.0040 Washable filter

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

Windy 130 IF



NEW



Standard equipment:

- 5.209.0077 Hose 2,5 m



- 6.205.0109



- 3.754.0005



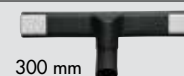
- 3.754.0015



- 3.754.0004



- 3.754.0168



300 mm

- 3.754.0169



- 3.754.0170



- 5.212.0040



- 3.752.0175



- 3.752.0114



- Power cable 7,5 m

Optional:

- code. 5.212.0022 Paper collector filter set
- code. 5.212.0043 Cloth filter
- code. 3.754.0205 Brush floor/carpet with wheels
- code. 3.754.0081 Brush carpet Turbo brush Type 2
- code. 5.212.0029 Cartridge filter
- code. 5.212.0037 HEPA filter
- code. 5.212.0040 Washable filter

Equipped with:

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

| Windy 130 IF | |
|--------------------------|--------------------------------|
| code | 8.250.0001 |
| voltage | 220-240V ~ 50-60Hz |
| n°motors - power (max) | 1 - 1200 (1400) W |
| column depression | 24 kPa/2400 mmH ₂ O |
| air suction | 65 l/s |
| total volume/dust/liquid | 30 l./15 l./17 l. |
| dimension/weight | 37x37x71 cm / 8,5 Kg |

Windy 265 PF



Standard equipment:

- 5.209.0021 Hose 2,5 m 

- 6.205.0126 

- 3.754.0048 

- 3.754.0049 

- 3.754.0083  400 mm

- 3.754.0084 

- 3.754.0085 

- 6.205.0151 

- Power cable 7,5 m

Optional:

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



Watch the video on youtube:
www.youtube.com/ctmcleaning

Equipped with:

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

| Windy 265 PF | |
|--------------------------|--------------------------------|
| code | 8.239.0008 |
| voltage | 220-240V ~ 50-60Hz |
| n°motors - power (max) | 2 - 2000 (2400) W |
| column depression | 22 kPa/2200 mmH ₂ O |
| air suction | 130 l/s |
| total volume/dust/liquid | 65 l./30 l./40 l. |
| dimension/weight | 44x46x96 cm / 13 kg |

Windy 265 IF



Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



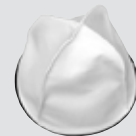
- 3.754.0084



- 3.754.0085



- 6.205.0151



- Power cable 7,5 m

Optional:

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



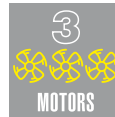
Watch the video on youtube:
www.youtube.com/ctmcleaning

Equipped with:

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

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

Windy 365 IR



Standard equipment:

- 5.209.0021 Hose 2,5 m 

- 6.205.0126 

- 3.754.0048 

- 3.754.0049 

- 3.754.0083  400 mm

- 3.754.0084 

- 3.754.0085 

- 6.205.0151 

- Power cable 7,5 m

Optional:

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



Watch the video on youtube:
www.youtube.com/ctmcleaning

Equipped with:

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

| | Windy 365 IR |
|--------------------------|--------------------------------|
| code | 8.240.0001 |
| voltage | 220-240V ~ 50-60Hz |
| n°motors - power (max) | 3 - 3000 (3600) W |
| column depression | 22 kPa/2200 mmH ₂ O |
| air suction | 195 l/s |
| total volume/dust/liquid | 65 l./30 l./40 l. |
| dimension/weight | 62x51x100 cm / 20 kg |

Heavy duty range



The new Professional range of CTM vacuum cleaners provides the solution for every kind of heavy duty daily use.

The models of the wet and dry series are equipped with 1 up to 3 double stage motor (1.2 to 3.6 kW), different tank capacities (50 and 78 l.), tilting or fixed tank and PPL antishock or stainless steel tanks.

Designed to be user friendly, they are equipped with ergonomic handle, big wheels and stable trolley offering the final answer to the needs of cleaning contractors, industries, workshops, car washing station etc. The accessories sets allowing all the different operation of wet and dry suction, are designed to be stressless for the end user (using longer extension pipes) and can easily fit and change quickly one to the other.

The antishock feature has to be considered a big advantage when metal dust, flour and all the different types of dirt creating ESD electrostatic discharge are collected inside the tank. This feature avoids shocks to the end user, making usage easier.

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

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

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

Scirocco SP 150F



Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0185



300 mm

- 3.754.0169



- 3.754.0247



- 6.205.0011



- 6.205.0008



- Power cable 7,5 m

Optional:

- code. 5.212.0022 Paper collector filter set
- code. 5.212.0094 Nylon filter
- code. 5.212.0020 Washable filter
- code. 5.212.0006 Cartridge filter
- code. 5.212.0010 HEPA filter

Equipped with:

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

| Scirocco SP150F | |
|--------------------------|----------------------------------|
| code | 8.215.0518 |
| voltage | 220-240V ~ 50-60Hz |
| n°motors - power (max) | 1 - 1200 (1400) W silenced motor |
| column depression | 24 kPa/2400 mmH ₂ O |
| air suction | 54 l/s |
| total volume/dust/liquid | 50 l./21 l./35 l. |
| dimension/weight | 62x51x85 cm / 16,5 kg |

Scirocco SP 278F



Standard equipment:

- 5.209.0021 Hose 2,5 m



- 6.205.0126



- 3.754.0048



- 3.754.0049



- 3.754.0083



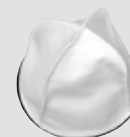
- 3.754.0084



- 3.754.0246



- 5.509.0039



- Power cable 7,5 m

Optional:

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

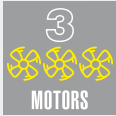
Equipped with:

- Silenced two stage motor. • Suction system with by-pass cooling. • Plastic tank (PP).
- Professional closing hooks. • Drain hose system. • Shock proof trolley. • Liquid float valve. • Cloth filter. • 7,5 m power cable. • Easy standing head (during filter cleaning). • Traceless wheels. • Accessories Ø 40

Scirocco SP 278F

| | |
|--------------------------|--|
| code | 8.216.0516 |
| voltage | 220-240V ~ 50-60Hz |
| n°motors - power (max) | 2 - 2000 (2400) W silenced two stage motor |
| column depression | 24 kPa/2400 mmH ₂ O |
| air suction | 108 l/s |
| total volume/dust/liquid | 78 l./35 l./48 l. |
| dimension/weight | 62x51x96 cm / 23 kg |

Scirocco SP 378F



Standard equipment:

- 5.209.0021 Hose 2,5 m 

- 6.205.0126 

- 3.754.0048 

- 3.754.0049 

- 3.754.0083  400 mm

- 3.754.0084 

- 3.754.0246 

- 5.509.0039 
- Power cable 7,5 m

Optional:

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

Equipped with:

- Silenced two stage motor. • Suction system with by-pass cooling. • Plastic tank (PP).
- Professional closing hooks. • Drain hose system. • Shock proof trolley. • Liquid float valve. • Cloth filter. • 7,5 m power cable. • Easy standing head (during filter cleaning). • Traceless wheels. • Accessories Ø 40

Scirocco SP 378F

| | |
|--------------------------|--|
| code | 8.217.0513 |
| voltage | 220-240V ~ 50-60Hz |
| n°motors - power (max) | 3 - 3000 (3600) W silenced two stage motor |
| column depression | 24 kPa/2400 mmH ₂ O |
| air suction | 162 l/s |
| total volume/dust/liquid | 78 l./35 l./48 l. |
| dimension/weight | 62x51x96 cm / 25 kg |

Libeccio LX 150F



Standard equipment:

- 5.209.0102 Hose 2,5 m



- 3.753.0039



- 3.754.0048



- 3.754.0049



- 3.754.0200



- 3.754.0169



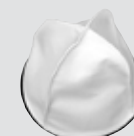
- 3.754.0170



- 6.205.0011



- 6.205.0008



- Power cable 7,5 m

Optional:

- code. 5.212.0022 Paper collector filter set
- code. 5.212.0094 Nylon filter
- code. 5.212.0020 Washable filter
- code. 5.212.0006 Cartridge filter
- code. 5.212.0010 HEPA filter

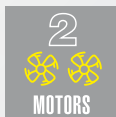
Equipped with:

- Silenced two stage motor. • Suction system with by-pass cooling. • S/S tank.
- Professional closing hooks. • Drain hose system.
- Shock proof trolley. • Liquid float valve. • Cloth filter. • 7,5 m power cable. • Easy standing head (during filter cleaning). • Traceless wheels. • Accessories Ø 40

Libeccio LX 150F

| | |
|--------------------------|--------------------------------|
| code | 8.215.0517 |
| voltage | 220-240V ~ 50-60Hz |
| n°motors - power (max) | 1 - 1200 (1400) W |
| column depression | 24 kPa/2400 mmH ₂ O |
| air suction | 55 l/s |
| total volume/dust/liquid | 50 l./21 l./35 l. |
| dimension/weight | 45x45x60 cm / 19 kg |

Libeccio LX 278F



Standard equipment:

- 5.209.0102 Hose 2,5 m



- 3.753.0039



- 3.754.0048



- 3.754.0049



- 3.754.0201



- 3.754.0084



- 3.754.0085



- 5.509.0039



- Power cable 7,5 m

Optional:

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

Equipped with:

- Silenced two stage motor. • Suction system with by-pass cooling. • S/S tank.
- Professional closing hooks. • Drain hose system.
- Shock proof trolley. • Liquid float valve. • Cloth filter. • 7,5 m power cable. • Easy standing head (during filter cleaning). • Traceless wheels. • Accessories Ø 40

Libeccio SX 278F

| | |
|--------------------------|--|
| code | 8.216.0515 |
| voltage | 220-240V ~ 50-60Hz |
| n°motors - power (max) | 2 - 2000 (2400) W silenced two stage motor |
| column depression | 24 kPa/2400 mmH ₂ O |
| air suction | 108 l/s |
| total volume/dust/liquid | 78 l./35 l./48 l. |
| dimension/weight | 62x51x96 cm / 29 kg |

Libeccio LX 378F



Standard equipment:

- 5.209.0102 Hose 2,5 m



- 3.753.0039



- 3.754.0048



- 3.754.0049



- 3.754.0201



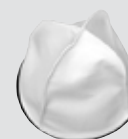
- 3.754.0084



- 3.754.0085



- 5.509.0039



- Power cable 7,5 m

Optional:

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

Equipped with:

- Silenced two stage motor. • Suction system with by-pass cooling. • S/S tank.
- Professional closing hooks. • Drain hose system.
- Shock proof trolley. • Liquid float valve. • Cloth filter. • 7,5 m power cable. • Easy standing head (during filter cleaning). • Traceless wheels. • Accessories Ø 40

Libeccio SX 378F

| | |
|--------------------------|--|
| code | 8.217.0512 |
| voltage | 220-240V ~ 50-60Hz |
| n°motors - power (max) | 3 - 3000 (3600) W silenced two stage motor |
| column depression | 24 kPa/2400 mmH ₂ O |
| air suction | 162 l/s |
| total volume/dust/liquid | 78 l./35 l./48 l. |
| dimension/weight | 62x51x96 cm / 31 kg |

Is it better a petrol engine driven or a battery powered model?

The use of a petrol engine implies the presence of exhaust gasses and therefore the machine must be used only in outside areas or in areas where the operator is not exposed at such risk. The battery models can be used also inside. From the technical and qualitative point of view the sweepers do exactly the same cleaning task, but the petrol engine machine can work nonstop (it is only necessary to fill up the tank with petrol), while the electric models, once the battery is empty, need to be re-charged (an average of 8-10 hours of charge, if battery is completely worn-out)

How should the brush be?

