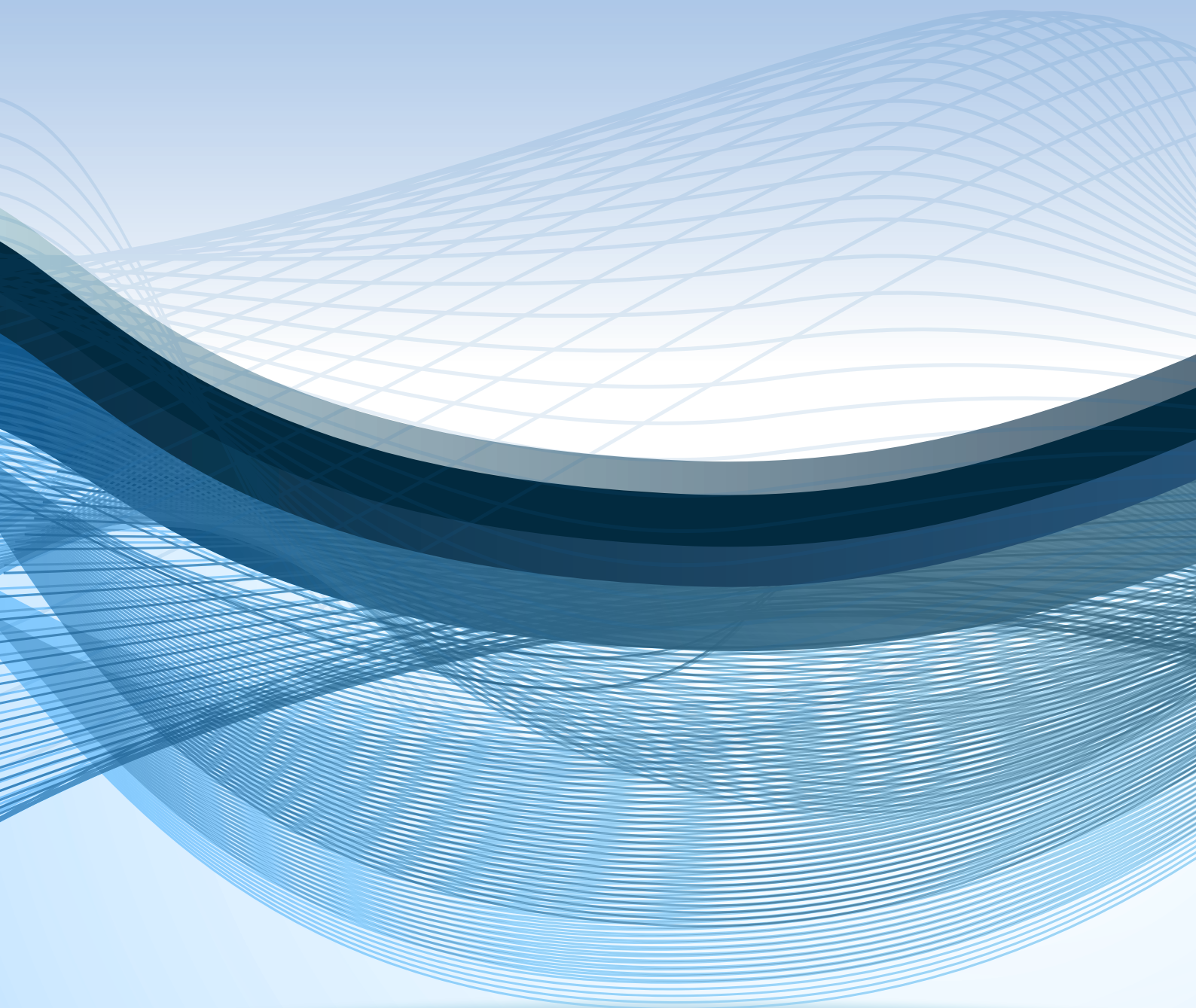






Vema srl is a company specialized in the design, construction and installation of centralized medium-high pressure washing systems for the agro-food and industrial sector.

The high specialization achieved over many years of experience in the particular uses of pressure washing, allows Vema to deal with any type of request, from the simplest to the centralized modular system for food industry and in any case for all companies that are looking for technologies able to solve sanitation problems in a unique solution, to overcome the limitations of common pressure washers.

Vema therefore means specialized qualification to offer maximum economy, efficiency and productivity.

Its staff operates according to high quality standards following the philosophy of continuous improvement, in the awareness of the need to offer the customer a close collaboration as a partner and not just a supplier.

Vema Impianti understands Quality as the daily application of "continuous improvement" in each of the activities of the company system

The customer is seen as a point of reference and his satisfaction becomes the main goal towards which our company channels all its energies.

Quality has always been the distinctive element in the design and manufacture of our products, an investment to be more competitive and to have more satisfied customers, more convinced of the value of choosing Vema Impianti as a supplier, aware that it operates in compliance with the Standard ISO 9001.

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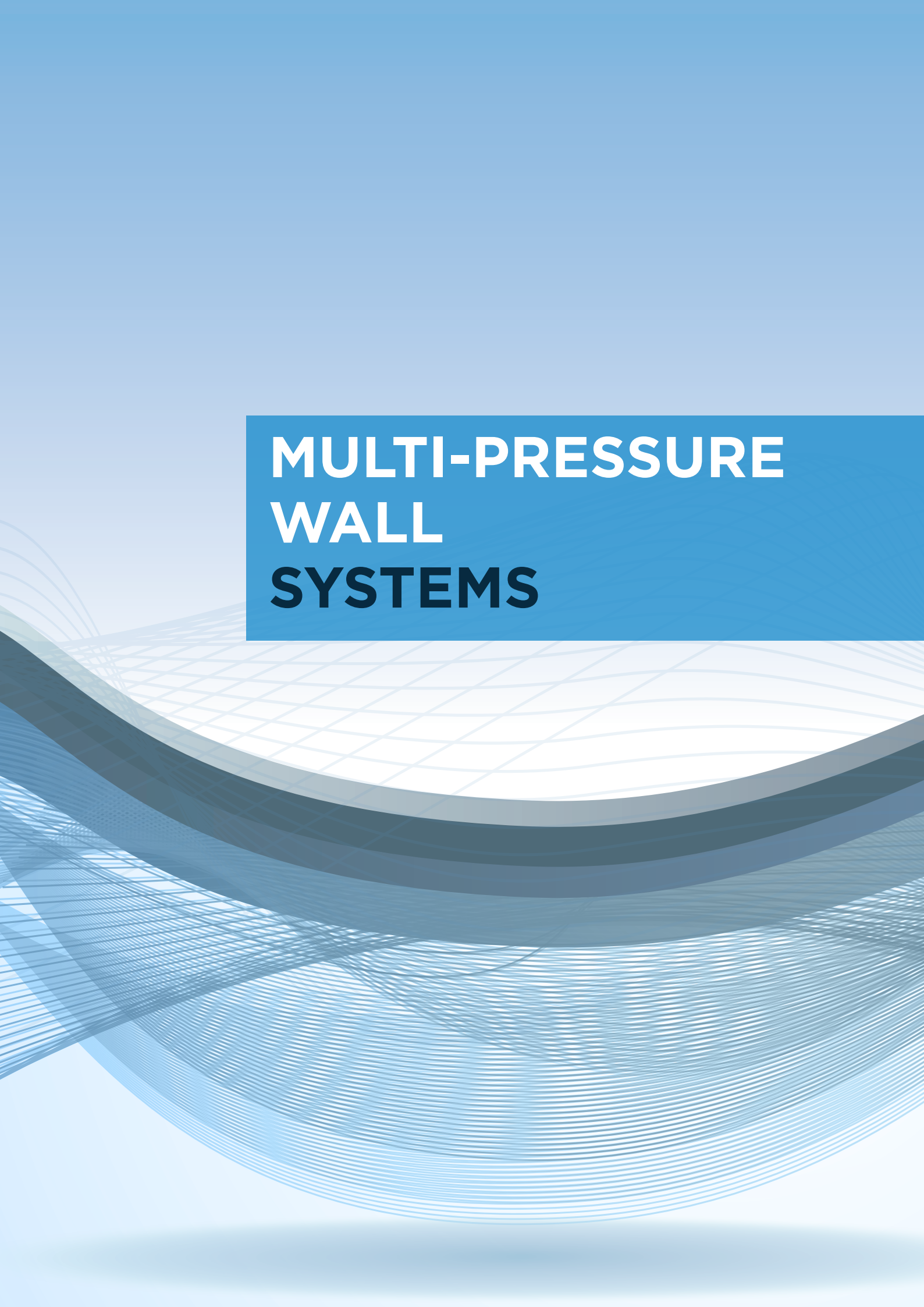
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MULTI-PRESSURE WALL SYSTEMS

Centralized washing system Single pump from 20 to 200 Bar

1.1



The FMT1 single washing system is a one pump unit with adjustable **pressure from 20 to 200 bars** and a **flow rate of 15, 21, 30, 42 litres/min.** It is designed to be used directly in factories production departments.

FMT1 is wall mounted on special stainless steel brackets incorporating vibration dampers. Optional accessories such as hose reel, foam dispensing station and lance holder can all be mounted on the same support.

FMT1

**ADJUSTABLE
PRESSURE
FROM 20 TO
200 BAR**

The **low maintenance structure** is fitted with a hydraulic control device with automatic start/delayed stop function controlled simply by opening and closing the lance. This reduces wear and saves energy when the lance is not in use.

The pump is designed to be used with hot water even at temperatures of more than 75°C and shuts down in the absence of water. Maintenance is extremely easy, with simple quick access to the various assemblies

Centralized washing system Single pump from 20 to 200 Bar

1.1

Stainless steel wall holder
for extraction lances Ø 14

(Sec 9.17)

(Optional) - Cod. 20.0560.06

Foam System 1 - (Sec. 7.7)

Working pressure >100 Bar

(Optional) - Cod. 10.3639.00

Foam Lance (Sec. 9.8)

(Optional) Cod. 10.2218.00



Anti-vibration

Stainless steel accessories
holder

(Optional) Cod. 20.3636.06

Manual hose reel
(Sec. 9.2)

(Optional) Cod. 10.0447.00

Available configurations

CODE	MAX.FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	VOLTAGE (Volt)	RPM	WEIGHT (Kg)	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
10.0414.00	15	20 - 200	5,5	400	1450	60	700x400x450	75 °C	1
10.0391.00	21	20 - 150	5,5	400	1450	60	700x400x450	75 °C	1
10.1779.00	30	20 - 100	5,5	400	1450	70	700x400x450	75 °C	2
10.2280.00	42	20 - 70	5,5	400	1450	80	700x400x450	75 °C	2-3

Technical features

- S/s frame with cilindrical foot
- Water lack controls
- IP65 control panel
- Pump with ceramic piston an s/s valves
- Pressure controls
- Pressure indicator
- Pressure adjustement
- Over temperature safety control 80° C
- Total block if unused for an hour (with the possibility to exclude the block)
- Electronic card for hydraulic control of h.p. water leak
- Total stop
- Low Voltage controls (24 volt)

Supplied accessories

1.1



S/s Washing lance cm 70 without nozzle complete of pin Ø14 **Sec. 9.4 - Cod. 10.2219.00**



S/s nozzle 1/8"
Sec. 9.7



Gun with coupling Ø 14
Sec. 9.9 - Cod. 10.1364.00



Hose H.P. R/2 15mt. Non-staining
3/8" female zinc-plated fittings
Sec. 9.10 - Cod. 10.3534.00



Hose R/2 HP D/90 700 mm
Cod. 10.3702.00



Hose R/1 in-let D/90 700 mm
Cod. 10.3707.00



Pair of S/s bracket for wall fixing
+ Antivibrating
Cod. 10.0445.00 + Cod. 40.0442.00

Optional accessories



Kit S/s tank 30 Lt complete
of water level sensor
Cod. 10.3708.00



S/S Stainless Steel
Manual Hose Reel
sec. 9.2
cod. 10.1495.00 -R/X
cod. 10.3488.00 - R/Z



S/S Automatic Hose Reel
High Pressure 20 mt
sec. 9.1
cod. 10.5007.00 -R/Z
cod. 10.5019.00 -R/X



Wide range of fixed and
mobile foam dosing stations
Sec. 7.6 - 7.7 - 7.8

R/X: Stainless steel press fitting pipe
R/Z: Galvanized press fitting pipe

Foam Lance Ø 1
sec. 9.8 - Cod. 10.2218.00



Wall mounted High Pressure Washing machine 130 Bar Max

1.2



The **Hydra 130/12** truly represents a next-level solution among the high pressured ones. Unique in its sector for **compactness, low noise levels, reliability and standard accessories**, it allows foaming, rinsing and disinfection processes to be optimised. The system already incorporates all components, from the electrical panel to the **100% stainless steel dispensing system** for foaming and disinfection, creating a highly reliable integrated combination to satisfy all sanitising needs. The frame is in stainless steel and all parts of the machine can be easily inspected for servicing and control. The pump absorbs just **3 kW**, produces a pressure of about **130 bars** with a **flow rate of 12 l/min** and is suitable for use with hot water up to **75°C**. The controls are low voltage (**24 V**) and a delayed total stop function shuts down the system when the lance is closed. The **Hydra 130/12** is also one of the most rational washing machines to use as the operator just need to turn the knob on the front panel and insert the lance.

Available configurations

CODE	MAX.FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	VOLTAGE (Volt)	RPM	WEIGHT (Kg)	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
10.3729.00	12	20 - 130	3	400	1450	50	610x350x350	75 °C	1

Technical features

- S/s frame
- S/s dosing system Foam System 1 for foam and disinfection.
- IP65 control panel
- Pump with 3 ceramic pistons complete of special seals kit for high temperature
- Controls by flow sensor
- Pressure adjustment
- Pressure indicator
- Over temperature 75 ° C safety controls
- Total stop

Supplied accessories

1.2



S/s Washing lance cm 70 without nozzle complete of pin Ø14 **Sec. 9.4 - Cod. 10.2219.00**



S/s nozzle 1/8"
Sec. 9.7



Gun with coupling Ø 14
Sec. 9.9 - Cod. 10.1364.00



Hose H.P. R/2 15mt. Non-staining
3/8" female zinc-plated fittings
Sec. 9.10 - Cod. 10.3534.00



S/s wall holder for hose
Sec 9.17 - Cod. 10.1335.00



S/s mounting bracket
Cod. 20.2073.06 + Cod. 20.0707.06
(Only wall model)



Foam Lance Ø 1
Sec. 9.8 - Cod. 10.2218.00

Optional accessories



S/S Stainless Steel
Manual Hose Reel 20 mt
Sec. 9.2 - cod. 10.1495.00 -R/X
cod. 10.3488.00 -R/Z



S/S Automatic Hose Reel
High Pressure 20 mt
Sec. 9.1
cod. 10.5007.00 -R/Z
cod. 10.5019.00 -R/X

R/X: Stainless steel press fitting pipe
R/Z: Galvanized press fitting pipe

Washing system – Hot Water Single Pump to 130 Bar 2-4 Lt/min

1.3



Calidus 130/4 is a **high pressure** washing unit that produces hot water, specifically created by **VEMA** to meet the needs of food stores and small/medium shops. The frame, the equipped pump and all control components used are integrally formed in stainless steel, with the aim to meet the expectations of the final user and ensure reliability in the long run without comparisons, everything combined with low noise.

The limited **water consumption of MAX 4 lt/min**, the **maximum temperature of 80 ° C**, which is exclusively generated by an **electric resistance of 9 kw**, and the total absence of aerosols are combined to a great ease of use that allows to easily remove any residue or contamination. The limited supply of water, also allows the use even in environments where discharges points are not installed.