In the sweepers, there are two types of bushes: the first one rotates with a perpendicular axle to the floor (this is the one called "side brush"), it is useful to move dirt into the collecting area and to reach dirt near borders or under edges; the second one rotates with a parallel axle to the floor (this is the one called "main brush"); it rotates counterclockwise (opposite) to the forward direction of machine and collects dirt into the collection tank. The brushes differ in the shape (round flat the "side brush" and cylindrical the "main brush"), in the type of bristles (the way bristles are arranged on the brush body), in the body material (that accordingly to options, provides resistance still in humid environment or competitive construction) and in the bristle material /diameter/shape. Generally, the stiffer and rougher the bristles are, the better they collect the heaviest dirt adherent to the floor (typically wet leaves). The more flexible and thinner the bristles are, the better they collect light and thin dirt. To have a better scraping action, it is necessary to add steel bristle to the 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.

How long do battery charges last?

It is impossible to determine exactly how long a battery charge lasts. Battery autonomy changes depending on type of surface, dirt quantity, brush type and way in which traction system is used (speed and slope). Battery life is made up of number of charge cycles (also incomplete), if use conditions, charge and service are perfectly observed. Manufacturing technology diversifies numbers of cycles, service needed, use/charge conditions and performances.

Which kind of battery technology?

Batteries have different prices and so it is important to know their features in order to choose the best one as far as the operator's needs or habits are concerned.

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

Acid lead batteries (Pb-Acid), need refilling, because during the charge cycle a lot of gasses are generated (for this reason a specific and aired room is necessary for safe working) and the solution vaporizes: it is necessary to add distilled water before the submerged lead parts that are no more covered with water begin to oxidize

(compromised efficiency).

VRLA batteries (Valve Regulated Lead Acid) are airtight, this means that gasses generated during the charge cycle are rearranged inside the battery: refilling is not necessary, it is possible to charge them in any room and they can be carried without risk.

Acid lead batteries divide themselves into categories depending on the thickness of plate they are built of: if the plate is plane, the resistance to discharge is lower and few charge cycles are necessary, if the plate is tubular (or armed, recognizable opening the battery cap and verifying that the plate is made up of a lot of cylinders side by side instead of a thin leaf sheet) there is a higher resistance to discharge and to charge cycles.

VRLA batteries divide themselves depending on the condition (liquid or gel) of the acid solution (that enables energy exchange) and on the way it is kept inside the battery: if it is liquid and kept by a spongy and filamentous material, the battery is called AGM; if it is a gel solution inside a membrane, the battery is called GEL battery. On the market there are a lot of products completely different in features and value and it is very important to know the manufacturing details to couple the right battery charger (it is not sure that any battery charger is suited and get a better result than the ones in our range that are specific for our batteries) and to come up to the working expectations.

Whatever technology may be it is important to know that batteries have a common effect of self discharge (different for each type of manufacturing technology) and so it is important a recurrent charge (each three months approximately) if they are unused for long periods of time. Batteries suffer from incomplete charge cycle (except "pure lead" technology) and so it is necessary to charge them at the end of the working day (our battery charger is going to supply only the necessary energy and the charge cycle is going to finish earlier). It is also important not to cut off the charge before the battery charger has finished the cycle (green light). Respecting these simple rules, the best result and the best machine output will be obtained.



• **Belt drive**

The circular section grants a high resistance, stillness, reliability and it doesn't need service.



• **Side brush exclusion**

It is a system protecting bristles during machine stop or whenever it is not necessary to use it.



• **Dust vacuum system**

It can be found in the main brush area. Together with the mechanical action, it conveys waste and dust that are collected into the tank through the right filters supplied.



• **Front dust vacuum system**

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

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



• **Flap raise system**

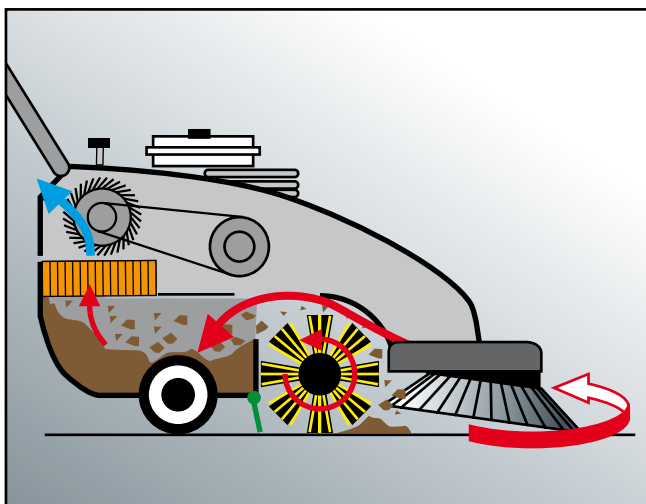
The main brush collection area is delimited by protections (flaps) touching the ground, better vacuum effect. With a big residual is possible to raise the flap collecting it rather

than keep going pushing it on the floor



• **Filter shaker**

It clears filter from dust without touching it or opening the sweeper; the vacuum efficiency is kept at max, granting the best comfort and output for the user.





BSW 651 M



CSW 568 BT



CSW 568 G



CSW 788 BT



CSW 788 G

| 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 | | Pcs x pallet |
|------------|------------------|------|----------------|------------|------------------|---------------------------|-----------------------------|----------------|----------------------|---------------------|-----------------------|------------------------------------|--------------|
| | | | | | mm / inc | mm / inc | mm / inc | | | | lt/gal | m ² / foot ² | |
| 0.042.0101 | BSW 651 M | 56 | manual | Manual | 500/19,68 | 700/27,56 | - | 40/10,58 | 1500/16146 | 79x76x46/31x29x18 | 25 | 55 | 5 |
| 0.061.0019 | CSW 568 BT | 57 | electric | Mechanical | 510/20,08 | 680/26,77 | - | 45/11,89 | 2620/28201 | 126x63x85/50x25x34 | 78 | 172 | 1 |
| 0.061.0020 | CSW 568 BT | 57 | gasoline motor | Mechanical | 510/20,08 | 680/26,77 | - | 45/11,89 | 2620/28201 | 126x63x85/50x25x34 | 77 | 169 | 1 |
| 0.061.0021 | CSW 788 G | 58 | electric | Mechanical | 710/27,95 | 880/34,64 | - | 60/15,85 | 3700/39826 | 126x83x85/50x33x34 | 89 | 196 | 1 |
| 0.061.0022 | CSW 788 G | 58 | gasoline motor | Mechanical | 710/27,95 | 880/34,64 | - | 60/15,85 | 3700/39826 | 126x83x85/50x33x34 | 97 | 213 | 1 |
| 0.061.0023 | CSW R785 BT | 59 | electric | hydraulic | 650/25,59 | 850/33,46 | - | 55/14,53 | 4900/52743 | 115x80x120/45x31x47 | 186 | 409 | 1 |
| 0.061.0024 | CSW R792 BT | 60 | electric | hydraulic | 700/27,56 | 920/36,22 | 1230/48,42 | 62/16,38 | 6200/66735 | 143x91x114/56x36x45 | 260 | 572 | 1 |
| 0.061.0025 | CSW R792 G | 60 | gasoline motor | hydraulic | 700/27,56 | 920/36,22 | 1230/48,42 | 62/16,38 | 8280/89124 | 143x91x114/56x36x45 | 300 | 660 | 1 |
| 0.061.0026 | CSW R792 BT Plus | 61 | electric | hydraulic | 700/27,56 | 920/36,22 | 1230/48,42 | 62/16,38 | 6200/66735 | 163x91x114/66x36x45 | 310 | 682 | 1 |



CSW R785 BT



CSW R792 BT
CSW R792 G



CSW R792 BT Plus
CSW R792 G Plus



CSW R810 BT
CSW R810 G

| Code | Model | Page | Type | Traction | Main brush width mm / inc | Main brush + 1 side brush mm / inc | Main brush + 2 side brushes mm / inc | Collector tank lt/gal | Max working capacity m ² / foot ² | Packaging L x l x H cm / inc | Weight with packaging kg | Weight with packaging lbs | Pcs x pallet n° |
|------------|-----------------|------|----------------|-----------|------------------------------|--|--|--------------------------|--|------------------------------------|-----------------------------|------------------------------|--------------------|
| 0.061.0027 | CSW R792 G Plus | 61 | gasoline motor | hydraulic | 700/27,56 | 920/36,22 | 1230/48,42 | 62/16,38 | 8280/89124 | 163x91x114/66x36x45 | 350 | 770 | 1 |
| 0.061.0038 | CSW R810 BT | 62 | electric | hydraulic | 800/31,50 | 1050/41,34 | 1300/51,18 | 115/30 | 9700/104409 | 160x101x130/65x43x52 | 375 | 825 | 1 |
| 0.061.0035 | CSW R810 G | 62 | Diesel motor | hydraulic | 800/31,50 | 1050/41,34 | 1300/51,18 | 115/30 | 9700/104409 | 160x101x130/65x43x52 | 434 | 955 | 1 |

BSW 651 M

Standard accessories:



0.942.0050 PP



0.942.0037 PP



Equipped with:

- Ideal for small and medium surfaces • Easy handling • Wide collector tank with safety lock • Side brush lifting • Main brush pressure regulation • Separate side brush • Adjustable working load on the brush • Tilting handle • 360° front wheel • Die casting brush arm • Traceless wheels • Shock proof frame • Hourly efficiency (max) 1500 m²/h.

| BSW 651 M | |
|---------------------------------|--|
| code | 0.042.0101 |
| main brush width | 500mm / 19,68 inc |
| main brush + 1 side brush width | 700mm / 27,56 inc |
| collector tank/emptying system | 40 lt -10,58 gal / manual |
| max working capacity | 1500 m ² /h - 16146 ft ² |
| traction | manual |
| brushes transmission | elastic belt |
| pressure on the brushes | adjustable |
| side brush | lifting arm system |
| dust-laying system | direct |
| frame material | steel |
| dimension / weight | 79 x 76 x 46 cm/25 kg |



**ELECTRIC
FILTER SHAKER
(BT models)**

CSW 568 G



Standard accessories:



0.961.0008
PP CSW 568 BT
0.961.0012
PP-Mixed steel
CSW 568 G



0.961.0005 PP



0.961.0001
paper filter 14 µm



Watch the video on youtube:
www.youtube.com/ctmcleaning

Equipped with:

- Ideal for medium and large surfaces
- Large filter surface with electric filter shaker (BT model)
- Manual filter shaker (G model)
- Side brush raising control
- Suction switch off
- Flap raise system
- Panel filter in horizontal position
- Main brush pressure regulation
- Indirect back collection
- Quick main brush release
- Long life elastic belts
- Reclining handle
- Suction selection lever. Traction lever. Antistatic device. Wide collector tank
- Heavy duty steel frame
- Side brush mechanical engagement
- Battery and battery charger not included.

CSW 568 BT



Optional:



0.961.0028 Side brush protection



0.961.0016 PE panel filter 5µm



0.961.0018 HEPA panel filter



Batteries



Battery charger

- 0.961.0026 Trolley for collector tank set

| | CSW 568 BT | CSW 568 G |
|---------------------------------|--|--|
| code | 0.061.0019 | 0.061.0020 |
| main brush width | 510mm / 20,08 inc | 510mm / 20,08 inc |
| main brush + 1 side brush width | 680mm / 26,77 inc | 680mm / 26,77 inc |
| collector tank | 45 lt / 11,89 gal | 45 lt / 11,89 gal |
| max working capacity | 2620 m ² /h-28201 ft ² | 2620 m ² /h-28201 ft ² |
| traction | mechanical | mechanical |
| max speed | 4 km/h-2,49 mile/h | 4 km/h-2,49 mile/h |
| motor type / power | 12V / 400W | Honda 4 HP / 2,9kW |
| filtering surface | 2 m ² / 21,53 ft ² | 2 m ² / 21,53 ft ² |
| pressure on the brushes | adjustable | adjustable |
| filter shaker | electric | manual |
| dimension / weight | 126x63x85cm / 78kg | 126x63x85cm / 77kg |

CSW 788 BT

**ELECTRIC
FILTER SHAKER
(BT models)**



Watch the video on youtube:
www.youtube.com/ctmcleaning



Standard accessories:



0.961.0009
PP CSW 788 BT

0.961.0013
PP-Mixed steel
CSW 788 G



0.961.0005 PP



0.961.0002
paper filter 14 µm

Equipped with:

- Ideal for medium and large surfaces
- Large filter surface with electric filter shaker (BT model)
- Manual filter shaker (G model)
- Side brush raising control
- Suction switch off
- Flap raise system
- Panel filter in horizontal position
- Main brush pressure regulation
- Indirect back collection
- Quick main brush release
- Long life elastic belts
- Reclining handle
- Suction selection lever
- Traction lever
- Antistatic device
- Wide collector tank
- Heavy duty steel frame
- Side brush mechanical engagement
- Battery and battery charger not included.

CSW 788 G



Optional:



0.961.0028 Side
brush protection



0.961.0017
PE panel filter
5µm



0.961.0019
HEPA panel
filter



Batteries



Battery charger

- 0.961.0027 Trolley for collector tank set

| | CSW 788 BT | CSW 788 G |
|---------------------------------|---|---|
| code | 0.061.0021 | 0.061.0022 |
| main brush width | 710mm / 27,95 inc | 710mm / 27,95 inc |
| main brush + 1 side brush width | 880mm / 34,64 inc | 880mm / 34,64 inc |
| collector tank | 60 lt / 15,85 gal | 60 lt / 15,85 gal |
| max working capacity | 3700m ² /h-39826 ft ² | 3700m ² /h-39826 ft ² |
| traction | mechanical | mechanical |
| max speed | 4 km/h-2,49mile/h | 4 km/h-2,49mile/h |
| motor type / power | 12V / 400W | Honda 4 HP / 2,9kW |
| filtering surface | 3,02 m ² / 32,50 ft ² | 3,02 m ² / 32,50 ft ² |
| pressure on the brushes | adjustable | adjustable |
| filter shaker | electric | manual |
| dimension / weight | 126x83x85 cm / 89 kg | 126x83x85 cm / 97 kg |

CSW R785 BT



**ELECTRIC
FILTER SHAKER**

**Equipped with:**

- Ideal for large surfaces • Large filter surface distributed on 5 cartridge filters fitted with electric filter shaker • Side brush raising control • Suction switch off • Flap raise system
- Flashing light • Main brush pressure regulation • Indirect back collection • Front dust vacuum system • Quick changing of the main brush and side brush without tools • Long life elastic belts
- Suction selection lever • Shock proof steel frame • Traction lever • Antistatic device • Wide collector tank • Heavy duty steel frame • Perfectly balanced weight of the components, thus resulting in totally safe quick changes of direction • Battery and battery charger not included.

Standard accessories:

0.961.0010 PP



0.961.0006 PP

5 x 0.961.0003
paper filter 14 µm**Optional:**

- Cartridge polyester filter
code: 0.961.0020

- Hepa cartridge filter
code: 0.961.0180

0.961.0021 Left
side arm brush (with
brush)

Batteries



Battery charger

CSW R785 ST

| | |
|------------------------------|--|
| code | 0.061.0023 |
| main brush width | 650 mm / 25,59 inc |
| main brush + 1 side brush | 850 mm / 33,46 inc |
| collector tank | 55 lt / 14,53 gal |
| max working capacity | 4900 m ² /h-52743 ft ² |
| traction / limiting gradient | front wheels / 14% |
| max speed | 5,8 km/h-3,60 mile/h |
| motor type / power | 24V / 1670 W (5 motors) |
| filtering surface | 4 m ² / 43,06 ft ² |
| pressure on the brushes | adjustable |
| filter shaker | electric |
| dimension / weight | 115x80x120cm/186 kg |



**ELECTRIC
FILTER SHAKER**

CSW R792 BT CSW R792 G



Equipped with:

- Ideal for large surfaces • Large filter surface distributed on 6 cartridge filters fitted with electric filter shaker • Side brush raising control • **Complete right/left side brush** • Suction switch off • Lift flap pedal • Flashing light • Main brush pressure regulation • Indirect back collection • Front dust vacuum system • Quick changing of the main brush and side brush without tools • Long life elastic belts • Suction selection lever • Shock proof steel frame • Traction lever • Antistatic device • Battery level indicator • Wide collector tank • Heavy duty steel frame • Adjustable seat • Perfectly balanced weight of the components, thus resulting in totally safe quick changes of direction • Battery and battery charger not included. • Front light system (optional on request).

Standard accessories:



0.961.0011 PP
CSW R792 BT

0.961.0015
PP-Mixed steel
CSW R792 G



0.961.0007
PP CSW R792 BT

0.961.0023
PP-Mixed steel
CSW R792 G



6 x 0.961.0004
paper filter 14 µm

Optional:

- Steel collector tank
code: 0.961.0029
- Front light system
(on request)
- Anti-trace wheels,
code: 0.961.0031
- Polyester filters
code: 0.961.0024
- Hepa filters
code: 0.961.0025



0.961.0030 Side
brush protection



Watch the video on youtube:
www.youtube.com/ctmcleaning

| | CSW R792 BT | CSW R 792 G |
|------------------------------|--|--|
| code | 0.061.0024 | 0.061.0025 |
| main brush width | 700 mm / 27,56 inc | 700 mm / 27,56 inc |
| main brush + 1 side brush | 920 mm / 36,22 inc | 920 mm / 36,22 inc |
| main brush + 2 side brushes | 1230 mm / 48,42 inc | 1230 mm / 48,42 inc |
| collector tank | 62 lt / 16,38 gal | 62 lt / 16,38 gal |
| max working capacity | 6200 m ² /h-66736 ft ² | 8280 m ² /h-89125 ft ² |
| traction / limiting gradient | rear wheels / 12% | front wheel / 14% |
| max speed | 5,8 km/h-3,60 mile/h | 5,8 km/h-3,60 mile/h |
| motor type / power | 24V / 1150W | Honda 5,5 HP / 4,1kW |
| filtering surface | 6 m ² / 64,6 ft ² | 6 m ² / 64,6 ft ² |
| filter shaker | electric | electric |
| dimension / weight | 143x91x114cm/260kg | 143x91x114cm/300kg |



**ELECTRIC
FILTER SHAKER**

CSW R792 BT PLUS CSW R792 G PLUS



Standard accessories:



0.961.0011 PP
CSW R792 BT

0.961.0015
PP-Mixed steel
CSW R792 G



0.961.0007
PP SWL R 1000 ET

0.961.0023
PP-Mixed steel SWL R
1000 ST



6 x 0.961.0004
paper filter 14 µm

Optional:

- Steel collector tank
code: 0.961.0029
- Front light system
(on request)
- Anti-trace wheels,
code: 0.961.0031
- Polyester filters
code: 0.961.0024
- Hepa filters
code: 0.961.0025



0.961.0030 Side
brush protection

Equipped with:

- Ideal for large surfaces
- Large filter surface distributed on 6 cartridge filters fitted with electric filter shaker
- Side brush raising control
- Unload device for tank emptying into dust containers up to 110 cm height
- **Complete right/left side brush**
- Suction switch off.
- Lift flap pedal
- Flashing light
- Main brush pressure regulation
- Indirect back collection
- Front dust vacuum system
- Quick changing of the main brush and side brush without tools
- Long life elastic belts
- Suction selection lever
- Shock proof steel frame
- Traction lever
- Antistatic device
- Battery level indicator
- Wide collector tank
- Heavy duty steel frame
- Adjustable seat
- Perfectly balanced weight of the components, thus resulting in totally safe quick changes of direction
- Battery and battery charger not included.
- Front light system (optional on request).

| | CSW R792 BT PLUS | CSW R 792 G PLUS |
|------------------------------|---|---|
| code | 0.061.0026 | 0.061.0027 |
| main brush width | 700mm / 27,56 inc | 700mm / 27,56 inc |
| main brush + 1 side brush | 920mm / 36,22 inc | 920mm / 36,22 inc |
| main brush + 2 side brushes | 1230mm / 48,42 inc | 1230mm / 48,42 inc |
| collector tank | 62 lt / 16,38 gal | 62 lt / 16,38 gal |
| max working capacity | 6200m ² /h-66736 ft ² | 8280m ² /h-89125 ft ² |
| traction / limiting gradient | rear wheels / 12% | front wheel / 14% |
| max speed | 5,8km/h-3,60mile/h | 5,8km/h-3,60mile/h |
| motor type / power | 24V / 1150W | Honda 5,5 HP / 4,1kW |
| filtering surface | 6 m ² / 64,6 ft ² | 6 m ² / 64,6 ft ² |
| filter shaker | electric | electric |
| dimension / weight | 163x91x114cm/310kg | 163x91x114cm/350kg |



**ELECTRIC
FILTER SHAKER**



CSW R810 BT CSW R810 G



Standard accessories:



0.961.0176 PP
CSW R810 BT



0.961.0178
PP-Mixed steel
CSW R810 G

0.961.0177 PP
CSW R810 BT

0.961.0179
PP-Mixed steel
CSW R810 G



8 x 0.961.0003
paper filter 14 µm

Optional:

- Cartridge polyester filter
code: 0.961.0020
- Hepa cartridge filter
code: 0.961.0180

Equipped with:

- Ideal for large surfaces. • Large filter surface distributed on 8 cartridge filters fitted with electric filter shaker. • Side brush raising control. • On request DSA unload device for tank emptying into dust containers up to 145 cm height. • **Complete right/left side brush.** • Anti-trace wheels (mod.BT). • Suction switch off. • Lift flap pedal. • Flashing light. • Main brush pressure regulation. • 90° steering angle. • Electric starter. • Service and parking brake. • Hour meter and klaxon. • Antislip platform. • Indirect back collection. • Front dust vacuum system. • Quick changing of the main brush and side brush without tools. • Long life elastic belts. • Suction selection lever. • Shock proof steel frame. • Traction lever. • Antistatic device. • Battery level indicator (mod.BT). • 115 lt wide collector tank. • Heavy duty steel frame. • Adjustable seat. • Front working light system. • Battery and battery charger not included.

| | CSW R810 BT | CSW R810 G |
|------------------------------|---|---|
| code | 0.061.0038 | 0.061.0035 |
| main brush width | 800mm / 31,50 inc | 800mm / 31,50 inc |
| main brush + 1 side brush | 1050mm / 41,34 inc | 1050mm / 41,34 inc |
| main brush + 2 side brushes | 1300mm / 51,19 inc | 1300mm / 51,19 inc |
| collector tank | 115 lt / 30 gal | 115 lt / 30 gal |
| max working capacity | 9700 m ² /h-104409 ft ² | 9700 m ² /h-104409 ft ² |
| traction / limiting gradient | front wheels / 12% | front wheel / 20% |
| max speed | 7,5 km/h-4,66 mile/h | 7,5 km/h-4,66 mile/h |
| motor type / power | 24V / 1,91 kW | Diesel Yanmar-6,7 Hp / 4,92 kW |
| filtering surface | 6,4 m ² / 68,89 ft ² | 6,4 m ² / 68,89 ft ² |
| filter shaker | electric | electric |
| dimension / weight | 160x101x130 cm/375 kg | 160x101x130 cm/434 kg |