Water can be collected with simple dry/wet vacuum cleaners. **The system includes high-pressure 15 m hose, gun with "Total Stop" function, dedicated lance complete with nozzle and compressed air injector for foaming operations.**



Compressed air foaming
injector
Cod. 10.3564.00

CALIDUS

HIGH PRESSURE HOT WASHING

Washing system – Hot Water Single Pump to 130 Bar 2-4 Lt/min

1.3

Available configurations

CODE	MAX.FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	VOLTAGE (Volt)	RPM	WEIGHT (Kg)	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMPERATURE
10.5737.00	4	20 - 130	10	400	1450	40	610x350x350	85 °C

Technical features

- Low Voltage Controls (24 volt)
- Hot/Cold Selector
- Heating water continuously at a constant temperature
- Digital Thermostat
- Over temperature 80 °C
- Pressure adjustment
- Pressure Indicator
- Total Stop
- Pressure Switch Controls
- Safety Valve
- Pump with ceramic pistons and s/s Valve
- IP65 Control Panel
- Water Lack Controls
- S/S Frame



S/s Washing lance cm 70 without nozzle complete of pin Ø14
Sec. 9.4 - Cod. 10.2219.00



S/s nozzle 1/8"
Sec. 9.7



Compressed air foaming
injector
Cod. 10.3564.00



Gun with coupling Ø 14
Sec. 9.9 - Cod. 10.1364.00



Hose H.P. R/2 15mt. Non-staining
3/8" female zinc-plated fittings
Sec. 9.10 - Cod. 10.3534.00



MULTI-PRESSURE CENTRALIZED SYSTEMS

Centralized washing system Single high flow rate pump

2.1



Skid version



Covered version

Without any doubt **Modula One** is the best currently available on the multipressure washing market.

The combination of **high efficiency** electric motor and inverter, combined with components specifically designed by **VEMA**, has resulted in a variable speed unit able to express the potential of the combination of electronics and mechanics at his best to provide a reliable response to an ever more selective and demanding market.

Modula One is therefore **VEMA's** solution to the problem of energy waste, enabling the electrical power consumed to be modulated according to the mechanical demand of the motor shaft. Particularly in the presence of discontinuous loads, this improves energy efficiency, obtaining:

- Energy savings as high as 30%, 40% depending on load;
- More rational use of the motor, increasing its working life;
- Less heat dissipated by the electric motor;
- Less vibration on start up and operation of the pump assembly, thanks to modulation of power in relation to the flow rates required;
- Electrical circuit optimised in both the transient and full load current drawn;
- The inverter ensures a return on investment generally in less than 24 months;
- The possibility of reducing the operating speed in fluidodynamic machines when the nominal speed (50 Hz) is not required also reduces mechanical wear and considerably lowers energy consumption as the relationship between absorbed power and speed is cubic and a slight reduction in Hz therefore means a considerable reduction in kW consumed. For different flow rate and pressure requirements contact our technical office who will always be happy to discuss and analyse the most feasible solution for your specific needs.

Modula One is a standard product in two versions:

- Mounted on a skid made from 100% AISI/304 stainless steel complete with IP55 watertight electrical panel and adjustable feet or with s/s protection cover (**Optional**)

Available in 4.0
Configuration



Centralized washing system Single high flow rate pump

2.1

CODE	MAX. FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	RPM	VERSION	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
10.1091.00	45	120	11	1000	SKID	1320x770x1650	75°C	3
10.1259.00	45	160	15	1000	SKID	1320x770x1650	75°C	3
10.5026.00	60	120	15	1000	SKID	1320x770x1650	75°C	4
10.5027.00	60	150	18,5	1000	SKID	1320x770x1650	75°C	4
10.6397.00	106	110	30	1000	SKID	1320x770x1650	75°C	7
10.6398.00	106	200	40	1000	SKID	1320x770x1650	75°C	7
10.6399.00	170	110	37	900	SKID	1320x770x1650	40°C	11

Technical features

- Low voltage controls (24 volt).
- Pressure adjustment
- Water flow rate adjustment
- Digital control and indication of the temperature.
- PID for the control of the pressure
- Transducer of pressure 4/20 mA.
- Electronic flow sensor
- Contemporary use of more lance at the same time
- Total block of the pump if not used
- Possibility to have different pressure and flow rate in different washing zones
- Water lack control
- Block of the plant in case of over temperature
- IP65 electric control panel
- P65 S/s electric control panel (Optional)
- Integral ceramic 3 piston pump with /s valves
- Available in skid
- Available in 4.0 configuration

Optional accessories



Protection cover in abs
Cod. 10.2505.00



300 Lt plastic feeding tank complete with controls and pump - S/s frame
Sec. 9.16- Cod. 10.3962.00

Centralized washing system Single high flow rate pump

2.1

Optional accessories



S/s washing lance cm 90 without nozzle complete of pin ø 14
Sec. 9.4 - Cod. 10.2219.00



Foam lance
Sec. 9.8 - Cod. 10.2218.00



Foam lance
Sec. 9.8 - Cod. 10.3540.00



S/s nozzle 1/8"
Cod. 10.2505.00



Gun with coupling ø 14
Sec. 9.9 - Cod. 10.1364.00



H.p. hose R2 " L= 15 or 20 mt.
Sec. 9.10 - Cod. 10.3534.00 - R/Z
Cod. 10.3474.00 - R/Z



S/S Stainless Steel
Manual Hose Reel 20 mt
Sec. 9.2 - Cod. 10.1495.00 - R/X
Cod. 10.3488 - R/Z



S/S Automatic Hose Reel
High Pressure 20 mt
Sec. 9.1 - Cod. 10.5007.00 - R/Z
Cod. 10.5019.00 - R/X



Quick coupling and fittings
Scz. 9.11



Wide range of foam dispenser stations - Stationary and mobile
Sec. 7.7 - 7.8

Multi-pressure
centralized systems

Centralized washing system Single high flow rate pump

2.1

Optional accessories



Stainless steel wall holder for lances
with Ø 14 pin
Sec. 9.17 Cod. 20.0560.06



Ball valve Inox AISI 316 A.P. ½ "
FF with Lever
Sec. 9.15 Cod. 40.3018.00

2.2



Versione base



Versione carenata

Centralized washing system Multi-Pressure from 20 to 150 Bar - 2 Pump

Modula Plus 2 is based on the same philosophy as the **FMT6/S** concept, but with **high flow** rate pump systems and **inverter**. The combination of high efficiency electric motor and inverter, together with a control system acting through a dedicated electronic control unit has resulted in an innovative, reliable variable speed unit, adaptable to all industrial washing needs.

As with all inverter systems, **Modula Plus 2** is in line with the new **"Green industry"** trends to **reduce energy waste**, helping to save on electrical consumption and above all respecting the surrounding environment.

The use of inverters improves energy efficiency, obtaining:

- Energy savings of as much as 30-40% depending on load;
- More rational use of the motor and pump, extending their working life;
- Less heat dissipated by the electric motor;
- Less vibration on start up and operation of the pump assembly, thanks to modulation of power in relation to the flow rates required;
- Electrical circuit optimised in both the transient and full-load current drawn;
- Return on investment generally in less than 24 months;
- Less maintenance.

Available in 4.0
Configuration



Elements common to all MODULA Plus 2 plants



PLC Control panel



Special piston pump



Electrical panel

Centralized washing system Multi-Pressure from 20 to 150 Bar - 2 Pump

2.2

CODE	MAX. FLOW RATE (lt/min)	N° OF PUMPS	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	RPM	WEIGHT	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
10.0730.00	90	2	20 - 120	22	1000	800	1320x1240x743	75°C	6 - 8
10.3715.00	90	2	20 - 150	30	1000	900	1320x1240x743	75°C	8 - 10
10.1110.00	120	2	20 - 120	30	1000	1050	1320x1240x743	75°C	10 - 14
10.1242.00	120	2	20 - 150	37	1000	1050	1320x1240x743	75°C	12 - 16

Technical features

- Low voltage controls (24 volt)
- Working pressure adjustment
- Water flow rate adjustment
- Control module complete of Electronic board
- PID system for the pump pressure control
- Transducer of pressure control 4/20 mA
- Temperature sensor
- Contemporary use of more lances at the same time
- Switch off of the pumps in excess till the total switch off of the pumps if not used
- Possibility to have different pressure and flow in different washing zones.
- Water lack control
- Over temperature safety control
- Block of the plant in case of break of h.p. hose
- Additional control on the entire system
- IP65 control power pane
- Piston pump (75 °C)
- Steel Structure –Epoxy paint
- Available in 4.0 configuration

Centralized washing system Multi-Pressure from 20 to 150 Bar - 2 Pump

Optional accessories



S/s washing lance cm 90 without nozzle complete of pin $\varnothing$ 14 **Sec. 9.4 - Cod. 10.2219.00**



S/s nozzle 1/8"
Sec. 9.7



Gun with coupling $\varnothing$ 14
Sec. 9.9 - Cod. 10.1364.00



H.p. hose R2 " L= 15 or 20 mt..
Sec. 9.10 - Cod. 10.3534.00 -RZ
Cod. 10.3474.00 - RZ



S/S Stainless Steel
Manual Hose Reel 20 mt
Sec. 9.2 - Cod. 10.1495.00 -R/X
cod. 10.3488.00 -R/Z



S/S Automatic Hose Reel
High Pressure 20 mt
Sec. 9.1 - Cod. 10.5007.00 -R/Z
cod. 10.5019.00 -R/X



Quick coupling and fittings
Sec. 9.11



Wide range of foam dispenser stations - Stationary and mobile
Sec. 7.7 - 7.8



300 Lt plastic feeding tank complete
with controls and pump - S/s frame
Sec. 9.16 - Cod. 10.3962.00

Centralized washing system Multi-Pressure from 20 to 150 Bar - 2 Pump

Optional accessories



Ball valve Inox AISI 316 A.P. ½ "
FF with Lever
Sec. 9.15 Cod. 40.3018.00



Stainless steel wall holder for lances
with Ø 14 pin
Sec. 9.17 Cod. 20.0560.06



Foam Lance
Sec. 9.8 - Cod. 10.2218.00



ABS Protection Cover
Sec. 2.2 - Cod. 10.2939.00

Centralized washing system Multi-Pressure from 20 to 130 Bar

2.3



Modula Plus is based on the same philosophy as the **FMT6** concept, but with **high flow rate pump systems and inverter**. The combination of **high efficiency electric motor and inverter**, together with a control system acting through a dedicated electronic control unit has resulted an innovative, reliable variable speed unit, adaptable to all industrial washing needs. As with all inverter systems, **Modula Plus** is in line with the new **"Green Industry"** trends to **reduce energy waste**, helping to save on electrical consumption and above all respecting the surrounding environment.

The use of **inverters** improves energy efficiency, obtaining:

- Energy savings of as much as 30-40% depending on load;
- More rational use of the motor and pump, extending their working life;
- Less heat dissipated by the electric motor;
- Less vibration on start up and operation of the pump assembly, thanks to modulation of power in relation to the flow rates required;
- Electrical circuit optimised in both the transient and full-load current drawn;
- Return on investment generally in less than 24 months;
- Less maintenance;

Available in 4.0
Configuration



Elementi comuni a tutti gli impianti Modula Plus 2



LCD+PLC



Special piston pump

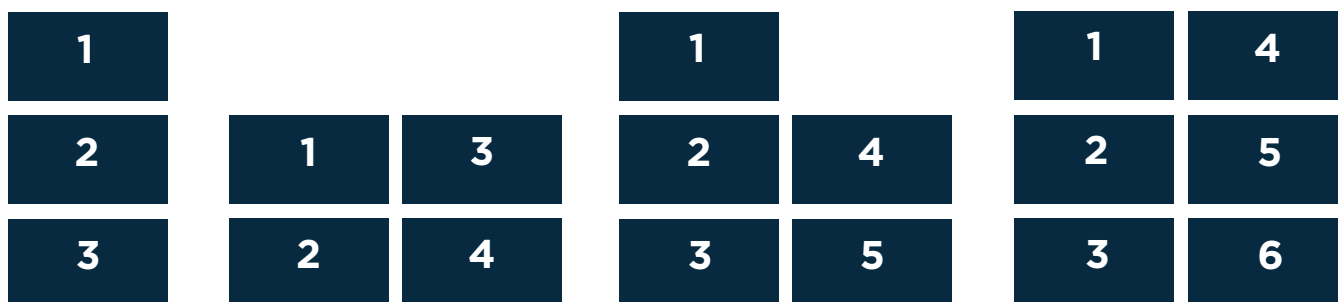


Electrical panel

Centralized washing system Multi-Pressure from 20 to 130 Bar

2.3

Modules configuration



Available configurations

CODE	MAX. FLOW RATE (lt/min)	N° OF PUMPS	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	RPM	WEIGHT	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
10.1243.00	180	3x60 lt	20 - 150	55,5	1000	900	1595 x 1800 x 835	75°C	9 - 12
10.3836.00	240	4x60 lt	20 - 150	74	1000	1200	2995 x 1281 x 835	75°C	12 - 15
10.2456.00	300	5x60 lt	20 - 150	92,5	1000	1500	2850 x 1810 x 832	75°C	15 - 18
10.1095.00	360	6x60 lt	20 - 150	111	1000	1800	2850 x 1810 x 831	75°C	18 - 24

Technical features

- Low voltage controls (24 volt)
- Working pressure adjustment
- Water flow rate adjustment
- Control module with Touchscreen Electronic Control Unit
- PID system for the pump pressure control
- Transducer of pressure control 4/20 mA
- Temperature sensor
- Contemporary use of more lances at the same time
- Switch off of the pumps in excess till the total switch off of the pumps if not used
- Possibility to have different pressure and flow in different washing zones
- Water lack contro
- Over temperature safety contro
- Block of the plant in case of breack of h.p. hose
- Additional control on the entire system
- IP65 control power panel
- Piston pump (75 ° C)
- Structure made of stainless steel
- Available in 4.0 configuration

Centralized washing system Multi-Pressure from 20 to 130 Bar

2.3

Optional accessories



S/s washing lance cm 90 without nozzle complete of pin $\varnothing$ 14 **Sec. 9.4 - Cod. 10.2219.00**



S/s nozzle 1/8"
Sec. 9.7



Gun with coupling $\varnothing$ 14
Sec. 9.9 - Cod. 10.1364.00



H.p. hose R2 " L= 15 or 20 mt..
Sec. 9.10 - Cod. 10.3534.00 - RZ
Cod. 10.3474.00 - RZ



S/S Stainless Steel
Manual Hose Reel 20 mt
Sec. 9.2 - Cod. 10.1495.00 - R/X
Cod. 10.3488.00 - R/Z



S/S Automatic Hose Reel
High Pressure 20 mt
Sec. 9.1 - Cod. 10.5007.00
Cod. 10.5019.00 - R/X



Quick coupling and fittings
Sec. 9.11



Wide range of foam dispenser stations - Stationary and mobile
Sec. 7.7 - 7.8



300 Lt plastic feeding tank complete
with controls and pump - S/s frame
Sec. 9.16-Cod. 10.3891.00-0,75 (3P)
cod. 10.3960.00 (4-5P)
cod. 10.3961.00 (6P)

Centralized washing system Multi-Pressure from 20 to 130 Bar

2.3

Optional accessories



Ball valve Inox AISI 316 A.P. ½ "
FF with Lever
Sec. 9.15 Cod. 40.3018.00



Stainless steel wall holder for lances
with Ø 14 pin
Sec. 9.17 Cod. 20.05



Foam Lance
Sec. 9.8 - Cod. 10.2218.00

2.4

Centralized hot washing system Pressure adjustable from 20 to 200 Bar



Static really represents the evolution of the species in the high pressure **hot water washing range**.

Sturdy, reliable and super-equipped, it is the natural evolution of the classic pressure washer, but with technological contents at the highest levels. Everything is already provided on the machine: from the electrical panel complete with 2-position switch completed by **LEDs for immediate control of any anomalies**.

The dedicated electronic equipment developed by the Vema technical staff is able to completely manage the operation of the system, automating all the operation and **control procedures of the pump and the boiler**, where any anomalies are made visible through the luminous LEDs. placed on the front of the machine.

The wardrobe is made entirely of Aisi/304 stainless steel and has adjustable feet as well as a front door that can be opened at 180 °, which facilitates inspection and any checks on all machine parts.

The very high efficiency vertical oil boiler is equipped with flame control and is capable of delivering hot water instantly up to 90 °C.

The controls are made in low voltage 24 V and the shutdown is in Total Stop timed when the lance is closed. Furthermore, the use of Static is among the most rational of all as the operator simply has to rotate the switch on the front and open the special lance to start the washing phases.