Accessories

| | | | BSW 651 M | CSW 568 BT | CSW 568 G | CSW 788 BT | CSW 788 G | CSW R785 BT | CSW R792 BT | CSW R792 G | CSW R792 BT PLUS | CSW R792 G PLUS | CSW R810 BT | CSW R810 G |
|------------|------------------------|---|-----------|------------|-----------|------------|-----------|-------------|-------------|------------|------------------|-----------------|-------------|------------|
| | 0.961.0001 | paper panel filter 14 micron | | S | S | | | | | | | | | |
| | 0.961.0002 | paper panel filter 14 micron | | | | S | S | | | | | | | |
| | 0.961.0016 | polyester panel filter 5 micron | | O | O | | | | | | | | | |
| | 0.961.0018 | Hepa panel filter | | O | O | | | | | | | | | |
| | 0.961.0017 | polyester panel filter 5 micron | | | | O | O | | | | | | | |
| 0.961.0019 | Hepa panel filter | | | | O | O | | | | | | | | |
| | 0.961.0003 | cartridge paper filter 14 micron | | | | | | S | | | | | S | S |
| | 0.961.0004 | cartridge paper filter 14 micron | | | | | | | S | S | S | S | | |
| | 0.961.0020 | cartridge polyester filter 20 micron | | | | | | O | | | | | O | O |
| | 0.961.0024 | cartridge polyester filter 20 micron | | | | | | | O | O | O | O | | |
| | 0.961.0025 | Hepa cartridge filter | | | | | | | O | O | O | O | | |
| 0.961.0180 | Hepa cartridge filter | | | | | | O | | | | | O | O | |
| | 0.942.0037 | PP side brush | S | | | | | | | | | | | |
| | 0.961.0005 | PP side brush | | S | S | S | S | | | | | | | |
| | 0.961.0006 | PP side brush | | | | | | S | | | | | | |
| | 0.961.0007 | PP side brush | | | | | | | S | O | S | O | | |
| | 0.961.0177 | PP side brush | | | | | | | | | | | S | O |
| | 0.961.0181 | mixed steel side brush | | O | O | O | O | | | | | | | |
| | 0.961.0023 | mixed steel side brush | | | | | | | O | S | O | S | | |
| 0.961.0179 | mixed steel side brush | | | | | | | | | | | O | S | |
| | 0.942.0050 | PP main brush | S | | | | | | | | | | | |
| | 0.961.0008 | PP - moplen body main brush - bristle d. 0,5 mm | | S | O | | | | | | | | | |
| | 0.961.0009 | PP - moplen body main brush - bristle d. 0,5 mm | | | | S | O | | | | | | | |
| | 0.961.0010 | PP - moplen body main brush - bristle d. 0,5 mm | | | | | | S | | | | | | |
| | 0.961.0011 | PP - moplen body main brush - bristle d. 0,5 mm | | | | | | | S | O | S | O | | |
| | 0.961.0176 | PP - moplen body main brush - bristle d. 0,5 mm | | | | | | | | | | | S | O |
| | 0.961.0012 | mixed steel - moplen body main brush | | O | S | | | | | | | | | |
| | 0.961.0013 | mixed steel - moplen body main brush | | | | O | S | | | | | | | |
| | 0.961.0014 | mixed steel - moplen body main brush | | | | | | O | | | | | | |
| | 0.961.0015 | mixed steel - moplen body main brush | | | | | | | O | S | O | S | | |
| | 0.961.0178 | mixed steel - moplen body main brush | | | | | | | | | | | O | S |
| | 0.107.0002 | Tubular battery Pb-acid - 12V 118Ah C5 | | O1 | O1 | O2 | | | | | | | | |
| | 0.107.0063 | GEL Battery 12 MFP 105 - 12V 105Ah C5 | | O1 | O1 | O2 | | | | | | | | |
| | 0.107.0004 | Tubular battery Pb-acid - 6V 180Ah C5 | | O2 | O2 | | | O4 | O4 | | | | | |
| | 0.107.0023 | Tubular battery Pb-acid - 6V 260Ah C5 | | | | | | | | | | | O4 | |
| | 0.107.0072 | GEL Battery 6 MFP 180 - 6V 180Ah C5 | | O2 | O2 | | | O4 | O4 | | | | | |

S = standard equipment O = optional

(1)-(2)= n° batteries

| | | | |
|--|------------|------------------|--|
| | 0.108.0001 | LWS 1-12/24V-12A | for battery 0.107.0002 - 0.107.0063 |
| | 0.108.0002 | LWS 2-12/24V-25A | for battery 0.107.0004 - 0.107.0072 - 0.107.0023 |



VSG is suitable to degrease and sanitize any object or surface in an easy, ecological and definitive way.

VSG 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 sanitation 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.



REGULATOR

• **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.



• **Discharge valve:**

Allows a complete discharge of the boiler (not possible even through gun use). In this way it is possible to remove water and limestone residual inside the boiler and from the coil surface. This valve maybe opened only when the boiler is not hot, and it is recommended to accomplish regularly.



• **Unlimited autonomy:**

The boiler is refilled by a water pump that gets water from an external water tank. This system allows an unlimited autonomy, because it is not necessary to turn off the steam generator and wait a lower temperature to refill with water.

An automatic control recharges the boiler when necessary. In some models there is an acoustic signal advising about low water level inside the water tank.



• **Integrated vacuum:**

Dirt is vacuumed inside a tank integrated in the machine



• **Multipurpose washable filter**

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



• **Foam system:**

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





VSG 4000



VSG 4000 FOAM



CSG 3,3

| Code | Model | Page | Absorbed power | Suction motor | Max pressure | Steam production | Max Temperature | Heating and activation time required | Water tank capacity | Detergent tank capacity | Packaging L x l x H mm L x l x h | Packaging weight | Packaging weight | Pieces for pallet |
|------------|---------------|------|----------------|---------------|--------------|------------------|-----------------|--------------------------------------|---------------------|-------------------------|---|------------------|------------------|-------------------|
| | | | W | W | bar | Kg/h | °C | min | l | l | | kg | lbs | n° |
| 8.451.0101 | VSG 4000 | 68 | 3000 | 1100 | 7 | 3,25 | 165 | 4 | 5 | 5 | 750x600x1030 | 42,5 | 93,69 | 4 |
| 8.451.0110 | VSG 4000 FR | 68 | 3000 | 1100 | 7 | 3,25 | 165 | 4 | 5 | 5 | 750x600x1030 | 42,5 | 93,69 | 4 |
| 8.451.0108 | VSG 4000 FOAM | 70 | 3000 | 1500 | 7 | 3,25 | 165 | 4 | 5 | 5 | 750x600x1030 | 42,5 | 93,69 | 4 |
| 8.453.0001 | CSG 3,3 | 72 | 3300 | - | 9 | 4,62 | 175 | 7 | 5 | 5 | 750x600x700 | 31 | 91,27 | 10 |





CSG 3,3 M plus



CSG 8T plus



CSG 10/CSG 18/CSG 30

| Code | Model | Page | Absorbed power | Suction motor | Max pressure | Steam production | Max Temperature | Heating and activation time required | Water tank capacity | Detergent tank capacity | Packaging L x l x H | Packaging weight | Packaging weight | Pieces for pallet |
|------------|---------------|------|----------------|---------------|--------------|------------------|-----------------|--------------------------------------|---------------------|-------------------------|------------------------|------------------|------------------|-------------------|
| | | | W | W | bar | Kg/h | °C | min | l | l | | mm L x l x h | kg | lbs |
| 8.450.0010 | CSG 3.3M PLUS | 74 | 3300 | - | 9 | 4,62 | 175 | 7 | 5 | 5 | 595x435x650 | 37 | 81,57 | 2 |
| 8.458.0001 | CSG 8T PLUS | 76 | 8000 | - | 9 | 13,50 | 175 | 6 | 10 | 5 | 595x435x650 | 40 | 88,18 | 2 |
| 8.452.0010 | CSG 10 | 78 | 10000 | - | 10 | 15 | 180 | 9-10 | 25 | 5 | 1300x780x1080 | 130 | 290,41 | 1 |
| 8.452.0002 | CSG 18 | 78 | 18000 | - | 10 | 22,5 | 180 | 7-10 | 25 | 5 | 1300x780x1080 | 134 | 295,41 | 1 |
| 8.452.0001 | CSG 30 | 78 | 30000 | - | 10 | 37,5 | 180 | 7-10 | 25 | 5 | 1300x780x1080 | 134 | 295,41 | 1 |



VSG 4000



Standard equipment:

- 5.211.0068 Hose 4 m



- 5.209.0151 Hose 2 m



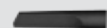
- 3.753.0085



- 3.754.0195



- 3.754.0005



- 5.209.0126



- 3.754.0192



- 3.754.0109



- 3.754.0108



- 3.754.0110



- 6.405.0207



- 3.754.0194



- 3.754.0215



- 3.754.0196



- 3.754.0197



- 3.754.0204



- 5.212.0021



Watch the video on youtube:
www.youtube.com/ctmcleaning

Equipped with:

- Stainless steel body AISI 304
- Ready steam warning lamp
- Boiler 3kW S/S AISI 304 - Thickness 25/10
- Low level water lamp indicator
- Boiler is refilled continuously
- Switch for using chemicals and detergents mixed with steam
- Device for cleaning hot water mixed with steam
- Washable filter
- Flex hose 4 m
- Recovery tank capacity 64 l
- Drain hose system
- Steam regulation
- Wheels suitable for use in food processing area
- Blower system available
- ON/OFF main switch with indicator lamp
- ON/OFF boiler switch with indicator lamp

| | VSG 4000 | VSG 4000 FR |
|------------------------------------|-----------------------------|-----------------------------|
| Code | 8.451.0101 | 8.451.0110 |
| Max steam pressure/temperature | 7 bar / 165° C | 7 bar / 165° C |
| Boiler absorbed power | 3000 W / 230V ~ 50Hz (Ph 1) | 3000 W / 230V ~ 50Hz (Ph 1) |
| Vacuum motor absorbed power | 1100 W | 1100 W |
| Column depression/Air flow | 20.39 kPa / 220 m³/h | 20.39 kPa / 220 m³/h |
| Water tank/detergent tank capacity | 5 l / 5 l | 5 l / 5 l |



New simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler ON/OFF switch with lamp, steam/detergent regulator/selector, steam flow rate regulator, steam ready warning lamp, low level water indicator lamp with buzzer, steam pressure gauge. Gun with integrated start-up control, adjustment of the vacuum power and steam function activation key.

Unlimited autonomy thanks to the continuous power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work.

Hot air output blow function for quick drying of car interiors with a 2 m flexible hose and flat nozzle supplied. Discharge pipe to quickly drain dirty water collected without removing the head. Two-stage bypass vacuum motor with cyclone effect.



Equipped with 3 pumps: boiler, detergent and water. Maximum safety thanks to the 2 safety thermostats, 1 pressure switch and 1 mechanical maximum pressure valve.

Fields of applications

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

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

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



VSG 4000 FOAM

NEW



Standard equipment:

- 5.211.0068 Hose 4 m



- 5.209.0151 Hose 2 m



- 3.753.0085



- 3.754.0195



- 3.754.0005



- 5.209.0126



- 6.402.0106



- 6.402.0107



- 6.405.0207



- 3.754.0194



- 3.754.0215



- 3.754.0196



- 3.754.0197



- 5.212.0021



Watch the video on youtube:
www.youtube.com/ctmcleaning

Equipped with:

- Stainless steel body AISI 304
- Ready steam warning lamp
- Boiler 3kW S/S AISI 304 - Thickness 25/10
- Low level water lamp indicator
- Boiler is refilled continuously
- Switch for using chemicals and detergents mixed with steam
- Device for cleaning hot water mixed with steam
- Washable filter
- Flex hose 4 m
- Recovery tank capacity 64 l
- Drain hose system
- Steam regulation
- Wheels suitable for use in food processing area
- Blower system available
- ON/OFF main switch with indicator lamp
- ON/OFF boiler switch with indicator lamp

VSG 4000 Foam

| | |
|------------------------------------|-----------------------------|
| Code | 8.451.0108 |
| Max steam pressure/temperature | 7 bar / 165° C |
| Boiler absorbed power | 3000 W / 230V ~ 50Hz (Ph 1) |
| Vacuum motor absorbed power | 1100 W |
| Column depression/Air flow | 20.39 kPa / 220 m³/h |
| Water tank/detergent tank capacity | 5 l / 5 l |



New simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler ON/OFF switch with lamp, steam function/compressed air function selector, water/detergent selector, steam flow rate regulator, steam ready indicator lamp, low water level indicator lamp with buzzer, steam pressure gauge, and air pressure gauge. Gun with integrated start-up control, adjustment of the vacuum power and

steam/foam function activation key.

Multipurpose machine: cleaning with detergent, steam, steam with detergent, foam and hot water. Equipped with a compressed air connection and pressure gauges for air and steam.

Unlimited autonomy of steam thanks to the electronically controlled power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work.



Hot air output blow function for quick drying of car interiors with a 2 m flexible hose. Discharge pipe to quickly drain dirty water from the tank. Two-stage bypass vacuum motor. Equipped with 3 pumps: boiler, detergent and water. Maximum safety thanks to the 2 safety thermostats, 1 pressure switch and 1 mechanical maximum pressure valve.

Fields of applications

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

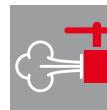
Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).

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

Foam system: Car dealers, car washers, garages, car body shops, and every other place where a source of compressed air is already available



CSG 3,3



Standard equipment:

- 5.409.0256 Hose 3 m 
- 3.753.0111 
- 3.754.0228 
- 3.754.0229 
- 3.754.0235 
- 3.754.0250 
- 3.754.0230 
- 6.405.0207 
- 6.402.0096 
- 3.754.0234 
- 6.402.0095 
- 3.099.0126 

Equipped with:

- Saturated steam at 9 bar at a temperature of 175°C
- Steam gun with low tension control
- S/S body AISI 304
- Boiler 3,3 kW S/S AISI 304. Thickness 25/10
- Low level water lamp indicator
- Device for using chemicals and detergents mixed with steam
- Heating and activation time required: 7 min.
- Steam regulation
- Discharge valve
- Pressure gauge
- The boiler can be refilled from the tank provided (continuous duty)
- Wheels suitable for food and processing areas
- Storage basket



Watch the video on youtube:
www.youtube.com/ctmcleaning

CSG 3,3

| | |
|------------------------------------|-----------------------------|
| Code | 8.453.0001 |
| Max steam pressure/temperature | 9 bar / 175° C |
| Boiler absorbed power | 3300 W / 230V ~ 50Hz (Ph 1) |
| Steam production | 4,62 kg/h |
| Boiler type/volume | Inox AISI 304 / 4 l |
| Water tank/detergent tank capacity | 5 l / 5 l |



Simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler ON/OFF switch with lamp, water/detergent selector, steam flow rate regulator, steam ready indicator lamp, low water level indicator lamp with buzzer, steam pressure gauge. Steam gun with integrated steam/detergent function activation key and quick coupling of accessories.

Unlimited autonomy thanks to the continuous power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work, with major time saving in the operating phase. Boiler with saturated steam at 9 bar at a temperature of 175°C.

Equipped with 3 pumps: boiler, detergent and water. Maximum safety thanks to the 1 safety thermostat, 1 pressure switch and



1 mechanical maximum pressure valve. Discharge valve for complete discharge of the boiler; it eliminates water residues and formation of lime scale, thus lengthening the lifespan of the boiler. A 5-litre water and detergent double tank. A rich and complete range of accessories is supplied.

Fieldswater and scale growth, extending boiler's life.

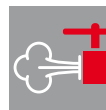
Fields of applications

Steam system:

Food & beverage (food industry, catering, beverage, winery).
Hospitality, community & healthcare (hospitality, buildings cleaning, spa & sport, education & community, healthcare).
Industry (industry, transportation, car washers, car dealers).



CSG 3,3 M plus



Standard equipment:

- 5.409.0256 Hose 3 m 

- 3.753.0111 

- 3.754.0228 

- 3.754.0229 

- 3.754.0235 

- 3.754.0250 

- 3.754.0230 

- 6.405.0240 

- 6.402.0096 

- 3.754.0234 

- 6.402.0095 

- 3.099.0126 

Equipped with:

- Saturated steam at 9 bar at a temperature of 175°C • Steam gun with low tension control • Made of AISI 304 stainless steel • Boiler 3,3 kW S. S. AISI 304. Thickness 25/10 • Heating and activation time required: 7 min. • Steam regulation
- Discharge valve • Pressure gauge • Device for using chemicals and detergents mixed with steam • The boiler can be refilled from the tank provided (continuous duty)
- Pivoting wheels with brakes, suitable for use in food processing areas.

CSG 3,3 M PLUS

| | |
|------------------------------------|-----------------------------|
| Code | 8.450.0010 |
| Max steam pressure/temperature | 9 bar / 175° C |
| Boiler absorbed power | 3.3 kW / 230V ~ 50Hz (Ph 1) |
| Steam production | 4.62 kg/h |
| Boiler type/volume | Inox AISI 304 / 4 l |
| Water tank/detergent tank capacity | 5 l / 5 l |



Simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler resistance activation lamp, steam flow rate regulator, steam ready indicator lamp, steam pressure gauge. Steam gun with integrated steam/detergent function activation key and quick coupling of accessories. Boiler no water safety stop sensor. No water and water tank full lamp. Water pump activation lamp. Detergent pump activation lamp. Water/detergent selector key.

Boiler draining key.

Unlimited autonomy thanks to the continuous power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work, with major time saving in the operating phase. Boiler with saturated steam at 9 bar at a temperature of 175°C.

Equipped with 2 pumps: boiler and detergent. Maximum safety thanks to the 1 safety thermostat, 1 pressure switch and 1



mechanical maximum pressure valve.

Discharge valve for complete discharge of the boiler; it eliminates water residues and formation of lime scale, thus lengthening the lifespan of the boiler.

Equipped with 4 pivoting wheels suitable for food environments. A 5-litre water and detergent double tank.

A rich and complete range of accessories is supplied.

Fields of applications

Steam system:

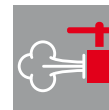
Steam system: Food & beverage (food industry, catering, beverage, winery).

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

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



CSG 8T plus



Standard equipment:

- 6.402.0080
Hose 3,5 m 
- 6.402.0082 
- 6.402.0081 
- 6.402.0083 
- 6.405.0207 
- 6.402.0046 
- 6.402.0069 
- 4.407.0033 Steam nozzle

Equipped with:

- Built-in AISI 304 stainless steel • Pivoting wheels with brakes, suitable for use in food processing areas • The boiler can be refilled from the tank provided (continuous duty) • Discharge valve • Pressure gauge • Device for using chemicals and detergents mixed with steam • Heating and activation time required: 6 min. • Control with low tension controls • Control panel: ON-OFF main switch, indicator lamp, • Saturated steam at 9 bar at a temperature of 175°C.

CSG 8T PLUS

| | |
|------------------------------------|-----------------------------|
| Code | 8.458.0001 |
| Max steam pressure/temperature | 9 bar / 175° C |
| Boiler absorbed power | 3.3 kW / 230V ~ 50Hz (Ph 1) |
| Steam production | 4.62 kg/h |
| Boiler type/volume | Inox AISI 304 / 4 l |
| Water tank/detergent tank capacity | 5 l / 5 l |



Simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch with lamp, boiler resistance activation lamp, steam flow rate regulator, steam ready indicator lamp, steam pressure gauge. Steam gun with integrated steam/detergent function activation key and quick coupling of accessories. Boiler no water safety stop sensor. No water and water tank full lamp. Water pump activation lamp. Detergent pump activation lamp. Water/detergent selector key.

Boiler draining key.

Unlimited autonomy thanks to the continuous power supply of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work, with major time saving in the operating phase. Boiler with saturated steam at 9 bar at a temperature of 175°C.

Equipped with 2 pumps: boiler and detergent. Maximum safety thanks to the 1 safety thermostat, 1 pressure switch and 1



mechanical maximum pressure valve.

Discharge valve for complete discharge of the boiler; it eliminates water residues and formation of lime scale, thus lengthening the lifespan of the boiler.

Equipped with 4 pivoting wheels suitable for food environments. A 10l water and 5l detergent double tank. A rich and complete range of accessories is supplied.

Fields of applications

Steam system:

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

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

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





CSG



Standard equipment:

- 6.402.0080
Hose with gun 3,5 m



- 6.402.0082
without nozzle



- 6.402.0081
without nozzle



- 6.402.0083
without nozzle



- 6.405.0207



- 6.402.0046



- 3.754.0069



- 4.407.0033 Steam nozzle (CSG 10)
- 4.407.0077 Steam nozzle (CSG 18)
- 4.407.0079 Steam nozzle (CSG 30)

Optional:

- 6.402.0087 Steam gun with hose (6 m)
- 6.402.0085 Steam gun with hose (10 m)
- 6.402.0093 Steam gun with hose (15 m)
- 6.402.0090 Steam gun with hose (20 m)
- 6.402.0092 Straight lance mm 750 without nozzle
- 6.405.0197 Coupling for tanks Ø 40
- 6.402.0094 Extension 650 mm
- 6.402.0097 Lance with flat nozzle
- 6.402.0098 Brass bristles brush Ø 80



Watch the video on youtube:
www.youtube.com/ctmcleaning

Equipped with:

• Built-in AISI 304 stainless steel • Pivoting wheels with brakes, suitable for use in food processing areas • The boiler can be refilled from the tank provided (continuous duty) • Temperature regulator • Discharge valve • Pressure gauge • Device for using chemicals and detergents mixed with steam • Heating and activation time required: 6 min. • Control with low tension controls • Control panel: ON-OFF main switch, indicator lamp, thermoregulator, water and warning light (with buzzer), boiler activating key, gun activating key • Saturated steam at 10 bar at a temperature of 180°C

| | CSG 10 | CSG 18 | CSG 30 |
|------------------------------------|----------------------------|----------------------------|----------------------------|
| Code | 8.452.0010 | 8.452.0002 | 8.452.0001 |
| Max steam pressure/temperature | 10 bar / 180° C | 10 bar / 180° C | 10 bar / 180° C |
| Boiler absorbed power | 10 kW / 400V ~ 50Hz (Ph 3) | 18 kW / 400V ~ 50Hz (Ph 3) | 30 kW / 400V ~ 50Hz (Ph 3) |
| Steam production | 15 kg/h | 22.5 kg/h | 37.5 kg/h |
| Boiler type/volume | Inox AISI 304 / 18 l | Inox AISI 304 / 18 l | Inox AISI 304 / 18 l |
| Water tank/detergent tank capacity | 25 l / 5 l | 25 l / 5 l | 25 l / 5 l |



Simple and intuitive control panel, quick-coupling steam gun, main ON/OFF switch, activation lamp, electronic regulator of the temperature with digital display, low water level display with buzzer, boiler activation key, gun activation key, steam pressure gauge, steam selector and detergent selector. Steam gun with integrated steam/detergent function activation key and quick coupling of accessories.