STATIC

HIGH PRESSURE HOT WASHING

Centralized hot washing system Pressure adjustable from 20 to 200 Bar

2.4

Available configurations

CODE	MAX. FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (kW)	RPM	WEIGHT	DIMENSIONS LxHxP (mm)	FUEL CONSUMPTION (kg/h)	MAX. OUTPUT TEMP.	MAX. N° OF USERS
10.5943.00	11	20 - 110	2,2x230 V	1450	190	800X600X1700	5	90°C	1
10.1657.00	15	20 - 200	5,5x400 V	1450	190	800X600X1700	6,3	90°C	1
10.5944.00	21	20 - 150	5,5x400 V	1450	190	800X600X1700	7,9	90°C	1
10.4356.00	30	20 - 150	7,5x400 V	1450	205	800x600x1700	11	90°C	1

Technical features

- Low voltage controls (24 volt)
- Timed Total Stop
- Electronic chip to control the machine function
- Over temperature 95° C safety control
- Fuel lack control
- Working pressure adjustment
- Pressure indicator
- Pressure controls
- Pump with 3 ceramic pistons and s/s valve
- IP65 Control panel
- H.p. chemical suction with dosing pump (Optional)
- Flame control
- Heavy metal frame (Aisi/304 Stainless Steel)
- Limestone system (optional)
- Inside fuel tank da 30 Lt complete of level controls (Optional)
- Predisposition for fixing at the ground
- Pre and post ventilation of the burner motor
- S/s vertical boiler complete of flame control
- Hight thermal efficiency with less emissions from the chimney
- Low water safety.

Centralized hot washing system Pressure adjustable from 20 to 200 Bar

2.4

Supplied accessories



90 cm stainless steel athermic lance without nozzle Ø 14 coupling gun
Sec. 9.4 - Cod. 10.2219.00 Sec. 9.9 - Cod. 10.1364.00



S/s nozzle 1/8"
Sec. 9.7

15 m high-pressure R2 3/8" hose, anti-stain,
with zinc-plated female fittings crimped 3/8"
Sec. 9.10 - Cod. 10.3534.00



Optional accessories



S/s rain protection
Cod. 10.4374.00



Dosing pump for limestone with
electronic control and nitrile
seals 5 l/min - 7 Bar
Cod. 40.2379.00



S/S Automatic Hose Reel
High Pressure 20 mt
Cod. 10.5007.00 - Sec. 9.1



Anti-freeze Fan heater complete
of thermostat
Cod. 40.4358.00



Remote control
Cod. 10.4320.00



Foam System 1
(Single double suction)
Sec. 7.7 - Cod. 10.3639.00



S/S Foam Lance
Sec. 9.8 - Cod. 10.2218.00

Centralized hot washing system Pressure adjustable from 20 to 200 Bar

2.5



Reliability, efficiency, safety.

ETW centralized variable pressure systems are characterized by their modularity from one to two lances in simultaneous use, with **adjustable pressure from 20 to 200 bar**, a flow rate per pump of **15-21 lt / min** each.

The automation of the system adjusts the flow rate to the number of users actually used moment by moment, always ensuring the pressure value set at each washing point.

The excess pump stops automatically after ten seconds until it is completely switched off, which will always take place in time with the closure of all utilities.

The relevant panel is equipped with a very modern electronic equipment that is able to fully and automatically manage the centralized washing system with 2 pump modules, in particular for the following functions:

- **Control and display of the pressure** set by electronic pressure switch and digital display.
- **Control of the demand for pressurized water** and automatic insertion of the power modules.
- **Control of the water temperature** in supply and digital display.
- **Safety against multiple simultaneous insertions**, the power modules are inserted a few seconds apart from each other in order to avoid absorption peaks on the electricity line.
- **Statistical start-up**: The choice of the power module to be inserted is done randomly, thus obtaining the uniform distribution of the load on the various modules.

Forwarding at any time it is possible to check the safety of the system in the event of a pipe break, excessive water temperature and overpressure in the network.

Available configurations

CODE	MAX. FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	POWER SUPPLY (Volt)	DIMENSIONS LxHxP (mm)	WEIGHT	WATER TEMPERATURE	MAX. N° OF USERS
10.3178.00	30 (2x15 lt)	20 - 200	11	400 V - 3~	760x925x925	180	75°C	2
10.3179.00	42 (2x21 lt)	20 - 160	11	400 V - 3~	760x925x925	180	75°C	2 - 3

Centralized multi-pressure washing system from 20 to 200 Bar

2.5

Technical features

- Low-voltage controls (24 V)
- Adjustment of operating pressure
- Adjustment of water flow rate
- Automatic pump management via PLC
- Simultaneous use of multiple spray guns on the same line
- Automatic shutdown of excess pumps up to complete system shutdown in case of non-use
- Possibility of having different pressures and flow rates in multiple washing zones
- 50-liter stainless steel storage tank with alarm and level controls
- Feed water shortage control
- System shutdown in case of overheating
- System shutdown in case of high-pressure hose failure
- Control panel with IP65 protection rating
- UNI pump with high-temperature seals up to 75 °C
- Digital display for pressure and temperature indication
- Stainless steel frame with anti-vibration mounts

Optional accessories



90 cm stainless steel athermic lance without nozzle Ø 14 coupling gun **Sec. 9.4 - Cod. 10.2219.00**



S/s nozzle 1/8"
Sec. 9.7



Gun with coupling Ø 14
Sec. 9.9 - Cod. 10.1364.00



H.P hose R2 1/2" 15 or 20 mt.
Sec. 9.10 - Cod. 10.3534.00
Cod. 10.3474.00

Centralized multi-pressure washing system from 20 to 200 Bar

2.5

Optional accessories



S/S Stainless Steel
Manual Hose Reel 20 mt
Sec. 9.2 - Cod. 10.1495.00 - R/X
Cod. 10.3488.00 - R/Z

S/S Automatic Hose Reel
High Pressure 20 mt
Sec. 9.1 - Cod. 10.5007.00 - R/Z
Cod. 10.5019.00 - R/X

Quick couplings and fittings
Sec. 9.11



Wide range of foam dispenser stations - Stationary and mobile
Sec. 7.7 - 7.8

Centralized washing system Multi-Pressure (2/3 Pumps) 20-200 Bar

2.5



The **FMT6 Special** high and medium pressure centralized washing system consists of two/three pump modules with **adjustable pressure from 20 to 200 bars** and pump **flow rate of 15, 21, 30 litres/min**, a control module and a wall mounted electrical panel.

This type of installation has the same characteristics as the 6 pump model, apart from the electrical panel. Although without electronic control, this manages the entire system automatically thanks to the **4/20 mA electronic transducer**, with display of both pressure and temperature on a digital display with two adjustable thresholds.

This new applied technology has enabled **VEMA** to considerably reduce the cost of these systems, while maintaining the standards of quality, reliability and safety typical of the company's products.

Not more than 3 pumps.

Common elements for Multi-Pressure



Control module
Cod. 2000/X



Polyester IP65 Power panel
complete of controls

2.5

Available configurations

FMT6 Special 2 pumps

CODE	MAX. FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	POWER SUPPLY (Volt)	RPM	WEIGHT	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
10.4835.00	30 (2x15 lt)	20 - 200	11	400	1450	130	700x1300x450	75°C	2
10.1830.00	42 (2x21 lt)	20 - 150	11	400	1450	140	700x1300x450	75°C	2-3
10.4836.00	60 (2x30 lt)	20 - 100	11	400	1450	150	700x1300x450	75°C	3-4

FMT6 Special 3 pumps

CODE	MAX. FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	POWER SUPPLY (Volt)	RPM	WEIGHT	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
10.4837.00	45 (3x15 lt)	20 - 200	16,5	400	1450	195	700x1700x450	75°C	3
10.4838.00	63 (3x21 lt)	20 - 150	16,5	400	1450	205	700x1300x450	75°C	3-4
10.4839.00	90 (3x30 lt)	20 - 100	16,5	400	1450	400	700x1700x450	75°C	4-6

Technical features

- Low voltage controls (24 volt)
- Pressure adjustment
- Water flow rate adjustment
- Automatic administration of the pumps by small Plc
- Possibility to work with more lances at the same time
- Switch off of the pumps in excess till the total switch off of the pumps if not used
- Possibility to have different pressure and flow in different washing zones
- Water lack control
- Block of the plant in case of over temperature
- Block of the plant in case of breack of h.p. hose
- IP65 electric control panel
- Pump with ceramic pistons an s/s valves
- Digital display for temperature and pressure
- S/s frame with preformed panels

Centralized washing system Multi-Pressure (2/3 Pumps) 20-200 Bar

2.6

Optional accessories



90 cm stainless steel athermic lance without nozzle Ø 14 coupling gun **Sec. 9.4 - Cod. 10.2219.00**



S/s nozzle 1/8"
Sec. 9.7



Gun with coupling Ø 14
Sec. 9.9 - Cod. 10.1364.00



H.P. hose R2 1/2" 15 or 20 mt.
Sec. 9.10 - Cod. 10.3534.00 - R/Z
Cod. 10.3474.00 - R/Z



S/S Stainless Steel
Manual Hose Reel 20 mt
Sec. 9.2 - Cod. 10.1495.00 -R/X
cod. 10.3488.00 -R/Z



S/S Automatic Hose Reel
High Pressure 20 mt
Sec. 9.1 - Cod. 10.5007.00 -R/Z
cod. 10.5019.00 -R/X



Quick couplings and fittings
Sec. 9.11



Wide range of foam dispenser stations - Stationary and mobile
Sec. 7.7 - 7.8



300 Lt plastic feeding tank complete
with controls and pump - S/s frame
Sec. 9.16 - Cod. 10.3962.00

Centralized washing system Multi- Pressure (2/3 Pumps) 20-200 Bar

2.6

Optional accessories



Ball valve Inox AISI 316 A.P. ½ "
FF with Lever
Sec. 9.15 Cod. 40.3018.00



Stainless steel wall holder for lances
with Ø 14 pin
Sec. 9.17 Cod. 20.0560.06



Foam lance
Sec. 9.8 - Cod. 10.2218.00

Centralized washing system Multi-Pressure from 20 to 200 bar

2.7



RELIABILITY, EFFICIENCY, SAFETY.

The main features of **FMT6** centralised variable pressure washing systems are their modularity with use of from one to six lances simultaneously, **pressure adjustable from 20 to 200 bars**, pump **flow rate of 15, 12, 30 litres/minute** and automation. The number of lances which can be used simultaneously is established during the design phase, then the system adjusts the flow rate to the number of lances actually in use at any moment, guaranteeing constant pressure at each washing point.

Excess pumps are turned off automatically after about 10 seconds, with delayed total stop of the washing system itself when all the lances are closed.

The control and pressure and flow regulation module is located at the top of the machine and the electrical panel is wall mounted in the most suitable location, even at some distance from the power modules.

The **electrical panel includes an ultra-modern electronic device** which automatically controls the entire centralised 2 to 6 pump module washing system, in particular the following functions:

Common Elements for Centralized Multi-Pressure systems



Control Module S/s Frame
Cod. 10.4376.00



Polyester IP65 Power panel complete of electronic board with digital control and display PLC
Cod. 10.4319.00

1. **Control and display of the pressure set** with electronic pressure switch and digital display;
2. **Control of the demand for pressurised water** and automatic start up of the power modules;
3. **Control of inflow water temperature** with digital display;
4. **Protection against simultaneous start up** of the power modules; start up of the power modules is staggered by a few seconds to avoid current peaks on the electricity line;
5. **Statistical startup.**

The power module to start up is chosen at random to ensure uniform load distribution among the various modules.

The safety of the system in the event of damaged hose, excessive water temperature or mains overpressure can also be monitored at all times.

Available in 4.0
Configuration



Centralized washing system Multi-Pressure from 20 to 200 bar

2.7

Available configurations

CODE	MAX. FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	POWER SUPPLY (Volt)	RPM	WEIGHT	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
10.4390.00	3x15=45	20 - 200	16,5	400	1450	210	700x1600x450	75°C	3
10.4118.00	3x21=63	20 - 150	16,5	400	1450	225	700x1600x450	75°C	3-4
10.4404.00	3x30=90	20 - 100	16,5	400	1450	240	700x1600x450	75°C	4-6
10.4405.00	4x15=60	20 - 200	22	400	1450	260	1400x1200x450	75°C	4
10.4406.00	4x21=84	20 - 150	22	400	1450	280	1400x1200x450	75°C	4-6
10.4407.00	4x30=120	20 - 100	22	400	1450	300	1400x1200x450	75°C	6-8
10.4408.00	5x15=75	20 - 200	27,5	400	1450	310	1400x1600x450	75°C	5
10.4409.00	5x21=105	20 - 150	27,5	400	1450	335	1400x1600x450	75°C	5-7
10.4410.00	5x30=150	20 - 100	27,5	400	1450	360	1400x1600x450	75°C	7-10
10.1076.00	5x15=90	20 - 200	33	400	1450	360	1400x1600x450	75°C	6
10.4377.00	6x21=126	20 - 150	33	400	1450	390	1400x1600x450	75°C	6-8
10.4411.00	6x30=180	20 - 100	33	400	1450	420	1400x1600x450	75°C	8-12

Technical features

- Low voltage controls (24 volt)
- Pressure adjustment
- Water flow rate adjustment
- Automatic administration of the pumps by electronic unit
- Possibility to work with more lances at the same time
- Automatic switch off of the pumps when not used
- Possibility to have different flow rate and different pressure in different washing zone
- Water lack control
- Over temperature safety control
- Block of the plant in case of break of h.p. hose
- IP65 control panel
- UNI pump compelte of seal for hight temperature up to 75° C
- Digital display for temperature and pressure
- Stainless steel frame with anti-vibration mounts

Centralized washing system Multi-Pressure from 20 to 200 bar

2.7

Optional accessories



90 cm stainless steel athermic lance without nozzle Ø 14 coupling gun **Sec. 9.4 - Cod. 10.2219.00**



S/s nozzle 1/8"
Sec. 9.7



Gun with coupling Ø 14
Sec. 9.9 - Cod. 10.1364.00



H.P. hose R2 1/2" 15 or 20 mt.
Sec. 9.10 - Cod. 10.3534.00 - R/Z
Cod. 10.3474.00 (mt 20) - R/Z



S/S Stainless Steel
Manual Hose Reel 20 mt
Sec. 9.2 - Cod. 10.1495.00 - R/X
cod. 10.3488.00 - R/Z



S/S Automatic Hose Reel
High Pressure 20 mt
Sec. 9.1 - Cod. 10.5007.00 - R/Z
cod. 10.5019.00 - R/X



Quick couplings and fittings
Sec. 9.11



Wide range of foam dispenser stations - Stationary and mobile
Sec. 7.7 - 7.8



300 Lt plastic feeding tank complete
with controls and pump - S/s frame
Sec. 9.16 - Cod. 10.3962.00

R/X: Stainless steel press fitting pipe
R/Z: Galvanized press fitting pipe

Centralized washing system Multi-Pressure from 20 to 200 bar

2.7

Optional accessories



Ball valve Inox AISI 316 A.P. ½"
FF with Lever
Sec. 9.15 Cod. 40.3018.00



Stainless steel wall holder for lances
with Ø 14 pin
Sec. 9.17 Cod. 20.0560.06



Foam lance
Sec. 9.8 - Cod. 10.2218.00



MULTI-PRESSURE MOBILE SYSTEMS

3.1



FDR Super



FDR Super Air



Exclusive (patented) foam dosing system in
Aisi / 316 with by-pass

Mobile cleaning unit With Aisi/316 foam dispenser system from 20 to 200 Bar

Entirely designed and produced by **VEMA**, with an eye on all cleaning needs in the various sectors of the food industry.

This washing machine represents a mix of exceptional **safety, functionality, power, efficiency and durability**. The pressure can be adjusted from **20 to 200 bars** with **flow rates of from 15 to 21 l/min**

The machine is fitted with a support for manual hose reel (**optional**) with 20m high pressure hose and practical pull-out trigger gun, lance holders, **30 kg detergent container holder** (2 X 30 kg with foam system dual suction) and reliable stainless steel dispenser system with bypass for foam distribution.

The ease of movement thanks to the four wheels, delayed total stop device activated by closing the lance with zeroing of pressure in the delivery hose, high manoeuvrability of the **low voltage (24 V) machine controls**, special seal system suitable for hot water even at a temperature of more than **80°C** and attractive elegant design make this great little washing machine the best answer to all the indoor and outdoor cleaning needs of every company, simplifying the work of cleaning operatives, particularly in the food sector.