Unlimited autonomy thanks to the continuous power supply

of the boiler, which enables water top-ups in the tank without having to stop the machine or interrupt work, with major time saving in the operating phase. Boiler with saturated steam at 10 bar at a temperature of 180°C.

Equipped with 2 pumps: detergent and water. Maximum safety thanks to the 2 level controls, 1 thermostat, 1 pressure switch and 1 mechanical pressure valve. Discharge valve for complete discharge of the boiler; it eliminates water residues



and formation of lime scale, thus lengthening the lifespan of the boiler. Double tank: 25 litres for water and 5 litres for detergent. Equipped with 2 pivoting wheels and appropriate brake to use in food environments + 2 fixed wheels. A rich and complete range of accessories is supplied with practical accessory holders.

Fields of applications

Steam system:

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

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

Industry (industry, transportation).





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.

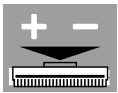


• **Brush speed:**

Means Rotation Per Minute of the brush.



PRESSURE



• **Pressure regulator:**

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

Application

| | Page | Code | Ø brush | Stripping synthetic floor (PVC) | Stripping cork present floor (linoleum) | Wet scrubbing/basic cleaning of stones, tiles and lino (sensitive floors) | Wet scrubbing/basic cleaning of synthetic or non sensitive floors pvc | Crystallizing | Carpet shampooing | Sanding wood | Sanding wood | Spray cleaning |
|-----------------------|------|------------|-----------|---------------------------------|---|---|---|---------------|-------------------|--------------|--------------|----------------|
| CDK G35 150-10 | 83 | 0.055.0220 | 330 - 13" | • | • | • | • | | • | | | • |
| CDK G45 150-13 | 83 | 0.055.0223 | 430 - 17" | • | • | • | • | • | • | • | | • |
| CDK G5 150-18 | 83 | 0.055.0224 | 430 - 17" | • | • | • | • | • | • | | • | • |
| CDK G53 150-18 | 83 | 0.055.0226 | 505 - 20" | • | • | • | • | • | • | | | • |



CDK G35



CDK G45/G53



| Code | Model | Page | Absorbed power | | Brush speed | Brush contact pressure | Handle packaging dimensions | Handle packaging weight | | Body packaging dimensions | Body packaging weight | | Pieces for pallet |
|------------|----------------|------|----------------|-----------|-------------|------------------------|-----------------------------|-------------------------|-------|---------------------------|-----------------------|--------|-------------------|
| | | | W | mm-inch | | | | Kg | lbs | | L x l x H cm | Kg | |
| 0.055.0220 | CDK G35 150-10 | 83 | 1000 | 330 - 13" | 154 | 36,7 | 38x13x109 | 5,50 | 12,12 | 42x38x25 | 19,50 | 42,99 | 24 |
| 0.055.0223 | CDK G45 150-13 | 83 | 1300 | 430 - 17" | 154 | 40,8 | 38x14x114 | 6,80 | 14,99 | 56x46x31 | 41,00 | 90,38 | 16 |
| 0.055.0224 | CDK G45 150-18 | 83 | 1800 | 430 - 17" | 154 | 41,3 | 38x14x114 | 6,80 | 14,99 | 56x46x31 | 42,00 | 92,59 | 16 |
| 0.055.0226 | CDK G53 150-18 | 83 | 1800 | 505 - 20" | 154 | 34,9 | 38x14x114 | 6,80 | 14,99 | 56x46x31 | 48,00 | 105,82 | 12 |



**CDK G35
CDK G45
CDK G53**

154

Accessories and brushes are included. For available accessories refer to accessories pages.



Fully assembled

Scrubbers

Complete range of single disc machines professional, sturdy, manageable, practical and simple to use. Ergonomic handle with integrated safety controls. Strong handle joint. Powerful and noiseless motor

- Adapted in order to satisfy all the cleaning requirements, marble restoration and treatment and natural stones, woods and parquet, moquette, dewaxing, hard scrubbing.



| | CDK G35G 150-10 | CDK G45G 150-13 | CDK G45G 150-18 | CDK G53G 150-18 |
|------------------------|-----------------------------|-------------------------|--------------------------|--------------------------|
| code | 0.055.0220 | 0.055.0223 | 0.055.0224 | 0.055.0226 |
| type | low speed | low speed | low speed | low speed |
| brush speed | 154 RPM | 154 RPM | 154 RPM | 154 RPM |
| scrubbing width | 330 mm | 430 mm | 430 mm | 505 mm |
| voltage | 230V / 50HZ | 230V / 50HZ | 230V / 50HZ | 230V / 50HZ |
| abs. power | 1000 W | 1300 W | 1800 W | 1800 W |
| transmission | satellite planetary gearbox | | | |
| brush contact pressure | 36,7 g/cm ² | 40,8 g/cm ² | 41,3 g/cm ² | 34,9 g/cm ² |
| noise level | 54 dB(A) | 54 dB(A) | 54 dB(A) | 54 dB(A) |
| cable lenght | 10 m | 12 m | 15 m | 15 m |
| body height | 220 mm | 280 mm | 280 mm | 280 mm |
| dimensions / weight | 42x34x112 cm / 28 Kg | 54,2x42,5x120 cm / 36Kg | 54,2x42,5x120 cm / 37 Kg | 62,5x50,5x120 cm / 41 Kg |

Accessories

| | Description | Code | Models | Stripping synthetic floor (PVC) | Stripping cork present floor (linoleum) | Wet scrubbing/basic cleaning of stones, tiles and lino (sensitive floors) | Wet scrubbing/basic cleaning of synthetic or non sensitive floors pvc | Crystallizing | Carpet shampooing | Sanding wood | Sanding cement | Spray cleaning | Spray polishing and buffing |
|---|---------------------------|------------|----------|---------------------------------|---|---|---|---------------|-------------------|--------------|----------------|----------------|-----------------------------|
| Brushes | | | | | | | | | | | | | |
|  | Carpet brush | 0.955.0013 | CDK G35 | | | | | | x | | | | |
| | Carpet brush | 0.955.0014 | CDK G45 | | | | | | x | | | | |
| | Carpet brush | 0.955.0020 | CDK G53 | | | | | | x | | | | |
|  | Scrubbing brush PP 0,6 mm | 0.955.0006 | CDK G35 | | x | x | | | | | | | |
| | Scrubbing brush PP 0,6 mm | 0.955.0007 | CDK G45 | | x | x | | | | | | | |
| | Scrubbing brush PP 0,6 mm | 0.955.0008 | CDK G53 | | x | x | | | | | | | |
|  | Tynex brush | 0.955.0003 | CDK G35 | x | | | x | | | | | | |
| | Tynex brush | 0.955.0004 | CDK G45 | x | | | x | | | | | | |
| | Tynex brush | 0.955.0005 | CDK G53 | x | | | x | | | | | | |
| Pad Holder | | | | | | | | | | | | | |
|  | EWU pad holder | 0.955.0015 | CDK G35 | x | x | x | x | | | | | x | |
| | EWU pad holder | 0.955.0016 | CDK G45 | x | x | x | x | x | | | x | x | |
| | EWU pad holder | 0.955.0021 | CDK G53 | x | x | x | x | x | | | x | x | |
|  | Abrasive Disc Holder | 0.955.0022 | CDK G45 | | | | | | | x | x | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Special Disc | | | | | | | | | | | | | |
|  | Carborandum disc | 0.955.0027 | CDK G45G | | | | | | | | x | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Pads | | | | | | | | | | | | | |
|  | Pad micro fiber 5 pcs | 6.508.0115 | CDK G35 | | | | | | x | | | | |
| | Pad micro fiber 2 pcs | 6.508.0116 | CDK G45 | | | | | | x | | | | |
| | Pad red 5 pcs | 6.508.0117 | CDK G35 | | | x | | | | | | x | |
| | Pad red 5 pcs | 6.508.0118 | CDK G45 | | | x | | | | | | x | |
| | Pad red 5 pcs | 6.508.0119 | CDK G53 | | | x | | | | | | x | |
| | Pad green 5 pcs | 6.508.0037 | CDK G35 | | x | | x | | | | | | |
| | Pad green 5 pcs | 6.508.0039 | CDK G45 | | x | | x | | | | | | |
| | Pad green 5 pcs | 6.508.0120 | CDK G53 | | x | | x | | | | | | |
| | Pad black 5 pcs | 6.508.0044 | CDK G35 | x | | | | | | | | | |
| | Pad black 5 pcs | 6.508.0046 | CDK G45 | x | | | | | | | | | |
| | Pad black 5 pcs | 6.508.0123 | CDK G53 | x | | | | | | | | | |
| | Pad silver Inox 5 pcs | 6.508.0121 | CDK G45 | | | | | x | | | | | |
| | Pad silver Inox 5 pcs | 6.508.0122 | CDK G53 | | | | | x | | | | | |
| | Emery paper GR24 disc | 0.955.0023 | CDK G45 | | | | | | | x | | | |
| | Emery paper GR60 disc | 0.955.0024 | CDK G45 | | | | | | | x | | | |
| | Vidia disc GR24 | 0.955.0026 | CDK G45 | | | | | | | | x | | |
| | Vidia disc GR36 | 0.955.0025 | CDK G45 | | | | | | | | x | | |

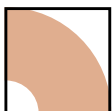
X = suitable

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 | |
|---|-------------|----------------|--------------|----------------------------------|--|---|---|---------------|-------------------|--------------|----------------|----------------|-----------------------------|--|
| 10 l chemical tank  | 0.955.0001K | CDK G35 150-10 | S | S | S | S | | S | | | | | | |
| | | CDK G45 150-13 | S | S | S | S | | S | | | | | | |
| | | CDK G45 150-18 | S | S | S | S | | S | | | | | | |
| | | CDK G53 150-18 | S | S | S | S | | S | | | | | | |
| | | | | | | | | | | | | | | |
| Detergent  | 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

Applications pads



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



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



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



PWC 1.0 1209



PWC 5.0 1211



PWC 4.0



PWC 5.0 2021

| Code | Model | Page | Operating pressure (max pressure) | Operating pressure (max pressure) | Delivery rate | Delivery rate | Absorbed power | RPM | Voltage | Max inlet water temperature | Weight with packaging | Packaging | Pieces for pallet |
|------------|--------------|------|--------------------------------------|--------------------------------------|---------------|---------------|----------------|------|----------|--------------------------------|--------------------------|------------|-------------------|
| | | | bar (max bar) | psi (max psi) | l/h | GPM | W | RPM | V - Hz | °C | Kg/lbs | cm | n° (cm x cm) |
| 8.665.0115 | PWC 1.0 1209 | 90 | 120 (150) | 1740(2175) | 510 | 2.23 | 2300 | 1450 | 230 - 50 | 40 | 30.5/67 | 60x38 h 72 | 12(120x80) |
| 8.654.1075 | PWC 5.0 1211 | 91 | 30÷120 (150) | 435÷1812 (2175) | 660 | 2.91 | 3000 | 1450 | 230 - 50 | 40 | 40/88 | 55x62 h 59 | 12 (120x100) |
| 8.671.0017 | PWC 4.0 1509 | 92 | 30÷150(160) | 435÷2175(2320) | 540 | 2.38 | 3000 | 1450 | 230 - 50 | 40 | 35/77 | 61x40 h 91 | 9(120x80) |
| 8.671.0018 | PWC 4.0 2017 | 92 | 30÷200 | 435÷2900 | 1000 | 4.49 | 9400 | 1450 | 400 - 50 | 40 | 46/101 | 61x40 h 91 | 9(120x80) |
| 8.654.0076 | PWC 5.0 2021 | 93 | 30÷200 | 435÷2900 | 1260 | 5.55 | 9400 | 1450 | 400 - 50 | 40 | 62/136 | 55x62 h 59 | 12 (120x100) |