FDR SUPER

PRESSURE FROM 20 TO 200 BAR

Mobile cleaning unit With Aisi/316 foam dispenser system from 20 to 200 Bar

3.1

Available configurations

CODE	MAX. FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	POWER SUPPLY (Volt)	RPM	WEIGHT (kg)	*DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
FDR SUPER WITH STAINLESS STEEL DETERGENT DOSING SYSTEM FOR USE OVER 100 BAR									
10.3573.00	15	20 - 200	5,5	400	1450	100	550x1000x1000	75°C	1
10.3575.00	Same as model 10.3573.00 but without fitted manual hose reel				1450	90	550x850x1000	75°C	1
10.3574.00	21	20 - 150	5,5	400	1450	100	550x1000x1000	75°C	1
10.3576.00	Same as model 10.3574.00 but without fitted manual hose reel				1450	90	550x850x1000	75°C	1
FDR SUPER AIR WITH STAINLESS STEEL DETERGENT DOSING SYSTEM FOR USE LESS THAN 100 BAR									
10.3494.00	15	20 - 90	5,5	400	1450	100	550x1000x1000	75°C	1
10.3511.00	Same as model 10.3494.00 but without fitted manual hose reel				1450	90	550x850x1000	75°C	1
10.3495.00	21	20 - 90	5,5	400	1450	100	550x1000x1000	75°C	1
10.3512.00	Same as model 10.3495.00 but without fitted manual hose reel				1450	90	550x850x1000	75°C	1

* For models with double drum holder p = 1014 mm

For super air models, connection to a compressed air pipe must be provided (from 4 to 6 bar max)

Technical features

- Low voltage controls (24 volt).
- Total stop
- Motor protection circuit breaker
- Over temperature 80 ° C safety control
- Pressure adjustment
- Pressure indicator
- Pressure and flow controls
- Pump with s/s piston covered by ceramics and immersion lubrication.
- IP55 control panel.
- S/s dosing system Aisi/316 complete of by-pass for foam and disinfection
- Air system for a more compact foam (only for Super –Air version)
- Chemical tank 30 Kg (2 x 30 Kg with dual holder tank)
- S/s frame

Mobile cleaning unit With Aisi/316 foam dispenser system from 20 to 200 Bar

Supplied accessories



S/s washing lance cm 90 without nozzle complete of pin ø 14
Sec. 9.4 - Cod. 10.2219.00



S/s Foam lance cm complete of
nozzle and pin ø 14 (only for
FDR Super Air) **Sec. 9.8 - Cod.
10.3540.00**



Lancia Schiuma INOX per FDR super
Sec. 9.8 - Cod. 10.2218.00



S/s nozzle 1/8"
Sec. 9.7



H.p. gun with coupling Ø 14
Sec. 9.9 - Cod. 10.1364.00



H.P. hose R/2 L= 20 mt.
Crimped 3/8" zinc. female
Sec. 9.10 - Cod. 10.3474.00 - R/Z
Cod. 10.1491.00 - R/X

Optional accessories



S.s manual hose reel
Sec. 9.2 - Cod. 10.1495.00
(di serie su alcuni modelli)



S/S Dual holder for tank with
wheel
Cod. 10.2248.00



Kit Double Suction
S/S Dual holder for tank with
N. 02 Ball Valves for dosing
detergents
Cod. 10.3508.00

Mobile washing unit without foam system from 20 to 200 Bar

3.2



Entirely designed and produced by **VEMA** with an eye on the cleaning needs of a various range of sectors, this unit represents a mix of exceptional safety, functionality, power, efficiency and durability. **The pressure can be adjusted from 20 to 200 bars with flow rates of from 15 to 21 l/min.**

The machine is fitted with a support for manual hose reel (optional), also available with 15 mt. high pressure hose, practical stainless steel lance with pull-out trigger gun, support for a 15 kg detergent container and reliable detergent dispenser system.

The ease of movement thanks to the four wheels, delayed total stop device activated by closing the lance with zeroing of pressure in the delivery hose, high maneuverability of the **low voltage (24 V) machine controls**, special seal system suitable for hot water even at a temperature of more than **80°C** and attractive elegant design make this great little washing machine the best answer to all the indoor and outdoor cleaning needs of every company.

FDR Base

PRESSURE FROM 20 TO 200 BAR

Mobile washing unit without foam system from 20 to 200 Bar

3.2

Available configurations

CODE	MAX. FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	POWER SUPPLY (Volt)	RPM	WEIGHT (kg)	*DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMPERATURE	MAX. N° OF USERS
10.3513.00*	15	20 - 200	5,5	400	1450	82	550x850x1000	75°C	1
10.3514.00*	21	20 - 150	5,5	400	1450	92	550x850x1000	75°C	1
*Same as model 10.3513.00 but with fitted automatic hose reel									
10.3515.00	15	20 - 200	5,5	400	1450	87	550x1000x1000	75°C	1
10.3516.00	21	20 - 150	5,5	400	1450	97	550x1000x1000	75°C	1
* Same as model 10.3514.00 but with fitted automatic hose reel									

Technical features

- Low voltage controls (24 volt)
- Total stop
- Motor protection circuit breaker
- Over temperature 80° C safety control
- Pressure adjustment
- Pressure indicator
- Pressure and flow controls
- Pump with ceramic pistons and s/s valve
- IP55 control panel
- Chemical suction in L.p. by injector
- S/s frame
- Dosing system
- Chemical distribution in Low pressure
- Cover in preformed Abs
- Detergent tank 25 kg

Supplied accessories



90 cm stainless steel athermic lance without nozzle - gun ST2300 Sw
Sec 9.6 - Cod. 10.3532.00



S/s Nozzle 1/4"
Sec. 9.7



Supporto inox per tubi
Sec. 9.17 - Cod. 10.1335.00



H.p. hose R/2 L= 15mt.
crimped 3/8" zinc female.
Sec. 9.10 - Cod. 10.3474.00

Wheeled washing machine from 20 to 500 bar with cold water

3.3



HD Evolution is a professional mobile washing machine. Its tough **100% steel structure** and maneuverability make it ideal to be used in difficult work environments and it is particularly suitable for special assemblies, such as the very **high pressure versions at 500 bars**.

Thanks to its characteristics, the **HD Evolution** has a particularly effective cleaning action, speeding up work and therefore saving considerable operator's time.

The attention to details and the quality of the products used are a guarantee of safety for the operator, the environment and the machine itself.

Great care has been taken over every detail of assembly to facilitate access and repairs.

The **24 V control panel** controls the entire washing machine effectively.

Various optional accessories are available to adapt the washing machine to specific work situations.

Versions with inverter are available on request.

HD Evolution

MAX PRESSURE 500 BAR

Wheeled washing machine from 20 to 500 bar with cold water

3.3

Available configurations

CODE	MAX. FLOW RATE (lt/min)	ADJUSTABLE PRESSURE (Bar)	POWER (KW)	POWER SUPPLY (Volt)	RPM	WEIGHT (kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMPERATURE
10.5947.00*	30	20 - 250	15	400	1450	210	1100x920x700	60°C
10.3763.00	30	20 - 300	18,5	400	1450	210	1100x920x700	60°C
10.5948.00	30	20 - 350	22	400	1000	290	1100x920x700	60°C
10.5949.00	25/30	20 - 500	30	400	1000	320	1100x920x700	60°C

* senza inverter ma con tecnologia SOFT STARTER - A richiesta i modelli con INVERTER possono essere realizzati con tecnologia SOFT STARTER che permette un recupero sostanziale dei costi

Technical features

- Inverter Technology
- Low Voltage controls (24 volt)
- Total stop
- Electronic card for lack in h.p.
- Block of the system if not used for an hour
- Over temperature 70 ° C. safety control
- Working pressure adjustment
- Pressure indicator
- Pressure controls
- Pump with 3 ceramic pistons and s/s valve
- IP65 control panel
- Chemical suction in h.p. (Optional)
- Heavy metal steel frame with S/s panels
- Water tank in observation of the antipollution standards
- Big front wheel and brake

Wheeled washing machine from 20 to 500 bar with cold water

3.3

Standard accessories only versions from 20 to 250 Bar



90 cm stainless steel athermic lance without nozzle - gun ST2300 Sw **Sec. 9.6 - Cod.**



S/s nozzle 1/8"
Sec. 9.7



H.p. hose. R/2 L= 15mt. Crimp 3/8 "
zinc. female
Sec. 9.10 - Cod. 10.3534.00

Accessori in dotazione solo versioni da 300 e 500



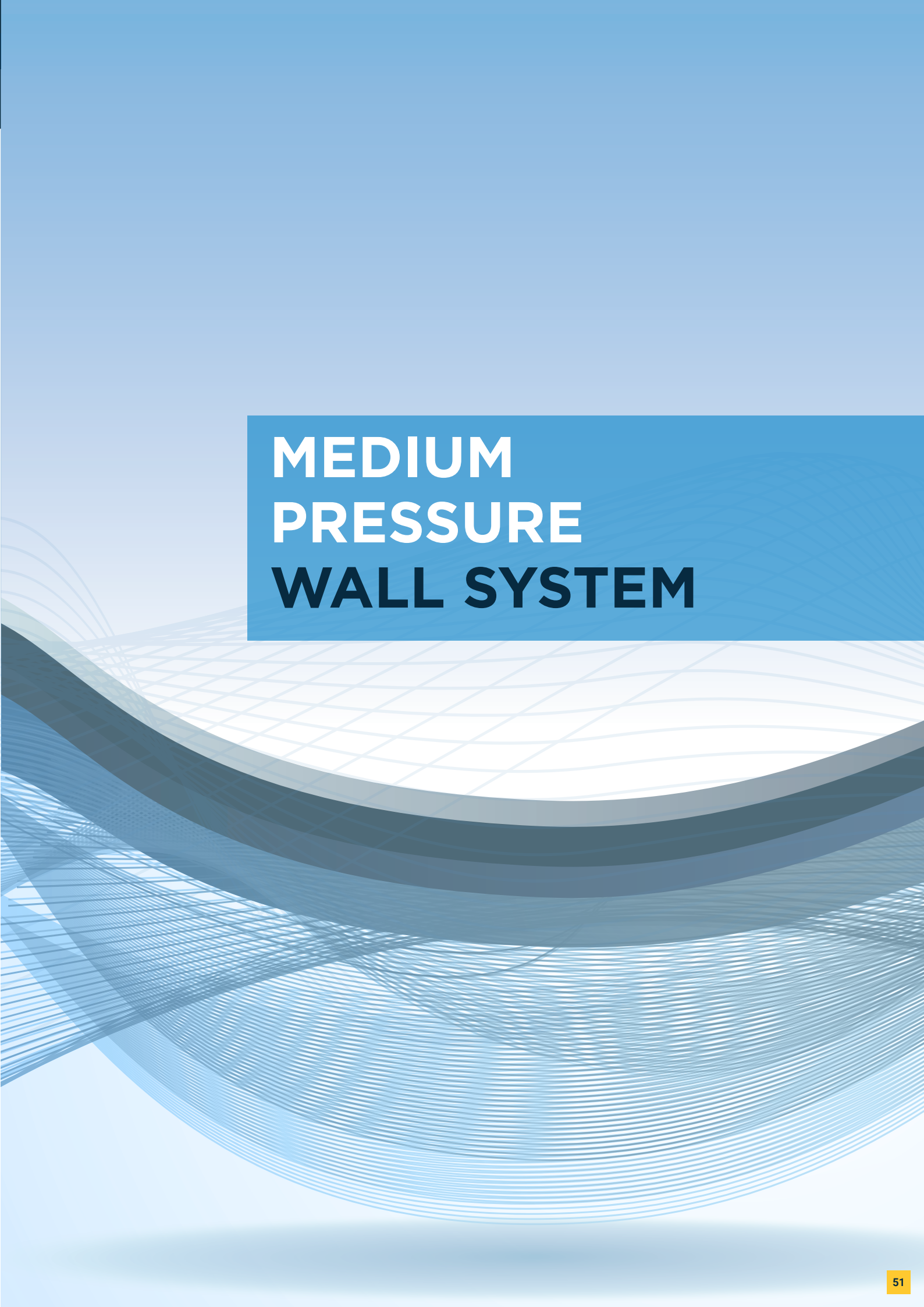
S/s washing lance cm 90 without nozzle,
complete of gun RL600 Sw **Cod. 40.6412.00**



H.p. pedals 700 Bar
Cod. 40.5950.00 (Optional)



H.p. hose VHP-700 Bar
Ø 12,75 mt FF 1/4"
Cod. 10.6411.00



MEDIUM PRESSURE WALL SYSTEM

4.1



Wall mounted or mobile medium pressure Washing machine 40 Bar Max

Hydra compact 40/21 is a genuine evolution among the medium/ low pressure systems.

Unique in its sector for compactness, low noise levels, reliability and **standard accessories**, it enables foaming, rinsing and disinfection processes to be optimised.

The system already incorporates all components, from the electrical panel to the 100% stainless steel dispensing system for foaming and disinfection, creating a highly reliable integrated combination to satisfy all sanitising needs.

The frame is in stainless steel and all parts of the machine can be easily inspected for servicing and control.

The pump absorbs just 2.5 kW, produces a **pressure of about 40 bars** with a **flow rate of 21 l/min** and is suitable for use with hot water up to **75°C**.

The **controls are low voltage (24 V)** and a delayed total stop function shuts down the system when the lance is closed.

As with all low to medium pressure systems, compressed air must be introduced to produce the foam.

The Hydra 40/21 is also one of the most rational washing machines to use as the operator simply needs to turn the knob on the front panel and insert the lance.

Mobile version



Wall mounted or mobile medium pressure Washing machine 40 Bar Max

4.1

Available configurations

CODE	MODEL	MAX. FLOW RATE (lt/min)	PRESSURE (Bar)	POWER (KW)	VOLTAGE (Volt)	RPM	WEIGHT (kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMPERA- TURE	MAX. N° OF USERS
10.4594.00	Wall	21	20 - 40	2,5	230 MF	1450	45	610x350x350	70°C	1
10.4595.00	Wall	21	20 - 40	2,5	400 T	1450	45	610x350x350	70°C	1
10.4597.00	Mobile	21	20 - 40	2,5	400 T	1450	70	585x1085x750	70°C	1
10.4596.00	Mobile	21	20 - 40	2,5	230 MF	1450	70	585x1085x750	70°C	1

Technical features

- Low voltage controls (24 volt)
- Total stop
- Over temperature 75 ° C. safety controls
- Pressure indicator
- Pressure adjustment
- Controls by flow sensor
- Pump with 3 ceramic pistons complete of special seals kit for high temperature
- IP65 control panel
- S/s dosing system complete of by-pass for foam and disinfection
- Compressed air adjustment complete of backflow security
- S/s frame
- Water lack controls

Wall mounted or mobile medium pressure Washing machine 40 Bar Max

4.1

Supplied accessories



S/s washing lance cm 70 without nozzle complete of pin Ø14
Sec. 9.4 - Cod. 10.2219.00



Foam lance for FDR Super Air
Sec. 9.8 - Cod. 10.3540.00



S/s nozzle 1/8"
Sec. 9.7



Gun with pin Ø 14
Sec. 9.9 - Cod. 10.1364.00



H.p. hose. R/2 L= 15mt.
Crimped 3/8" female zinc.
Sec. 9.10 - Cod. 10.3474.00



S/s wall holder for hose
Sec. 9.17 - Cod. 10.1335.00



S/s mounting bracket
Cod. 20.2073.06+ Cod. 20.0707.06
(Only for wall mounted version)

Optional accessories



Stainless steel manual hose reel
(without hose)
Sec. 9.2 - Cod. 10.0447.00



Stainless steel automatic hose reel
(without hose)
Sec. 9.1 - Cod. 10.3720.00

4.2

Wall mounted or mobile washing machine pressure from 20 to 50 Bar Max



The **Hydra 20/30** mobile washing machine is a genuine evolution among the medium/low pressure systems.

Unique in its sector for compactness, low noise levels, reliability and **standard accessories**, it enables foaming, rinsing and disinfection processes to be optimised, particularly in the food sector.

The system already incorporates all components, from the electrical panel with indicator lights to control pump rotation direction to the 100% stainless steel dispensing system for foaming and disinfection, creating a highly reliable integrated combination to satisfy all sanitising needs. The frame and trolley are in stainless steel and the washing **machine can accommodate two 30 kg detergent containers (mobile version only)**. All parts of the machine can be easily inspected for servicing and controls.

The pump absorbs just 2.2 kW, produces a **pressure of about 20 bars** with a **flow rate of more than 30 l/min** and can be used with **hot water up to 90°C**.

The controls are **low voltage (24 V)** and a delayed total stop function shuts down the system when the lance is closed.

As with all low to medium pressure systems, compressed air must be introduced to produce the foam.