Hot water high-pressure cleaner



PWH 2.0 1509

PWH 4.0

PWH 5.0

PWH 7.0 2021

| Code | Model | Page | operating pressure (max. pressure) | operating pressure (max. pressure) | delivery rate | delivery rate | absorbed power | rpm | voltage | outlet temp. | fuel consumption | diesel tank | amiscible tank | heat output | packaging | packaging weight |
|------------|--------------|------|---------------------------------------|---------------------------------------|---------------|---------------|----------------|------|---------|--------------|------------------|-------------|----------------|-------------|------------|------------------|
| | | | bar | psi | l/h | GPM usa | W | RPM | V | °C | l/h - gal/h | l - gal | l - gal | kW | cm | Kg - lbs |
| 8.633.0112 | PWH 2.0 1509 | 96 | 30÷120 | 435÷1740 | 330÷660 | 1.45÷2.91 | 3200 | 2800 | 230-50 | max 140° | 3,7 - 0.97 | 16 - 4.2 | - | 58 | 69x85x111 | 94 - 207 |
| 8.630.0108 | PWH 4.0 1211 | 97 | 30÷120 | 435÷1740 | 330÷660 | 1.45÷2.91 | 3000 | 1450 | 230-50 | max 140° | 3,8 - 1.0 | 16 - 4.2 | | | 69x85x111 | 104 - 229 |
| 8.630.0109 | PWH 4.0 1611 | 97 | 30÷170 | 435÷2465 | 400÷660 | 1.76÷2.91 | 4300 | 1450 | 400-50 | max 140° | 3,8 - 1.0 | 16 - 4.2 | | | 69x85x111 | 104 - 229 |
| 8.621.2987 | PWH 5.0 2015 | 98 | 30÷200 | 435÷2900 | 450÷900 | 1.98÷3.96 | 7300 | 1450 | 400-50 | max 140° | 5,6 - 1.5 | 18 - 4.8 | - | 74 | 113x71x111 | 146 - 322 |
| 8.622.0923 | PWH 7.0 2021 | 99 | 30÷200 | 435÷2900 | 630÷1260 | 2.77÷5.55 | 9700 | 1450 | 400-50 | max 140° | 6,6 - 1,75 | 22 - 5.8 | 2,4 - 0.6 | 88 | 130x78x111 | 180 - 396 |



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, CTM has conceived professional line high-pressure cleaners, in order to match, through high-tech products, perfect hygiene and clean with time/labour saving.

Being Manufacturers: from experience to knowledge

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

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

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

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

The elements that influence this value are: delivery rate (water volume processed by the pump in a unity of time) and pressure (l/h water power on a surface). The higher the delivery rate, the faster the washing phase (less rinsing time); the higher the pressure, the deeper the washing (better dirt degreasing). It is often emphasized the pressure only (also because the pump size and the consequent manufacturing cost are cheaper), but delivery rate is as important as pressure.



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

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



CRANKSHAFT

- **Linear pump:**

The movement of the (3) pistons 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.



- **Motor low rotation speed:**

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



- **Pressure accumulator:**

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



- **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.

PWC 1.0 1209

NEW



T.S. Total Stop

Equipped with:

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

Standard equipment:

- 6.001.0107 Gun S'09 M22 with quick connection.



- 6.002.0322 Lance M22.



- 5.012.0281 High pressure nozzle set type 030



- 4.618.0128 High pressure hose 8 m



- Power cable 5 m

| PWC 1.0 1209 | |
|------------------------------|-----------------------------|
| code | 8.665.0115 |
| operat. pressure/max | 120/150 bar-1740/2175 psi |
| delivery rate | 510 l/h-2.23 GPM |
| abs. power/voltage | 2300W - 230V~50Hz 1 ph |
| motorpump type/RPM | MP3/1450 RPM |
| max. water inlet temperature | 40 °C |
| dimension/weight | 59x37x87cm / 26 Kg - 57 lbs |

PWC 5.0 1211

NEW



T.S. Total Stop

Equipped with:

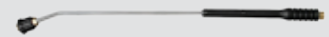
- 4 poles electrical motor (1450 RPM) with thermal protection
- Three ceramic coated pistons, brass linear pump head with built-in by-pass valve.
- Total Stop system.
- Suction and delivery S/S valves.
- Integrated detergent suction with external suction probe.
- Pressure regulator.
- Glycerine pressure gauge.
- Hose-reel (**optional**).
- Accessory holder.
- Power cable holder.
- Steel frame.
- Steel cover.

Standard equipment:

- 3.700.0036 Gun M22 - 3/8"



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045



- 4.618.0049 High pressure hose 8 m



- Power cable 5 m

Optional:

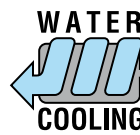
- cod. 6.608.0068 High-pressure hose-reel (hose not included)



PWC 5.0 1211

| | |
|------------------------------|-----------------------------|
| code | 8.654.1075 |
| operat. pressure/max | 120/150 bar-1740/2175 psi |
| delivery rate | 660 l/h-2.91 GPM |
| abs. power/voltage | 3000W - 230V~50Hz 1 ph |
| motor/pump type/RPM | MP4/1450 RPM |
| max. water inlet temperature | 40 °C |
| dimension/weight | 50x90x83cm / 37 kg - 81 lbs |

PWC 4.0



Model: 2017



Model: 1509



Model: 2017

Standard equipment:

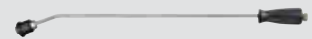
- 3.700.0036 Gun M22 - 3/8 (mod 1509)



- 3.700.0030 Gun M22 - 3/8 with rotating coupling (mod. 2017).



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0047 Nozzle type 030 (mod 1509)
- 3.103.0052 Nozzle type 045 (mod 2017)



- 4.618.0049 High pressure hose 8 m (mod. 1509).

- 4.618.0143 High pressure hose 10 m (mod. 2017).



- Power cable 5 m

Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling (model 2015).
- Three ceramic coated pistons (1 ph), full ceramic pistons (3 ph), brass linear pump head with built-in by-pass valve.
- Suction and delivery S/S valves.
- Low voltage and delayed Total Stop (model 2015).
- Detergent built-in tank for indirect suction.
- Pressure regulator.
- Glycerine pressure gauge.
- Hose-reel
- Accessory holder.
- Power cable holder.
- Ergonomic handle.

| | PWC 4.0 1509 | PWC 4.0 2017 |
|------------------------------|-------------------------------|-------------------------------|
| code | 8.671.0017 | 8.671.0018 |
| operat. pressure/max | 150/160 bar-2175/2320 psi | 200 bar-2900 psi |
| delivery rate | 540 l/h-2.37 GPM | 1000 l/h-4.4 GPM |
| abs. power/voltage | 3000W - 230V~50Hz 1 ph | 9400W - 400V~50Hz 3 ph |
| motorpump type/RPM | MP4/1450 RPM | MPW4/1450 RPM |
| max. water inlet temperature | 40 °C | 40 °C |
| dimension/weight | 76x41x75cm / 33 kg - 72,6 lbs | 76x40x75cm / 44 kg - 96,8 lbs |

PWC 5.0 2021



T.S.
Total Stop 24V

WATER
COOLING

NEW

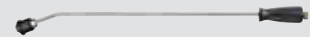


Standard equipment:

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



- 3.701.0027 Lance M22 high/low pressure



- 3.103.0055 Nozzle type 070



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

Equipped with:

- 4 poles electrical motor (1450 RPM) with thermal protection and water cooling.
- Three ceramic pistons, brass linear pump head with built-in by-pass valve.
- Integrated elastic joint, for best pump coupling.
- Low voltage and delayed Total Stop.
- Suction and delivery S/S valves.
- Integrated detergent suction with external suction probe.
- Pressure regulator.
- Glycerine pressure gauge.
- Hose-reel (**optional**).
- Steel frame.
- Stainless steel cover.



Integrated elastic joint, for best pump coupling

Optional:

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



| PWC 5.0 2021 | |
|------------------------------|------------------------------|
| code | 8.654.0076 |
| operat. pressure | 200 bar-2900 psi |
| delivery rate | 1260 l/h-5.55 GPM |
| abs. power/voltage | 9400W - 400V-50Hz 3ph |
| pump type/RPM | MPW5/1450 RPM |
| max. water inlet temperature | 40 °C |
| dimension/weight | 50x90x83cm / 58 Kg - 128 lbs |

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

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

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



Why a hot water high-pressure cleaner?

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

The boiler

It is a diesel fuel heater that raises water temperature coming out of the pump; the difference between inlet and outlet water temperature is technically indicated like Delta T. Boiler dimensions, in other words coil and diesel fuel consumption, determine the thermal power of the burner.

Under the same conditions, increasing the delivery rate (quantity of water to be heated) the Delta T decreases proportionally. It is easy to understand why high pressure cleaners with higher delivery rates have more powerful burners: to grant the best operating temperature in each working condition. All our boilers have 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 (diesel fuel) 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.



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.



- **Total Stop:**

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



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

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



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

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



- **Motor low rotation speed:**

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



- **Pressure accumulator:**

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



- **Eco Energy:**

Eco Energy System: in this setting, the running parameters of the machine grant the best compromise among performance, result of the cleaning task and ecological footprint. The relation between water temperature and boiler fuel consumption is optimized.

PWH 2.0 1509

NEW

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

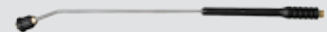


Standard equipment:

- 3.700.0036 Gun M22 - 3/8" with rotating coupling.



- 3.701.0015 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045



- 4.618.0049 High pressure hose 8 m



- Power cable 5 m

Optional:

- 6.608.0073 Hose reel with brake (hose not included)

Equipped with:

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

| PWH 2.0 1509 | |
|-------------------------------|--------------------------------|
| code | 8.633.0112 |
| operat. pressure/max | 150/160 bar-2175/2320 psi |
| delivery rate | 540 l/h-2.37 GPM |
| abs. power/voltage | 3200W - 230V~50Hz 1ph |
| motorpump type/RPM | MPBX2/2800 RPM |
| max. water inlet/outlet temp. | 40/140 °C |
| dimension/weight | 75x58x103 cm / 74 Kg - 163 lbs |

PWH 4.0

NEW

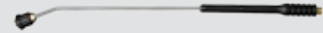


Standard equipment:

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



- 3.701.0015 Lance M22 high/low pressure



- 3.103.0050 Nozzle type 045 (mod. 1211 LP 1611 LP)



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



- Power cable 5 m

Optional:

- 6.608.0073 Hose reel with brake (hose not included)

Equipped with:

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

| | PWH 4.0 1211 | PWH 4.0 1611 |
|-------------------------------|-------------------------------|-------------------------------|
| code | 8.630.0108 | 8.630.0109 |
| operat. pressure/max | 120/150 bar-1740/2175 psi | 170 bar-2465 psi |
| delivery rate | 660 l/h-2.91 GPM | 660 l/h-2.91 GPM |
| abs. power/voltage | 3000W - 230V~50Hz 1ph | 4300W - 400V~50Hz 3 ph |
| motor/pump type/RPM | MP4/1450 RPM | MP4/1450 RPM |
| max. water inlet/outlet temp. | 40/140 °C | 40/140 °C |
| dimension/weight | 94x65x90cm / 112 Kg - 246 lbs | 94x65x90cm / 128 Kg - 282 lbs |

PWH 5.0 2015



NEW



CRANKSHAFT

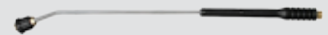


Standard equipment:

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



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



- 3.103.0050 Nozzle type 045



- 4.618.0143 H. P. hose 10 m



- Power cable 5 m



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

Equipped with:

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

Optional:

- Hose-reel with brake (hose not included) cod.6.608.0004
- On request models with header tank and/or antiscaling device.
- Antiscaling LC-PRECAL (pcs. 4 x 5 lt.) cod. 3.697.0044

PWH 5.0 2015

| | |
|-------------------------|-------------------------------|
| code | 8.621.2987 |
| operat. pressure/max | 200 bar-2900 psi |
| delivery rate | 900 l/h-3.96 GPM |
| abs. power/voltage | 7300W - 400V~50Hz 3 ph |
| motor/pump type/RPM | MPW4/1450 RPM |
| max. temp. inlet/outlet | 40/140 °C |
| dimension/weight | 94x65x90cm / 128 Kg - 282 lbs |

PWH 7.0 2021



NEW



T.S
Total Stop **24V**

Standard equipment:

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



- 3.708.0001 Lance with quick connection.