The **Hydra 20/30** is also among the most rational washing machines to operate, as to start washing the operator simply needs to turn the lever on the front panel and insert the lance.

Mobile version



Wall mounted or mobile washing machine pressure from 20 to 50 Bar Max

4.2

Available configurations

MODEL	MAX. FLOW RATE (lt/min)	PRESS. (Bar)	POW. (KW)	VOLT. (Volt)	RPM	AIR. COM. POW. (KW)	WEI- GHT (kg)	DIMENSIONS (LxHxP) mm	MAX. IN- LET TEMP.	MAX. N° OF USERS	MAX. SUC. N°.	CODE
Wall	35	20	2,2	400 T	2800	-	60	480x1000x370	90°C	1	1	10.2883.00
Wall double suct.	35	20	2,2	400 T	2800	-	60	480x1000x370	90°C	1	2	10.4792.00
Mobile wheeled	35	20	2,2	400 T	2800	-	98	670x1090x760	90°C	1	1	10.4782.00
Mobile wheeled. double suct.	35	20	2,2	400 T	2800	-	98	670x1090x760	90°C	1	2	10.4783.00
Mobile wheeled. compressor	35	20	2,2	400 T	2800	0,75	112	670x1090x760	90°C	1	1	10.4784.00
Mobile double suct. wheeled compressor	35	20	2,2	400 T	2800	0,75	112	670x1090x760	90°C	1	2	10.4785.00
HYDRA 20/30 + (Models from 50 Bar - 50 lt/min wheeled, with double suction and compressor)												
Mobile wheeled	50	40	7,5	400 T	5000	-	120	670x1090x760	90°C	2	1	10.4786.00
Mobile wheeled. double suct.	50	40	7,5	400 T	5000	-	120	670x1090x760	90°C	2	2	10.4787.00
Mobile wheeled. compressor	50	40	7,5	400 T	5000	0,75	130	670x1090x760	90°C	2	1	10.4788.00
Mobile double suct. wheeled compressor	50	40	7,5	400 T	5000	0,75	130	670x1090x760	90°C	2	2	10.4789.00

Technical features

- Over temperature 95° C. safety control
- Pressure indicator
- Controls by electronic flow sensor
- Multistage s/s centrifugal pump
- IP65 control panel
- S/s dosing system complete of by-pass for foam and disinfection
- Compressed air adjustment complete of backflow security
- Thermoswitch on air compressor (only for versions with air compressor on board)
- S/s frame
- Water lack controls
- Control of the correct sense of motor rotation
- Low voltage controls (24 volt)
- Total stop

Wall mounted or mobile washing machine pressure from 20 to 50 Bar Max

Supplied accessories



S/s washing lance cm. 90 without nozzle and
Complete of s/s male quick coupling
Sut Sec. 9.4 - Cod. 10.0996.00



S/s foam lance cm 30 complete of
nozzle and s/s male quick coupling
Sec 9.8 - Cod. 10.0995.00



S/s nozzle 1/4" **Sec. 9.7**



S/s pin complete of nozzle straight
jet and protection
Cod. 10.4954.00



H.P. gun complete of swivel
Sec 9.9 - Cod. 40.2039.00



FOODJET. hose L= 20mt. S/s Crimped
1/2" female
Sec 9.10 - Cod. 10.1082.00



S/s manual hose reel
Sec 9.2 - Cod. 10.0447.00
(Only for mobile version)



S/s wall holder for 2 lances
Sec. 9.17 - Cod. 20.0559.06
(Only for wall mounted version)



S/s mounting bracket
Cod. 20.2653.06 Cod. 20.0707.06
(Only for wall mounted version)

Medium pressure
wall systems

4.2

Wall mounted or mobile washing machine pressure from 20 to 50 Bar Max

Optional accessories



S/s wall holder for hose
Sec 9.17 - Cod. 10.1335.00



S/s automatic hose reel (Without hose)
Sec. 9.1 - Cod. 10.0889.00



Air Compressor 0,75 Kw
400 V Three phases
Cod. 40.2437.00

4.3

Wall mounted or mobile medium pressure Washing machine 12 bar max

The **Hydra compact 12/25** is a latest generation low pressure washing machine designed and produced by **VEMA** to satisfy the demands of an increasingly more selective and demanding market.



The frame, pump and all control components are entirely made from stainless steel to satisfy the user's expectations and guarantee incomparable long term reliability with minimum noise levels.

Easy to use, compact, with a low maintenance requirement and excellent long term durability, it saves on both water and detergent by optimising all washing phases, obtaining excellent results.

Wheeled version



The **pump absorbs just 1.3 kW, produces a pressure of about 12 bars with a maximum flow rate of 35 l/min and can be used with hot water up to 90°C** The controls are **low voltage (24 V)** and a delayed **total stop function** shuts down the system when the lance is closed.

As with all low to medium pressure systems, compressed air must be introduced for foaming.

Water consumption during foaming is just 4 l/min with coverage of about 50/60 m2 per minute and detergent consumption of less than 3%.

If compressed air is not available, a version with built-in compressor is also available.

Mobile version



The **Hydra 12/25** is also among the most rational washing machines to operate, as to start washing the operator simply turns the lever on the front panel and inserts the lance.

Wall mounted or mobile medium pressure Washing machine 12 bar max

4.3

Available configurations

CODE	MODEL	MAX. FLOW RATE (lt/min)	PRESS. (Bar)	POW. (KW)	VOLT. (Volt)	RPM	AIR. COM. POW. ARIA (KW)	WEIGHT (kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP.	MAX. N° OF USERS
10.4779.00	Carrellata *	25/35	12/10	1,3	400 T	2900	-	70	550x1000x1000	90°C	1
10.4780.00	Carrellata * + compres.	25/35	12/10	1,3	400 T	2900	0,75	74	550x1000x1000	90°C	1
10.5228.00	Parete	25/35	12/10	1,3	230 MF	2900	-	35	610x350x350	90°C	1
10.5226.00	Parete	25/35	12/10	1,3	400 T	2900	-	35	610x350x350	90°C	1
10.5227.00	Parete + compres.	25/35	12/10	1,3	400 T	2900	0,75	48	610x350x350	90°C	1
10.5229.00	Mobile	25/35	12/10	1,3	230 MF	2900	-	55	500x1040x750	90°C	1
10.5230.00	Mobile	25/35	12/10	1,3	400 T	2900	-	55	500x1040x750	90°C	1
10.5231.00	Mobile + compres.	25/35	12/10	1,3	400 T	2900	0,75	68	500x1040x750	90°C	1

* Fitted manual hose reel

Double suction - With double barrel holder: Dimensions (LxHxP) 550x1000x1014 mm

(Optional - Cod. 10.3508.00)

Technical features

- Low voltage controls (24 volt)
- Total stop
- Over temperature 95 °C. safety control
- Pressure indicator
- Controls by electronic flow sensor
- S/s multistage centrifugal pump
- IP65 control panel
- S/s dosing system Aisi/316 complete of by-pass for foam and disinfection
- Compressed air adjustment complete of backflow security
- Thermoswitch on air compressor (only for versions with air compressor on board)
- S/s frame

4.3

Wall mounted or mobile medium pressure Washing machine 12 bar max

Supplied accessories



S/s washing lance without nozzle complete of male s/s coupling
Sut Sec. 9.4 - Cod. 10.0996.00



S/s foam lance cm 30 complete of
nozzle and s/s male quick coupling
Sec 9.8 - Cod. 10.0995.00



S/s nozzle 1/4"
Sec. 9.7



H.p. gun with swivel
Sec. 9.9 - Cod. 40.2039.00



FOODJET hose. hose L= 20mt. S/s
Crimped 1/2" female
Sec. 9.10 - Cod. 10.1082.00



Stainless steel SUT plug with
straight jet nozzle
and protective cover
Sec. 9.7 - Cod. 10.4954.00



S/s wall holder for hose
Sec 9.17 - Cod. 10.1335.00



S/s mounting bracket
Cod. 20.2073.06+Cod. 20.0707.06

(Mobile Version)

(Wall Version)

Optional accessories



S/s manual hose reel 1/2"
(without hose)
Sec. 9.2 Cod. - 10.0447.00



S/s automatic hose reel 1/2"
(without hose)
Sec. 9.1 - Cod. 10.0889.00



Kit Double Suction
S/S Dual holder for tank with
N. 02 Ball Valves for dosing deter-
gents **Cod. 10.3508.00**



MEDIUM PRESSURE CENTRALIZED SYSTEMS

Centralized washing system Medium Pressure from 20 to 40 Bar

5.1



Modula Smart is the best solution for medium pressure washing. The combination of high efficiency electric motor and inverter, combined with a selection of top quality components and components specifically designed by **VEMA**, has resulted in a highly versatile system with variable speed pump units.

The heart of the control module consists of a **PLC**.

Integration with 4/20 mA pressure, flow rate and temperature transducers and various control sensors, with a control software developed entirely by the **VEMA** technical team complete the system, making it completely independent in both operation and safety functions.

Modula Smart is therefore **VEMA's** solution to the problem of energy waste, enabling the electrical power consumed to be modulated according to the mechanical demand of the motor shaft.

Particularly in the presence of discontinuous loads, this improves energy efficiency, obtaining:

- **Energy savings as high as 30-40%** depending on load;
- **More rational use of the motor**, increasing its working life;
- **Less heat dissipated by the electric motor**;
- **Less vibration on start up** and operation of the pump assembly, thanks to modulation of power in relation to the flow rates required;
- **Electrical circuit optimised** in both the transient and full-load current drawn;
- **The inverter ensures a return on investment generally in less than 24 months**;
- **The possibility of reducing the operating speed in fluidodynamic machines** when the nominal speed (50 Hz) is not required also reduces mechanical wear and considerably lowers energy consumption as the relationship between absorbed power and speed is cubic and a slight reduction in Hz therefore means a considerable reduction in kW consumed.

For different flow rate and pressure requirements contact our technical office who will always be happy to discuss and analyse the most feasible solution for your specific needs.

Available in 4.0
Configuration



Centralized washing system Medium Pressure from 20 to 40 Bar

5.1

Available configurations

Models without tank (*Version without inverter)

MODEL	MAX. FLOW RATE (lt/min)	NUMBER OF PUMPS	PRESSURE (Bar)	POWER (kW)	RPM	DIMENSIONS (LxHxP) mm	MAX.IN-LET TEMP.	MAX. N° OF USERS
10.3500.00*	2 x 100	2	25	11	2900	800x1800x700	90°C	7
10.3971.00*	2 x 200	2	20	15	2900	800x1800x700	90°C	14
10.3974.00	2 x 50	2	50	15	5500	800x1800x700	90°C	4
10.1754.00	2 x 75	2	40	15	4800	800x1800x700	90°C	6
10.2979.00	3 x 75	3	40	22,5	4800	1175x1800x700	90°C	9
10.3976.00	4 x 75	4	40	30	4800	1480x1800x700	90°C	12

Models with tank (*Version without inverter)

MODEL	MAX. FLOW RATE (lt/min)	NUMBER OF PUMPS	PRESSURE (Bar)	POWER (kW)	RPM	DIMENSIONS (LxHxP) mm	MAX.IN-LET TEMP.	MAX. N° OF USERS
10.3501.00*	2 x 100	2	25	11	2900	1600x1800x700	90°C	7
10.3973.00*	2 x 200	2	20	15	2900	1600x1800x700	90°C	14
10.3975.00	2 x 50	2	50	15	5500	1600x1800x700	90°C	4
10.1728.00	2 x 75	2	40	15	4800	1600x1800x700	90°C	6
10.0579.00	3 x 75	3	40	22,5	4800	2100x1800x700	90°C	9
10.3977.00	4 x 75	4	40	30	4800	2310x1800x700	90°C	12

Technical features

- Low voltage controls (24 volt)
- Pressure adjustment
- Automatic water flow adjustment
- Setting of all the parametres by PLC
- Operating Software created by Vema
- Setting of all the parametres by PLC
- PID system for the pump pressure control
- Transducer of pressure 4/20 mA

Centralized washing system Medium Pressure from 20 to 40 Bar

5.1

Technical features

- Electronic flow sensor
- Contemporary use of more lances at the same time
- Automatic switch off of the pump if not used
- Automatic switch off of the pump if not used
- Possibility to have different pressure and flow in different wa-shing zones
- Water lack control
- Over temperature safety control
- Additiona safety control on the entire system
- Control and temperature adjustment (Optional)
- IP65 electric control panel
- IP65 S/s electric control panel (Optional)
- Impeller pumps with integrated inverter
- water storage tank and centrifugal pump (Optional)
- S/s frame.
- Available in 4.0 configuration

Optional accessories



S/s washing lave cm 90 without nozzle Complete of S/s
male quick coupling (cm 70)

Sec. 9.4 - (cm 70) Cod. 10.5598.00 - (cm 90) Cod. 10.0996.00



S/s foam lance 30 complete of noz
zle and S/s male quick coupling

Sec 9.8 - Cod. 10.0995.00



S/s nozzle 1/4"

Sec. 9.7



H.P Swivel gun 1/2"

Sec 9.9 - Cod. 40.2039.00



FOODJET 1/2 "80 Bar
hose 20/25/30 mt.

Sec 9.10 - Cod. 10.1082.00

Medium pressure
centralized systems

Centralized washing system Medium Pressure from 20 to 40 Bar

5.1

Optional accessories



Stainless steel SUT plug with
straight jet nozzle
and protective cover
Sec. 9.7 - Cod. 10.4954.00



S/S stainless steel
manual hose reel
Sec. 9.2 - Cod. 10.4153.00



S/S Automatic hose reel
high pressure 20 mt
Sec. 9.1 - Cod. 10.5077.00



Quick coupling and fittings
Sec. 9.11



Wide range of foam dispenser stations - Stationary and mobile
Sec. 7



Stainless steel wall holder for lances
with Ø 14 pin
Sec. 9.17 Cod. 20.0559.06



S/s Ball valve 1/2" F.F Lever Max
150 Bar (Sun WP)
Sec. 9.15 - Cod. 40.2101.00



300 Lt plastic feeding tank complete
with controls and pump - S/s frame
Sez. 9.16 - Cod. 10.3962.00 (150 lt)
Cod. 10.3891.00 (200 lt)
Cod. 10.3960.00 (300 lt)
Cod. 10.3961.00 (400 lt)

Centralized washing system at medium pressure up to 50 Bar

5.2



Hydra 40/75
Covered version

This **medium pressure washing system** offers low noise levels, low running costs and low aerosol production.

It consists of a low pressure system enabling all pre-washing, foam washing, rinsing and disinfecting operations to be performed by a single machine.

Depending on model, it delivers a **pressure of 20-50 bars** and a **flow rate per lance of about 25-30 l/min**. It provides excellent results combined with low running costs and above all improves work conditions.

It is fitted with a hydraulic control device with a completely automatic start-delayed stop function.

This type of washing machine has been conceived for centralization and is therefore designed for connection to piping where the outlets will be created to mount peripheral units which must include provision for compressed air to optimise the foaming phase.

A vast range of accessories, including lances, hoses, hose reels, foaming systems etc. are also available.