- 3.103.0055 Nozzle type 070 (mod. 2021 LP)



- 4.618.0143 High pressure hose 10 m



- Power cable 5 m

Optional:

- Hose-reel with brake (hose not included) cod.6.608.0005
- On request models with header tank and/or antiscaling device.
- Antiscaling LC-PRECAL (pcs. 4 x 5 lt.) cod. 3.697.0044

Equipped with:

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

| PWH 7.0 2021 | |
|-------------------------|--------------------------------|
| code | 8.622.0923 |
| operat. pressure/max | 200 bar-2900 psi |
| delivery rate | 1260 l/h-5.55 GPM |
| abs. power/voltage | 9700W - 400V~50Hz 3 ph |
| motorpump type/RPM | MPW5/1450 RPM |
| max. temp. inlet/outlet | 40/140 °C |
| dimension/weight | 125x69x87cm / 145 Kg - 319 lbs |

Lance with rotary nozzle



Lance with rotary nozzle max 280 bar:

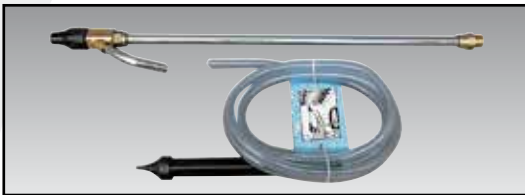
max temperature 90° C.
rotary nozzle with brass body
lance for gun M 22

6.602.0040 rotary nozzle - 045

6.602.0041 rotary nozzle - 055

6.602.0042 rotary nozzle - 070

Widia sand-blasting lance



Sand-blasting lance max 280 bar:

max temperature 90° C.
Sand-blasting lance with
Widia nozzle for gun M 22

6.602.0027 sand-blasting lance - 040

6.602.0028 sand-blasting lance - 050

6.602.0029 sand-blasting lance - 075

Sand-blasting lance kit



Sand-blasting head kit max 280 bar:

max temperature 90° C

(For lance 1/4" M)

6.608.0049 sand-blasting lance - 040

6.608.0050 sand-blasting lance - 050

6.608.0051 sand-blasting lance - 075

Rotary head nozzle



Rotary nozzle max 280 bar:

G 1/4" F with brass body

Extension set for rotary nozzle:

1/4" M - 1/4" M codes 3.749.0004 +
4.006.0099 Spare coupling for gun M 22

3.749.0292 rotary nozzle - 030

6.608.0040 rotary nozzle - 045

6.608.0069 rotary nozzle - 055

3.749.0467 rotary nozzle - 070

Rotary head nozzle



Rotary nozzle max 500 bar:

G 1/4" F with S/S body and seat/nozzle in
highly shock-resistant tungsten carbide

Extension set for rotary nozzle:

1/4" M - 1/4" M codes 3.749.0004 +
4.006.0099 Spare coupling for gun M 22

3.749.0200 rotary nozzle - 040

3.749.0201 rotary nozzle - 045

3.749.0202 rotary nozzle - 050

3.749.0203 rotary nozzle - 055

3.749.0204 rotary nozzle - 060

3.749.0205 rotary nozzle - 065

3.749.0206 rotary nozzle - 070



Foam injector lance max 250 bar:
Indirect foam lance max temperature 90° C.
For gun M 22

6.602.0003 indirect foam lance

Indirect foam lance



Foam lance max 180 bar:
max temperature 60° C
Indirect foam lance with regulator
and plastic bottle.

6.602.0051 For gun with quick ball coupling

6.602.0053 For gun with M 22 coupling

Foam lance



Double lance with regulator knob max 250 bar:
for high/ low pressure regulator, max temperature 150° C,
for gun M 22 (nozzles 1/8" not included)

3.701.0025 Double lance with regulator knob mm 500

Double lances



Fixed brush



Rotating brush

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

6.602.0035 Fixed brush with extension pipe mm 700

6.602.0036 Rotating brush with extension pipe mm 700

Fixed and rotate brushes















6 pieces of 5 kg each:
code 0.011.0001






Calibrated sand for sand-blasting lances

Technology




| MODEL | DESCRIPTION | PROPERTIES | USE: | |
|---|-------------------------------------|--|---|---|
| <p>LCN-800F code 3.697.0023</p>  <p>Ph 7.8 - 8.2 1,000 g/ml 5000 ml x 4 pz.</p> | FRAGRANCE-FREE SANITISING DETERGENT | Destroys unpleasant odours, fights the proliferation of bacteria, harmful micro-organisms, fungi and moulds. Contains quaternary ammonium salts. | On all types of hard surface, dilute from 1 to 3%. In the case of tenacious contaminations and aggressive unpleasant odours, dilute up to 6%. | <p>T1 </p> <p>T2 </p> <p>T3 </p> <p>T5 </p> <p>T7 </p> |


| MODEL | DESCRIPTION | PROPERTIES | USE: | |
|--|--------------------------------|--|---|---|
| <p>LCN-800 code 3.697.0024</p>  <p>Ph 7.8 - 8.2 1,000 g/ml 5000 ml x 4 pz.</p> | FRAGRANCE SANITISING DETERGENT | Destroys unpleasant odours, fights the proliferation of bacteria, harmful micro-organisms, fungi and moulds. Contains quaternary ammonium salts. Leaves a fresh and long-lasting fragrance in the environment. | On all types of hard surface, dilute from 1 to 3%. In the case of tenacious contaminations and aggressive unpleasant odours, dilute up to 6%. | <p>T1 </p> <p>T2 </p> <p>T3 </p> <p>T5 </p> <p>T7 </p> |


| MODEL | DESCRIPTION | PROPERTIES | USE: | |
|--|---------------------------------|---|---|---|
| <p>LCN-680AL code 3.697.0025</p>  <p>Ph 6,6 - 7,0 1,000 g/ml 5000 ml x 4 pz.</p> | ALCOHOLIC MAINTENANCE DETERGENT | Quick-drying universal neutral detergent. Anti-dust effect for 4-5 days. Leaves a pleasant fragrance in the environment. Does not leave residues. | On all types of washable shiny or hard surface such as glass, stone or ceramic, dilute with water from 0.5% to 1 %. | <p>T1 </p> <p>T3 </p> <p>T5 </p> <p>T7 </p> |

Technology

- T1** manual cleaning
 T2 sprayer
 T3 carpet cleaner
 T4 high-pressure cleaner
 T5 steam cleaner
 T6 single disc machine
 T7 floor scrubber-drier






| MODEL | DESCRIPTION | PROPERTIES | USE: | |
|---|-------------------------------------|--|---|-------------------------------------|
| LCN-650 code 3.697.0026  Ph 6,3 - 6,7 1,000 g/ml 5000 ml x 4 pz. | NON ALCOHOLIC MAINTENANCE DETERGENT | Universal neutral detergent, does not corrode polymers, natural or synthetic waxes. Leaves a pleasant fragrance in the environment. Does not leave residues. | On all types of washable hard surfaces, even if protected by wax and/or sealants, dilute in water to 0.5%-1%. | T1 T3 T7 |







| MODEL | DESCRIPTION | PROPERTIES | USE: | |
|---|------------------------------------|--|--|-------------------------------------|
| LCN-640WM code 3.697.0027  Ph 5,9 - 6,9 1,000 g/ml 5000 ml x 4 pz. | NON STRATIFYING WAX WASH DETERGENT | Cleans and shines surfaces. Regenerates protective and wax treatments. Non filmogenous and leaves a pleasant fragrance in the environment. | On all types of washable hard surfaces, including floors protected by wax and/or sealants, dilute in water to 0.5%-1%. | T1 T6 T7 |




| MODEL | DESCRIPTION | PROPERTIES | USE: | |
|---|---------------------------------------|---|--|-------------------------------------|
| LCB-900WR code 3.697.0030  Ph 8,8 - 9,2 1,000 g/ml 5000 ml x 4 pz. | FRAGRANCE-FREE WAX REMOVING DETERGENT | Removes any type of wax or polymer (even if old or stratified). | According to the degree of dirt and the thickness of the film, dilute in water from 1% to 10%. In extreme situations, dilute in water up to 20%. | T1 T6 T7 |

Technology



| MODEL | DESCRIPTION | PROPERTIES | USE: | |
|--|------------------------------------|---|---|--|
| LCB-740F code 3.697.0031  Ph (sol. 1%) 6.9 - 7.9 1,000 g/ml 5000 ml x 4 pz. | ALKALINE MULTIPURPOSE DETERGENT | Dissolves and detaches organic and inorganic dirt. | On all types of hard washable surfaces, ceramic or enamelled surfaces, windows and doors, equipment and industrial machine tools. Dilute in water from 1% to 2%. | T1  T2  T4  T7  |

| MODEL | DESCRIPTION | PROPERTIES | USE: | |
|--|--|---|---|--|
| LCN-600SVF code 3.697.0033  Ph 5,8 - 6,2 0,950 g/ml 5000 ml x 4 pz. | SOLVENT DETERGENT OF VEGETABLE ORIGIN | Eliminates tar, rubber, glue and adhesive residues. Removes even stratified (acrylic or polymer) wax films. Disintegra- tes persistent dirt of animal or mineral origin. | According to the degree of dirt and thickness of the film, dilute in water from 0.5% to 2%. | T1  T2  T5  T6  T7  |

| MODEL | DESCRIPTION | PROPERTIES | USE: | |
|---|--------------------------------------|--|--------------------------------|--|
| LCN-700 code 3.697.0035  Ph 6.8 - 7.2 1,010 g/ml 5000 ml x 4 pz. | CARPET AND TEXTILE WASH DETERGENT | Removes dirt, regenerates and protects fibres. Does not leave residues and releases a pleasant fragrance. | Dilute in water from 2% to 5%. | T3  T5  |

GENERAL TERMS OF SALE

Goods travel at buyer's risk. Images and technical specifications of products and accessories are not binding and can be modified without notice.



Management system certified ISO 9001
for high pressure cleaners designing
and manufacturing.



Watch the video on youtube:
www.youtube.com/ctmcleaning



CTM - J.F.Kennedy, 12 - 46020 Pegognaga (MN) Italy - Tel. +39 0376 55431 - Fax +39 0376 558927
E-mail: info@lavorpro.com - WebSite: www.ctmcleaning.com