Available in 4.0
Configuration



Hydra 25/100
Covered version



Hydra 25/100
SKID version

5.2

Available configurations

CODE	MODEL	MAX. FLOW RATE (lt/min)	PRESSURE (Bar)	POWER (KW)	VOLTAGE (Volt)	RPM	WEIGHT (kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP.	MAX. N° OF USERS
10.1275.00*	Covered	100	25	5,5	400	2900	120	737x1769x495	90°C	3
10.3167.00	Covered	100	25	5,5	400	2900	170	737x1769x495	90°C	3
10.4802.00*	Covered	200	20	7,5	400	2900	200	737x1769x495	90°C	6
10.3932.00	Covered	200	20	7,5	400	2900	200	737x1769x495	90°C	6
10.5550.00	Covered	50	40	7,5	400	5500	170	737x1470x495	90°C	2
10.5252.00	Covered	75	40	7,5	400	4800	170	737x1470x495	90°C	3
10.5681.00*	SKID	100	25	5,5	400	2900	120	737x1769x495	90°C	3
10.5105.00	SKID	100	25	5,5	400	2900	120	737x1769x495	90°C	3
10.5951.00*	SKID	200	20	7,5	400	2900	150	737x1769x495	90°C	6
10.5952.00	SKID	200	20	7,5	400	2900	150	737x1769x495	90°C	6
10.5551.00	SKID	40	40	7,5	400	5500	120	737x1470x495	90°C	2
10.5431.00	SKID	75	40	7,5	400	4800	120	737x1470x495	90°C	3

* Version without inverter

Technical features

- Low voltage controls (24 volt).
- Water flow rate adjutment
- Contemporary use of more lances at the same time
- Automatic switch off of the plant if not used.
- Possibility to have different flow rate in different washing zones.
- Water lack controls
- Block of the plant in case of overtemperature
- IP65 electric control panel
- Centrifugal pump complete of special seals for hot water.
- Pressure indicators
- Electronic flow sensor
- Engine control by inverter

Centralized washing system at medium pressure up to 50 Bar

5.2

Optional accessories



S/s washing lance without nozzle
With s/s male quick coupling
Sec. 9.4 - (cm 70) Cod. 10.5598.00
(cm 90) Cod. 10.0996.00



S/s foam lance cm 30 complete of
nozzle and s/s male quick coupling
Sec 9.8 - Cod. 10.0995.00



S/s nozzle 1/4"
Sec. 9.7



Quick coupling and fittings
Sec. 9.11



H.p. gun complete of swivel
Sec. 9.9 - Cod. 40.2039.00



FOODJET 1/2 "80 Bar hose
20/25/30 mt.
Sec. 9.10 - 10.1082.00



S/s pin complete of nozzle straight
jet and protection
Cod. 10.4954.00



Manual hose reel
Sec. 9.2 Cod. 10.4153.00
(with hose mt 20)
Cod. 10.0447.00 (without hose)



Automatic hose reel
Sec. 9.1 Cod. 10.5077.00
(with hose mt 20)
Cod. 10.0889.00 (without hose)



S/s wall holder for hose
Sec. 9.17 - Cod. 10.1335.00



Wide range of foam dispenser stations— Stationary and mobile
Sec. 7

Medium pressure
centralized systems

Centralized washing system at medium pressure up to 50 Bar

5.2



300 Lt plastic feeding tank complete
with controls and pump - S/s frame
Sec. 9.16 - Cod. 10.3962.00 (Q=150 lt)
- Cod. 10.3891.00 (Q=200 lt)



Stainless steel wall holder for lances
with Ø 14 pin
Sec. 9.17 Cod. 20.0559.06



S/s Ball valve 1/2" F.F Lever Max
150 Bar (Sun WP)
Sec. 9.15 - Cod. 40.2101.00

BEVERAGE

Automatic Washing System – Fillers and Belts – 10 Bar 100/150 lt/min

6.1



The automatic washing system for fillers and belts mod. **AWL 1-2-3**, medium pressure, ensures low noise, low wear, low running costs, and low aerosol production.

It is a medium pressure system that allows you to perform, with a single work unit, all pre-wash, clean with multiple products, rinse and disinfection operations thanks to the automation provided on the machine managed by PLC and software if required, or the possibility of being able to integrate the system on plc and thirdparty software.

The system, according to the model, delivers a pressure of **10 bar** and a **flow rate that varies from 100 to 150 lt/min**.

It guarantees optimal results combined with low operating costs, and above all, improves the conditions of the working environment. It is equipped with devices for controlling incoming water, fluid temperature, and flow sensor, which allow total control of the system in the event of malfunctions.

This type of system has been designed to be centralized, and therefore already foreseen for connection to a pipe, where the various controlled outputs will be created.

Furthermore, it is possible to add washing **accessories** to the system with foam systems for manual washing on the machine, or to centralize the manual washing pipe away from the pumping unit.



AWL
MAX
PRESSURE
10 BAR

Automatic Washing System – Fillers and Belts – 10 Bar 100/150 lt/min

6.1

Available configurations

CODE	MODEL	MAX. FLOW RATE (lt/min)	PRESSURE (Bar)	POWER (KW)	VOLTAGE (Volt)	RPM	WEIGHT (kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP.	MAX. N° OF USERS
50.1977.00	AWL 91	100	10	1,5	400	2900	46	522x610x440	90°C	1
50.1978.00	AWL 92	100	10	1,5	400	2900	48	522x610x440	90°C	2
50.1979.00	AWL 93	100	10	1,5	400	2900	50	522x610x440	90°C	3
50.1879.00	AWL 181	150	10	3,0	400	2900	56	522x610x440	90°C	1
50.1976.00	AWL 182	150	10	3,0	400	2900	58	522x610x440	90°C	2
50.1882.00	AWL 183	150	10	3,0	400	2900	60	522x610x440	90°C	3

Kit for Covered mounting Cod. 10.0645.00

Technical features

- Low voltage controls (24 Vac / Vdc).
- Adjustment of the water flow
- Simultaneous use of multiple outlets on the same pipe
- Automatic shutdown of the system in case of non-use.
- Possibility of having different flow rates in multiple washing areas.
- Control of lack of water in the supply
- Blocking of the system in case of over temperature
- Electrical control panel, IP65 protection (If required)
- Centrifugal pump with special hot water resistant seals.
- Pressure indicator
- Electronic flow control
- Motor Control with Inverter (if required)

Automatic Washing System – Fillers and Belts – 10 Bar 100/150 lt/min

6.1

Accessories Manual Washing Kit Cod. 10.0998.00



S/s washing lance without nozzle With s/s male quick coupling Sut (cm 90) **Sec. 9.4 - Cod. 10.0996.00**



Lancia schiuma Inox cm 30 con ugello e innesto maschio Inox Sut- **Sec 9.8 - Cod. 10.0995.00**



S/s nozzle 1/4" **Sec. 9.7**



HP gun with swivel **Sec 9.9 - Cod. 40.2039.00**



Hose FOODJET 1/2" 80 Bar 20 mt. **Sec 9.10 - 10.1082.00**



Fittings and Quick Couplings + nipples + Injector



Pneumatic Valve **Cod. 40.0988.00**



Stainless steel wall holder for lances with Ø 14 pin **Sec. 9.17 Cod. 20.0559.06**



S/s Ball valve 1/2" F.F Lever Max 150 Bar (Sun WP) **Sec. 9.17 - Cod. 40.2101.00**

Automatic Washing System – Fillers and Belts – 10 Bar 100/150 lt/min

6.1

Optional accessories



S/s washing lance without nozzle
With s/s male quick coupling Sut
Sec. 9.4 - (cm 70) Cod. 10.5598.00
(cm 90) Cod. 10.0996.00



S/s foam lance cm 30 complete of
nozzle and s/s male quick coupling
Sec 9.8 - Cod. 10.0995.00



S/s nozzle 1/4"
Sec. 9.7



Quick coupling and fittings
Sec. 9.11



HP Gun with Swivel
Sec 9.9 - Cod. 40.2039.00



FOODJET 1/2 "50 Bar hose
20/25/30 mt.
Sec 9.10 - 10.1082.00



S/s pin complete of nozzle straight
jet and protection
Cod. 10.4954.00



S/s manual hose reel
Sec. 9.2 Cod. 10.4153.00
(with hose mt 20) - Cod. 10.0447.00
(without hose)



Automatic hose reel
Sec. 9.1 Cod. 10.5077.00
(with hose mt 20) - Cod. 10.0889.00
(without hose)



S/s wall holder for hose
Sec. 9.17 - Cod. 10.1335.00



Wide range of foam dispenser stations— Stationary and mobile
Sec. 7

Automatic Washing System – Fillers and Belts – 10 Bar 100/150 lt/min

6.1

Washing System for Filler (Example)



Washing System Conveyor Belts (Example)



FOAM SYSTEMS

Low pressure Foam Dosing Station from 2 to 8 Bar without compressed air



This **Compact Mousse** is a small **high performance foam dispenser**.

It uses just mains water.

It generates a very dense clinging foam, making it **ideal for cleaning vertical surfaces** and ceilings, **with low detergent consumption**.

Thanks to the **complete absence of vaporisation**, it can also be used in complete safety with very alkaline detergent foam.

The injector doesn't need compressed air to work

Foaming:

Minimum 2 Bars in absolute safety without vaporisation;

Rinsing:

With 3 Bars of pressure, water consumption about 35 lt/min;

Water:

From 2 to 8 Bars (normally mains pressure is between 2 and 4 bars);

Water flow:

250 l/h (mean value);

Working temperature:

With detergent foam, use of water at room temperature is recommended. However, water at a temperature of not more than 50°C can be used;

Surface treated:

About 25 m² per minute;

Dimensions:

95 x 80 x 35 mm (L x H x P);

Box weight:

1 Kg;

Material:

Stainless steel AISI/314;

Aspirated product:

From 0,1% to 10%;

Backflow valve;

Use mains water only.

Bar	Flow rate (l/min)	Flow rate (l/min)	Tag	Color
-	No flow	No flow		transparent
0,105	0,12	0,2500		Red
0,195	0,135	0,2000		Purple
0,285	0,150	0,1500		Blue
0,375	0,165	0,1000		Yellow
0,465	0,180	0,0500		Brown
0,555	0,195	0,0250		Orange
0,645	0,210	0,0125		Green
0,735	0,225	0,0060		Bronze
0,825	0,240	0,0030		Tan
0,915	0,255	0,0015		Blue
1,005	0,270	0,0008		White
1,095	0,285	0,0004		Red

Low pressure Foam Dosing Station from 2 to 8 Bar without compressed air

7.1

NEW

Available configurations

CODE	N° ASP.	MAX. FLOW RATE (lt/h)	WATER PRESSURE (Bar)	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS LxHxP (mm)	MAX. IN-LET TEMP
10.3789.00	1	250	2 - 8	0,1 - 10	5	95x80x35	50°C
10.4448.00	2	250	2 - 8	0,1 - 10	5	95x80x35	50°C

Included equipment

- S/s rotating fitting 1/2 "
- L.P Rubber hose - 15 mt
- Special foam lance with pin
- Pin with nozzle for flushing
- S/s special Aisi/316 fitting for microforated inserts
- Microperforated and colored inserts kit to determinate the percentage of aspirated product

Supplied accessories



L.P Gun RB35 Adjustable jet 12 Bar 50 Lt. + SW 1/2" Female - Mod. On/Off
Cod.40.4100.00



Dedicated foam lance with Pin
Cod. 10.4097.00



Plug with rinsing nozzle **Cod. 10.5188.00**



Hose FOODJET 1/2" 15 mt.
Cod. 10.6573.00

7.2



Single suction



Double suction

Low pressure injector for detergent dosing with mains water

Stainless steel injector supplied with $\frac{3}{4}$ " **swivel connection** for dosing any detergent at the desired concentrations instantly thanks to the supplied colored inserts and the simple passage of mains water already at a pressure of 1 Bar

Equipped with:

- B.P hose Ø 12 x 17 - 3 mt
- Micro-perforated * and colored inserts kit to determine the percentage of aspirated product
- N. 1 or 2 detergent suction hose 1,5 mt with filter

Application:

Filling, with dosage, of:

- Bottles;
- Drums & buckets; - Tanks
- Washer-dryer and / or distribution on any surface.

Q	Flow rate l/min	Flow rate l/min	Insert	Color
-	No hole	No hole		Transparent Clear
0,100	0,01	0,0100		Red
0,100	0,01	0,0100		Purple
0,100	0,01	0,0100		Yellow
0,100	0,01	0,0100		Green
0,100	0,01	0,0100		Orange
0,100	0,01	0,0100		Blue
0,100	0,01	0,0100		White
0,100	0,01	0,0100		Black

Available configurations

CODE	MAX. FLOW RATE (lt/h)	WORKING PRESSURE (Bar)	PERCENTAGE OF ASPIRATED PRODUCT (%)	IN-LET QUICK COUPLING	OUT-LET QUICK COUPLING	MAX. IN-LET TEMP
10.4874.00	840	2 - 8	0,5 - 10	Gir. $\frac{3}{4}$ "	Portagomma	60°C
VERSION WITH DOUBLE SUCTION SINGLE INJECTOR						
10.4877.00	840	2 - 8	0,5 - 10	Gir. $\frac{3}{4}$ "	Portagomma	60°C

7.3

Low pressure foam dispenser station From 2 to 8 Bar Compressed air from 3 to 10 Bar max



Single suction



Double suction

Foam Air System is a small high performance foam dispenser. The **Foam Air System** uses just mains water and compressed air.

It generates **very dense clinging foam**, making it ideal for cleaning vertical surfaces and ceilings, with low detergent consumption.

Thanks to the complete absence of vaporisation, it can also be used in complete safety with very alkaline detergent foam.

Foaming:

Minimum 2 Bars in absolute safety without vaporisation;

Water:

From 2 to 8 Bars (normally mains pressure is between 2 and 4Bars);

Air:

From 3 to 10 Bars (the foam becomes denser as air pressure increases);

Water flow:

250 l/h (mean value);

Working temperature:

With detergent foam, use of water at room temperature is recommended. However, water at a temperature of not more than 50°C can be used;

Surface treated:

About 25 m per minute;

Dimensions:

150x125x50 mm (L x H x P);

Box weight:

8 Kg;

Material box:

Stainless steel AISI/304;

Venturi System:

Stainless steel AISI/316;

Product aspirated:

From 0,1% to 10%;

Backflow valve;

Use mains water only;

Flow rate (l/h)	Flow rate (l/h)	Flow rate (l/h)	Flow rate (l/h)	Flow rate (l/h)
-	No flow	No flow	No flow	No flow
0,300	0,81	0,25400	0,81	0,25400
0,700	0,834	0,20300	0,834	0,20300
1,100	0,838	0,19720	0,838	0,19720
1,500	0,83	0,18800	0,83	0,18800
1,900	0,835	0,18420	0,835	0,18420
2,300	0,835	0,18300	0,835	0,18300
2,700	0,830	0,17120	0,830	0,17120
3,100	0,835	0,16900	0,835	0,16900
4,000	0,84	1,12000	0,84	1,12000
5,000	0,840	1,10120	0,840	1,10120
7,000	0,832	1,12000	0,832	1,12000

Low pressure foam dispenser station From 2 to 8 Bar Compressed air from 3 to 10 Bar max

Available configurations

CODE	WATER FLOW-RATE (lt/h)	WATER PRESSURE (Bar)	AIR PRESSURE (Bar)	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP
10.4777.00	250	2 - 8	3 - 10	0,1 - 10	8	150x125x50	50°C
VERSION WITH DOUBLE SUCTION SINGLE INJECTOR							
10.4778.00	250	2 - 8	3 - 10	0,1 - 10	8	150x125x50	50°C

Technical features

- Stainless steel lance 400mm complete of rubber handle and ball valve
- (On demand it is possible to use lance with different lenght to arrive to different heights)
- Antisport hose L= 20 mt
- Back flow safety valve
- Pressure gauge
- N. 01 polithene hose Ø 4x6 L= 2 mt with automatic fitting ¼ " M
- S/s special Aisi/316 fitting for microperforated insertrs
- Microperforated and colorful inserts kit to determinate the percentage of product aspirated
- N. 01 detergent suction hose L=1,5 mt complete of filter

Optional accessories



S/s wall holder for hose
Sec. 9.17 - Cod. 10.1335.00

7.4



Single suction



Double suction

Low pressure foam dispenser station From 2 to 8 Bar Compressed air from 3 to 10 Bar max

Foam & Wash B.P. is a small high performance foam dispenser. **Foam & Wash B.P.** uses just mains water and compressed air. It generates a **very dense clinging foam**, making it ideal for cleaning vertical surfaces and ceilings, with low detergent consumption. Thanks to the complete absence of vaporisation, it can also be used in complete safety with very alkaline detergent foam.

Foaming:

Minimum 2 Bars in absolute safety without vaporisation;

Rinsing:

With 3 Bars of pressure, water consumption about 35 lt/min;

Water:

From 2 to 8 Bars (normally mains pressure is between 2 and 4 bars);

Air:

From 3 to 10 Bars (the foam becomes denser as air pressure increases);

Water flow:

250 l/h (mean value);

Working temperature:

With detergent foam, use of water at room temperature is recommended. However, water at a temperature of not more than 50°C can be used;

Surface treated:

About 25 m per minute;

Dimensions:

195x185x55 mm (L x H x P);

Weight box:

4.5Kg;

Box material:

Stainless steel AISI/304;

Venturi System:

Stainless steel AISI/316;

Product aspirated:

From 0,1% to 10%;

Backflow valve;

Use mains water only.

Q	Q 100% Lit	Q 100% Lit	Q 100% Lit	Color
-	No Nozzle	No Nozzle	No Nozzle	Transparent Clear
0,300	0,300	0,300	0,300	Nozzle Pink
0,400	0,400	0,400	0,400	Nozzle Purple
0,500	0,500	0,500	0,500	Nozzle Blue
0,600	0,600	0,600	0,600	Nozzle Yellow
0,700	0,700	0,700	0,700	Nozzle Brown
0,800	0,800	0,800	0,800	Nozzle Orange
0,900	0,900	0,900	0,900	Nozzle Green
1,000	1,000	1,000	1,000	Nozzle Tan
1,100	1,100	1,100	1,100	Nozzle Blue
1,200	1,200	1,200	1,200	Nozzle White
1,300	1,300	1,300	1,300	Nozzle Red

Low pressure foam dispenser station From 2 to 8 Bar Compressed air from 3 to 10 Bar max

7.4

Available configurations

CODE	WATER FLOW-RATE (lt/h)	WATER PRESSURE (Bar)	AIR PRESSURE (Bar)	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP
10.2905.00	250	2 - 8	3 - 10	0,1 - 10	4,5	195 x 185 x 55	50°C
VERSION WITH DOUBLE SUCTION SINGLE INJECTOR							
10.2906.00	250	2 - 8	3 - 10	0,1 - 10	4,5	195 x 185 x 55	50°C

Technical features

- S/s rotating fittings 1/2" MF
- B.P. rubber blue hose with ball valve
- Full Cone Nozzle for rinsing
- Flat Spray Nozzle for rinsing
- Foam Lance

- S/s special Aisi/316 fitting for microperforated inserts
- Microperforated and colorful inserts kit to determine the percentage of product aspirated
- N. 01/02 detergent suction hose L=1,5 mt complete of filter

Supplied accessories



S/s foam lance cm 30 complete of nozzle and s/s male quick coupling
Sec. 9.8 - Cod. 10.0995.00



Ball valve with s/s quick coupling



S/s nozzle for rinsing
(Fan jet)



S/s wall holder for hose
Sec 9.17 - Cod. 10.1335.00



S/s nozzle for rinsing
(Straight jet)



L.P. Hose 20 mt
with fittings 1/2" F.
Sec. 9.10

Optional

#	8 inch dia 8 1/2 inch dia	8 inch dia 8 1/2 inch dia	img	color color
1	No hole	No forage		Transparent Clear
2, 305	0, 81	0, 25408		Pink Pink
4, 395	0, 834	0, 25348		Purple Purple
13	0, 838	0, 25128		Blue Blue
1, 135	0, 81	0, 18808		Yellow Yellow
1, 385	0, 823	0, 18418		Brown Brown
1, 405	0, 825	0, 17348		Orange Orange
1, 755	0, 830	0, 71128		Green Green
1, 585	0, 835	0, 89348		Bronze Bronze
4, 065	0, 84	1, 8308		Blue Blue
1, 585	0, 843	1, 91128		White White
1, 385	0, 832	1, 3308		Red Red

from 3 Bar to 10 Bar.

Medium pressure foam dispenser from 10 to 50 bar Compressed air from 3 to 10 Bar max

7.5

Available configurations

CODE	WATER FLOW-RATE (lt/h)	WATER PRESSURE (Bar)	IN-LET QUICK COUPLING	OUT-LET QUICK COUPLING	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP
10.3111.00	10 - 50	3 - 10	ROT. COUPL. M/F S/S	-	0,1 - 10	4	250 x 200 x 95	95 °C
10.3120.00	10 - 50	3 - 10	ROT. COUPL. M/F S/S	COUPLE M/F S/S SUT	0,1 - 10	4	250 x 200 x 95	95 °C
DOUBLE SUCTION VERSION - SINGLE INJECTOR								
10.3121.00	10 - 50	3 - 10	ROT. COUPL. M/F S/S	-	0,1 - 10	4	250 x 200 x 95	95 °C
10.3122.00	10 - 50	3 - 10	ROT. COUPL. M/F S/S	COUPLE M/F S/S SUT	0,1 - 10	4	250 x 200 x 95	95 °C

Technical features

- S/s rotating fittings 1/2" MF
- Couple of quick coupling (Only Cod. 15740/S and Cod. 15740/S2)
- Backflow safety valve
- S/s special Aisi/316 fitting for microperforated insertrs
- N. 01 Microperforated and colorful inserts kit to determinate the percentage of product aspirated
- N. 01/02 Detergent suction hose L=1,5 mt complete of filter

Supplied accessories



FOODJET hose L= 20mt. S/s
Crimped 1/2" female
Sec. 9.10 - Cod. 10.1082.00



H.P. gun complete of swivel
Sec. 9.9 - Cod. 40.2039.00



S/s automatic hose reel
(Without hose)
Sec. 9.1 - Cod. 10.5077.00



S/s foam lance cm 30 complete of
nozzle and s/s male quick coupling
Sec. 9.8 - Cod. 10.0995.00



S/s wall holder for hose
Sec. 9.17 - Cod. 10.1335.00

7.5.1



Medium pressure foam dispenser from 10 to 50 bar Compressed air from 3 to 10 Bar max

F&W Compact is a very compact and extremely reliable foam dispenser made of **AISI/316L** stainless steel compatible with most chemicals in the industrial/food sector, used with high-pressure systems (**Max. 50 bar**).

With the addition of compressed air in combination with the special lance, a highly effective foam effect is achieved with minimal detergent use, placing this equipment at the top of its category in this pressure range.

Water flow rate:

From 10 to 30 Lt min with pressure from 10 to 50 Bar

Surface Treated

70/80 Mq c.a.

Available configurations

CODE	WATER FLOW-RATE (lt/h)	WATER PRESSURE (Bar)	IN-LET QUICK COUPLING	OUT-LET QUICK COUPLING	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP
10.4974.00	10 - 50	3 - 10	SWI. FITT. M/F INOX	-	0,1 - 10	1,5	120x154x80	95 °C
10.5530.00	10 - 50	3 - 10	MALE INOX	COUPLE M/F S/S SUT	0,1 - 10	1,5	120x210x80	95 °C
DOUBLE SUCTION VERSION - SINGLE INJECTOR								
10.4975.00	10 - 50	3 - 10	SWI. FITT. M/F INOX	-	0,1 - 10	2	200x154x80	95 °C
10.5531.00	10 - 50	3 - 10	MALE INOX	COUPLE M/F INOX SUT	0,1 - 10	2	200x210x80	95 °C

Included equipment

- 1/2" MF Swivel Connector in Stainless Steel
- Quick coupling MP (only on indicated codes)
- Water Disconnecter
- Special Aisi/316 stainless steel fitting for micro-perforated inserts
- N. 01 Microperforated and colorful inserts kit to determinate the percentage of product aspirated
- N. 01/02 Detergent suction hose L=1,5 mt complete of filter

Medium pressure foam dispenser from 10 to 50 bar Compressed air from 3 to 10 Bar max

7.5.1

Supplied accessories



Gun H.P. with swivel
Sec. 9.9 - Cod. 40.2039.00



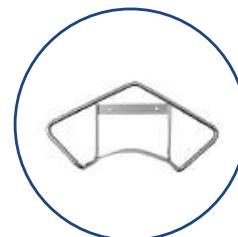
S/S Foam Lance cm 30
with nozzle and SUT stainless steel male
coupling **Sec. 9.8 - Cod. 10.0995.00**



20 Mt Foodjet 1/2" hose
Sec. 9.10 - Cod. 10.1082.00



S/S Automatic hose reel
Sec. 9.1 - Cod. 10.5077.00
ø 0,45720 mm



Wall holder for Foodjet hoses
Sec. 9.17 - Cod. 10.1335.00

Dosage regulator kit



-
non forato
Clear



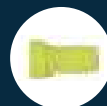
0.30%
ø 0,25400 mm
Pink



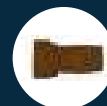
0.70%
ø 0,35560 mm
Purple



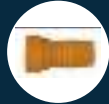
1.00%
ø 0,45720 mm
Aqua



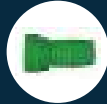
1.25%
ø 0,50800 mm
Yellow



1.50%
ø 0,58420 mm
Brown



2.00%
ø 0,63500 mm
Orange



2.75%
ø 0,71120 mm
Green



3.50%
ø 0,88900 mm
Tan



4.60%
ø 1,01600 mm
Blue



5.30%
ø 1,09220 mm
White



7.80%
ø 1,32080 mm
Red

Medium pressure foam dispenser station From 50 to 100 Bar Compressed air from 3 to 10 Bar max



A **highly effective foam effect** with **minimum detergent consumption** can be obtained with the addition of compressed air in combination with the foam lance.

About 70 m per minute.

89

Medium pressure foam dispenser station From 50 to 100 Bar Compressed air from 3 to 10 Bar max

7.6

Available configurations

CODE	WATER FLOW-RATE (lt/h)	WATER PRESSURE (Bar)	IN-LET QUICK COUPLING	OUT-LET QUICK COUPLING	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP
10.3650.00	50 - 100	3 - 10	-	-	0,1 - 10	4	225 x 175 x 105	95 °C
10.3651.00	50 - 100	3 - 10	S/s male	S/s female	0,1 - 10	4	225 x 175 x 105	95 °C
DOUBLE SUCTION VERSION - SINGLE INJECTOR								
10.3652.00	50 - 100	3 - 10	-	-	0,1 - 10	4	225 x 175 x 105	95 °C
10.3653.00	50 - 100	3 - 10	S/s male	S/s female	0,1 - 10	4	225 x 175 x 105	95 °C

Included equipment

- Couple of quick couplings (Available without quick couplings)
- Backflow safety valve
- Stainless steel Dosage regulator
- N. 01 Microperforated and colorful inserts kit to determinate the percentage of product aspirated
- N. 01/02 Detergent suction hose L=1,5 mt complete of filter

Optional accessories



20 Mt. R2 3/8" H.P. hose, stain-resistant
Sec 9.10 - Cod. 10.1491.00 (R/X)
Sec 9.10 - Cod. 10.3474.00 (R/Z)



S/s rotating fitting 3/8"M/F
Sec. 9.9 - Cod. 10.1364.00



Automatic hose reel complete with 20 mt h.p hose R/2 3/8"
Sec. 9.1 - Cod. 10.5019.00 (R/X)
Sec. 9.1 - Cod. 10.5007.00 (R/Z)



30 cm stainless steel foam lance with nozzle and plug Ø14
Sec. 9.8 - Cod. 10.3540.00

R/X: Stainless steel press fitting pipe
R/Z: Galvanized press fitting pipe

7.6.1



Medium pressure foam dispenser station From 50 to 100 Bar Compressed air from 3 to 10 Bar max

FS1 Air Compact is a very compact and extremely reliable foam dispenser made of **AISI/316L** stainless steel compatible with most chemicals in the industrial/food sector, used with high-pressure systems (**Max. 100 bar**).

With the addition of compressed air in combination with the special lance, a highly effective foam effect is achieved with minimal detergent use.

Water flow rate

From 10 to 30 Lt min with pressure from 50 to 100 Bar

Surface Treated

70/80 Mq c.a.

Available configurations

CODE	WATER FLOW-RATE (lt/h)	WATER PRESSURE (Bar)	IN-LET QUICK COUPLING	OUT-LET QUICK COUPLING	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP
10.5588.00	50 - 100	3 - 10	SWI. FITT. M/F INOX	-	0,1 - 10	1,5	120x143x80	95 °C
10.5590.00	50 - 100	3 - 10	Male Inox	Couple M/F INOX A.P.	0,1 - 10	1,5	120x192x80	95 °C
DOUBLE SUCTION VERSION - SINGLE INJECTOR								
10.5589.00	50 - 100	3 - 10	SWI. FITT. M/F INOX	-	0,1 - 10	2	200x143x80	95 °C
10.5591.00	50 - 100	3 - 10	Male Inox	Couple M/F INOX A.P.	0,1 - 10	2	200x192x80	95 °C

Included equipment

- Stainless Steel 3/8" M/F Swivel Connector
- Quick coupling HP (only on indicated codes)
- Water Disconnecter
- Metering adjustment
- N. 01 Microperforated and colorful inserts kit to determinate the percentage of product aspirated
- N. 01/02 Detergent suction hose L=1,5 mt complete of filter

Medium pressure foam dispenser station From 50 to 100 Bar Compressed air from 3 to 10 Bar max

7.6.1

Optional accessories



Extraction gun 014
Sez. 9.9 - Cod.10.1364.00



Stainless steel foam lance 30 cm -
with nozzle and plug 014
Sez 9.8 - Cod. 10.3540.00



Hose H.P. R/2 3/8" 20 mt. Stain-resistant
Sez 9.10 - Cod. 10.1491.00 (R/X)
Sez 9.10 - Cod. 10.3474.00 (R/Z)



Automatic stainless steel hose reel
complete with 20 cm hose H.P. R/2 3/8"
Sez. 9.1 - Cod. 10.5019.00 (R/X)
Sez. 9.1 - Cod. 10.5007.00 (R/Z)

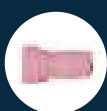
R/X: Stainless steel press fitting pipe

R/Z: Galvanized press fitting pipe

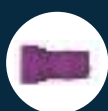
Dosage regulator kit



non forato
Clear



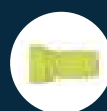
0,30%
ø 0,25400 mm
Pink



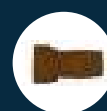
0,70%
ø 0,35560 mm
Purple



1,00%
ø 0,45720 mm
Aqua



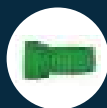
1,25%
ø 0,50800 mm
Yellow



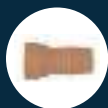
1,50%
ø 0,58420 mm
Brown



2,00%
ø 0,63500 mm
Orange



2,75%
ø 0,71120 mm
Green



3,50%
ø 0,88900 mm
Tan



4,60%
ø 1,01600 mm
Blue



5,30%
ø 1,09220 mm
White



7,80%
ø 1,32080 mm
Red

WARNING: THE INDICATED PERCENTAGES WERE DETERMINED WITH A SPECIFIC WEIGHT OF (1) AND MAY THEREFORE VARY DEPENDING ON THE DENSITY OF THE PRODUCTS USED

7.7



Single suction



Double suction

High pressure foam dispenser station from 100 to 200 Bar

Foam System 1 is a small **high pressure foam dispenser**. Suitable for all high pressure washing machines (**200 Bars max**).

Combined with the foam lance, it is extremely economical, with minimal use of detergent.

Water flow:

From ~11 l/min to ~ 15 l/min with pressure of from 80 to 150 Bars (mean value);

Working pressure:

From 100 to 200 Bars max;

Working temperature:

95 °C Max;

Dimensions:

245 x 175x 105 mm (L x H x P);

Weight box:

4 Kg;

Material box:

Stainless steel AISI/304;

Venturi system:

Stainless steel AISI/316;

Product aspirated:

From 0,1% to 10%;

Surface treated:

About 70 m for minute

l	8.000 Lit. 8.000 Lit.	8.000 Lit. 8.000 Lit.	lit	lit
-	NO ROSE	NO ROSE		transparent Clear
0,300	0,81	0,25408		ROSE Pink
0,700	0,830	0,25508		ROSE Purple
1,100	0,830	0,25508		ROSE Blue
1,500	0,81	0,25408		ROSE Yellow
1,900	0,830	0,25508		ROSE Brown
2,300	0,830	0,25508		ROSE Orange
2,700	0,830	0,25508		ROSE Green
3,100	0,830	0,25508		ROSE Tan
3,500	0,81	0,25408		ROSE Blue
3,900	0,830	0,25508		ROSE White
4,300	0,830	0,25508		ROSE Red

High pressure foam dispenser station from 100 to 200 Bar

7.7

Available configurations

CODE	WATER FLOW-RATE (lt/h)	WATER PRESSURE (Bar)	IN-LET QUICK COUPLING	OUT-LET QUICK COUPLING	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP
10.3639.00	100 - 200	-	-	-	0,1 - 10	4	225 x 175 x 105	95 °C
10.3647.00	100 - 200	-	S/s male	S/s female	0,1 - 10	4	225 x 175 x 105	95 °C
DOUBLE SUCTION VERSION - SINGLE INJECTOR								
10.3648.00	100 - 200	-	-	-	0,1 - 10	4	225 x 175 x 105	95 °C
10.3649.00	100 - 200	-	S/s male	S/s female	0,1 - 10	4	225 x 175 x 105	95 °C

Included equipment

- Couple of quick couplings (Available without quick couplings)
- S/s special Aisi/316 fitting for microperforated inserts
- N. 01 Microperforated and colorful inserts kit to determinate the percentage of product aspirated
- N. 01/02 Detergent suction hose L=1,5 mt complete of filter

Optional accessories



S/s foam lance cm 50 with nozzle and pin Ø14
Sec. 9.8 - Cod. 10.2218.00



H.p. hose R2 " L= 15 or 20 mt.
Sec 9.10 - Cod. 10.3474.00 R/Z
Cod. 10.1491.00 - R/X



H.p. gun with coupling Ø 14
Sec. 9.9 - Cod. 10.1364.00



Automatic stainless steel hose reel complete with 20 cm hose H.P. R/2 3/8"
Sec. 9.1 - Cod. 10.5007.00 (R/Z)
Sec. 9.1 - Cod. 10.5019.00 (R/X)

R/X: Stainless steel press fitting pipe
R/Z: Galvanized press fitting pipe

High pressure foam dispenser station from 100 to 200 Bar

7.7.1



FS1 Compact is a very compact and extremely reliable foam dispenser made of **AISI/316L** stainless steel compatible with most chemicals in the industrial/food sector, used with high-pressure systems (**Max. 200 bar**). Use in combination with a special foam lance, allows maximum results with minimum detergent.

Water flow rate

From 10 to 30 Lt min with pressure from 100 to 200 Bar

Surface Treated

70/80 Mq c.a.

Available configurations

CODE	WATER FLOW-RATE (lt/h)	WATER PRESSURE (Bar)	IN-LET QUICK COUPLING	OUT-LET QUICK COUPLING	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm	MAX. IN-LET TEMP
10.2976.00	100 - 200	-	SWI. FITT. M/F INOX	-	0,1 - 10	1,5	120x143x80	95 °C
10.5586.00	100 - 200	-	Male Inox	Couple M/F INOX A.P	0,1 - 10	1,5	120 x 192 x 80	95 °C
DOUBLE SUCTION VERSION - SINGLE INJECTOR								
10.4977.00	100 - 200	-	SWI. FITT. M/F INOX	-	0,1 - 10	2	200 x 143 x 80	95 °C
10.5587.00	100 - 200	-	Male Inox	Couple M/F INOX A.P	0,1 - 10	2	200 x 192 x 80	95 °C

Included equipment

- Swivel M/F 3/8"
- Quick coupling HP (only on indicated codes)
- S/s Special AISI/316 fitting for microperforated insert
- N. 01 Microperforated and colorful inserts kit to determinate the percentage of product aspirated
- N. 01/02 Detergent suction hose L=1,5 mt complete of filter

High pressure foam dispenser station from 100 to 200 Bar

7.7.1

Optional accessories



Extraction gun 014
Sec. 9.9 - Cod.10.1364.00



50 cm Stainless steel foam lance with nozzle and connector 014
Sec. 9.8 - Cod. 10.2218.00



Hose H.P. R/2 3/8" 20 mt. Stain-resistant
Sec. 9.10 - Cod. 10.3474.00 (P/ZINC)
Sec. 9.10 - Cod. 10.1491.00 (P/INOX)

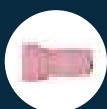


Automatic stainless steel hose reel complete with 20 cm hose H.P. R/2 3/8"
Sec. 9.1 - Cod. 10.5007.00 (P/ZINC)
Sec. 9.1 - Cod. 10.5019.00 (P/INOX)

Dosage regulator kit



- non forato
Clear



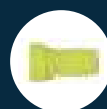
0.30%
ø 0,25400 mm
Pink



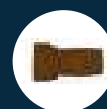
0.70%
ø 0,35560 mm
Purple



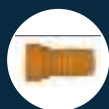
1.00%
ø 0,45720 mm
Aqua



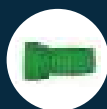
1.25%
ø 0,50800 mm
Yellow



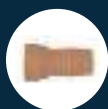
1.50%
ø 0,58420 mm
Brown



2.00%
ø 0,63500 mm
Orange



2.75%
ø 0,71120 mm
Green



3.50%
ø 0,88900 mm
Tan



4.60%
ø 1,01600 mm
Blue



5.30%
ø 1,09220 mm
With



7.80%
ø 1,32080 mm
Red

Wheeled foam dispenser station high and medium pressure

7.8



Wheeled station equipped with Foam System 1 Air, or Foam System 1, or Foam & Wash M.P.

Stainless steel trolley

Foam dispenser station in the required version

Stainless steel manual hose reel

Antispot Hose L= 20 mt

H.p. gun complete of swivel

Antispot hose 2000 mm complete of S/s male quick coupling (connection to the pipe line)

Foam lance 50 cm complete of nozzle and pin

S/s washing lance 90 cm complete of nozzle and pin

Antispot rear wheels Ø 100

S/s Pivoting front wheels Ø 100 with brake

Available configurations

CODE	DOSING STATION	WORKING PRESSURE (Bar)	USE	HOSE REEL	HOSE	WASHING LANCE WITH PIN	FOAM LANCE WITH PIN	EX-TRACTION GUN	WEI-GHT (Kg)	DIMENSIONS L x H x P (mm)
10.4829.00	Foam System 1	100 ~ 200	A.P.	Manual	R2 3/8" mt 20	INOX cm. 90	INOX cm. 50	SI	40	751x1085x585
10.4831.00	Foam System 1 Air	50 ~ 100	A.P.	Manual	R2 3/8" mt 20	INOX cm. 90	INOX cm. 40	SI	40	751x1085x585
10.4833.00	Foam & Wash M.P.	10 ~ 50	M.P.	Manual	Foodjet 1/2" mt 20	INOX cm. 90	INOX cm. 30	SI	42	751x1085x585
DOUBLE SUCTION VERSION - SINGLE INJECTOR										
10.4830.00	Foam System 1	100 ~ 200	A.P.	Manual	R2 3/8" mt 20	INOX cm. 90	INOX cm. 50	SI	40	751x1085x585
10.4832.00	Foam System 1 Air	50 ~ 100	A.P.	Manual	R2 3/8" mt 20	INOX cm. 90	INOX cm. 40	SI	40	751x1085x585
10.4834.00	Foam & Wash M.P.	10 ~ 50	M.P.	Manual	Foodjet 1/2" mt 20	INOX Z cm. 90 con innesto	INOX cm. 30	SI	42	95 °C

7.9



Detergent trolley with Station Foam Dosage Low Pressure from 2 to 8 Bar

Trolley ideal for daily sanitizing operations in the food industry and beyond. It ensures excellent foam delivery, which adheres to the treated surface, making the rinsing phase much easier – using only water pressure and compressed air.

The trolley includes:

- Stainless steel tubular frame
- Dosing station in the selected version
- Stainless steel hose holder
- 20 m anti-stain hose
- 3 m anti-stain hose with stainless steel male quick coupling (for connection to the pipeline)
- Rear anti-stain wheels Ø 100
- Front anti-stain swivel stainless steel wheels Ø 100 with brake

FOAMS AND RINSES USING ONLY WA- TER SUPPLY PRESSURE AND COM- PRESSED AIR

Available configurations

CODE	DOSING STATION	HOSE	TOTAL FOAMING FLOW-RATE (lt/min)	WATER PRESSURE (Bar)	ASPIRATED PRODUCT PERCENTAGE (%)	WEIGHT (Kg)	DIMENSIONS (LxHxP)	MAX. IN-LET TEMPERATURE
10.4803.00	Foam Air System	B.P. 1/2 " mt. 20	250	2 - 8	0,1 - 10	25	751x1085x585	50 °C
10.4804.00	Foam&Wash B.P (ByPass)	B.P. 1/2 " mt. 20	250	2 - 8	0,1 - 10	25	751x1085x585	50 °C
DOUBLE SUCTION VERSION								
10.4805.00	Foam Air System	B.P. 1/2 " mt. 20	250	2 - 8	0,1 - 10	25	751x1085x585	50 °C
10.4806.00	Foam&Wash B.P (ByPass)	B.P. 1/2 " mt. 20	250	2 - 8	0,1 - 10	25	751x1085x585	50 °C

7.10



Single suction



Double suction

Foam-Detergent Injector with colored inserts high pressure from 100 to 200 Bar

Foam-detergent stainless steel injector available with various types of couplings.

Equipped with:

- Couple of quick couplings
(Available version without couplings)
- Special Aisi / 316 stainless steel fitting for micro-perforated inserts
- Micro-drilled and colored inserts kit to determine the percentage of aspirated product
- N. 01 detergent suction hose 1,5 mt with filtero

Code	Ø Inlet (mm)	Ø Outlet (mm)	Insert	Aspirated Product
-	No hole	No forano		Transparent Clear
8,085	Ø, 81	Ø, 25408		Rosa Pink
8,195	Ø, 835	Ø, 25588		Purple Purple
10	Ø, 838	Ø, 25728		Azzurro Blue
1,185	Ø, 81	Ø, 18808		Giallo Yellow
1,185	Ø, 835	Ø, 18828		Marrone Brown
1,495	Ø, 835	Ø, 18788		Arancione Orange
1,755	Ø, 835	Ø, 18128		Verde Green
1,585	Ø, 835	Ø, 18088		Beige Tan
4,085	Ø, 84	1,82088		Blu Blue
5,185	Ø, 840	1,95128		Bianco White
7,085	Ø, 835	1,30088		Rosso Red

Available configurations

CODE	WATER PRESSURE (Bar)	IN-LET COUPLING	OUT-LET COUPLING	ASPIRATED PRODUCT PERCENTAGE (%)	MAX. IN-LET TEMPERATURE
10.4766.00	100 - 200	-	-	0,1 - 10	95 °C
10.3535.00	100 - 200	S/s male	Chromed female	0,1 - 10	95 °C
10.5030.00	100 - 200	S/s male	S/s female	0,1 - 10	95 °C
10.3654.00	10 - 50	S/s male SUT	S/s female SUT	0,1 - 10	95 °C
VERSION WITH DOUBLE SUCTION AND SINGLE INJECTOR					
10.5032.00	100 - 200	-	-	0,1 - 10	95 °C
10.5033.00	100 - 200	S/s male	Chromed female	0,1 - 10	95 °C
10.5031.00	100 - 200	S/s male	S/s female	0,1 - 10	95 °C
10.3655.00	10 - 50	S/s male SUT	S/s female SUT	0,1 - 10	95 °C

Detergent dosage regulator with Micro-drilled Colored Inserts

7.11

Detergent dosage regulator equipped with:

- Aisi / 316L stainless steel body with micro-drilled insert holder
- Micro-drilled and colored inserts kit to determine the percentage of aspirated product
- 1/8 "chromed fixing nut.

Chrome-plated hex nut 1/8"
Cod.140.2140.00



Stainless steel body AISI/316
Cod.20.0336.06

12 micro-perforated nozzle kit
Cod. 10.0218.00

3

Ø	Ø 0,001 in Ø 0,01 in	Ø 0,001 in Ø 0,01 in	Color	Color
0	Non forata	Non forata		Transparente Clear
0,100	0,10	0,25400		Red Pink
0,150	0,15	0,38100		Purple Purple
0,200	0,20	0,50800		Blue Blue
0,250	0,25	0,63500		Yellow Yellow
0,300	0,30	0,76200		Brown Brown
0,350	0,35	0,88900		Orange Orange
0,400	0,40	1,01600		Green Green
0,450	0,45	1,14300		Tan Tan
0,500	0,50	1,27000		Blue Blue
0,550	0,55	1,39700		White White
0,600	0,60	1,52400		Red Red

Available configurations

POS ITEM	CODE	DESCRIPTION	UN
1	40.2214.00	Chrome-plated hex nut 1/8"	1
2	20.0336.06	Stainless steel body AISI/316	1
3	10.0218.00	12 insert nozzle kit with detergent section Ø0 to Ø1,32	1

Wheeled detergent foam dispenser with pneumatic pump

7.12



Foam Spray is an excellent **detergent or disinfectant foam dispenser**.

The **total absence of vaporisation** also makes it suitable for use with chlorinated alkaline products.

It does not require electricity. It can be operated by simply filling the **25l tank** with water and adding about 2-3% of detergent, connecting it to the compressed air and opening the supplied lance.

After a few seconds, the time required to normalise the liquid along the **10m delivery hose**, a **fine dense foam with high clinging power** is generated, ideal for economical cleaning of vertical walls and ceilings, with very low detergent consumption. In addition, it can be used with disinfectants by simply turning the air valve to the "Disinfection" position, replacing the nozzle supplied and opening the lance.

Pneumatic pump: 7 Bar max;
 Dry vacuuming capacity: 3 mt;
 Water flow: 5 Lt/min max;
 Water flow to the lance: 2 Lt/min a 3 Bar;
 Air pressure required: From 2 to 7 Bar Max;
 Working temperature: 60 °C Max;
 Dimensions: 500 x 1020 x 410 mm (L x H x P);
 Empty weight: 12 Kg;
 Surface treated: About 50 m per minute;
 Tank capacity: 25 Lt;
 Chassis: Painted or in stainless steel.

Available configurations

CODE	TROLLEY	MAX. PRESS. (Bar)	MAX FLOW RATE (lt/min)	FOAM CONSUMPTION AT 5 BAR (lt/min)	DISINFECT. CONS. AT 5 BAR (lt/min)	TANK CAPACITY	REQUIRED AIR PRESSURE (Bar)	MAX. IN-LET WATER TEMP.	WEI-GHT (Kg)	DIMENSIONS (LxHxP)
10.4891.00	S/Steel	3 - 10	5	1	1,25	25	2 - 7	60°C	12	500x1020x410

Equipment included

- Air valve (Foam/Disinfectant)
- Air pressure regulator
- Air pressure manometer
- N. 01 Lance complete of spiral hose L=10 mt.
- N. 01 Air spiral hose Ø 8 L= mt. 10

7.13



Wheeled stainless steel foamer

Professional foamers made of stainless steel to avoid the problems deriving from normal corrosion of iron tanks or to resist particularly aggressive chemical products. However, please note that 304 series stainless steel does not have a good degree of resistance against substances containing chlorine, therefore it is not recommended to insert liquids containing this substance inside the tank. The tanks are subjected to an electro-chemical pickling and polishing treatment to ensure better resistance to corrosion. The management of these foaming nebulizers is very flexible, as they are equipped with a hose and nozzle with a gun-operated dispenser, it is sufficient to fill the tank with the product to be distributed and pressurize with compressed air.

Steel type: Aisi 304/316

Tank capacity: 24 Lt or 50 Lt

Maximum operating pressure: 8 Bar Max

Empty weight: 16 Kg or 26 Kg

Trolley structure: Stainless steel

Wheels: Ø 125 mm or Ø 200x

Available configurations

CODE	STRUCTURE	WHEELS	TANK CAPACITY (lt)	MAX. WORKING PRESSURE (Bar)	WEIGHT (Kg)	PACKAGE DIMENSION LxHxP (mm)
40.5125.00	Inox Aisi 304	Ø 125	24	8	12	Ø 240 x 800 mm
40.2829.00	Inox Aisi 304	Ø 200	50	8	26	Ø 300 x 950 mm

Technical features

- Air safety valve
- Pressure gauge 0-12 Bar
- N. 01 Delivery lance with 10 mt. of tube
- Air inlet cock
- Liquid outlet tap
- Mixing tap

7.14

Gruppo di dosaggio centralizzato per il trasferimento di detergenti e sanitizzanti



CDP is a very reliable **system for centralizing the transfer of detergents and / or disinfectants**, through suitable pipes directly to the operating points thus avoiding the presence in areas sensitive drums, susceptible to breakage and therefore possible pollution.

The system is installed inside a prepared stainless steel box for wall mounting. It consists of:

A pneumatic dosing pump complete with all controls necessary for the good management of the system, capable of delivering up to at **10 liters / min** and through the suction pipe with relative Bottom valve with filter, directly picks up the product pure and then transfer it at a pressure of about **1-1.5 bar** at **"Foam & Wash"** dosing stations that will take care of them aimed at guaranteeing the exact dosage percentages.

Available configurations

CODE	ADJUSTABLE PRESSURE	FLOW lt/min	VOLTAGE (Volt)	MAX IN-LET TEMPERATURE	WEIGHT (Kg)	DIMENSIONS LxHxP (mm)
10.2641.00	0 - 6 Bar	10	24	80 °C - 176 °F	15	300x388x206

Technical features

- Inlet fitting Ø 8
- Outlet fitting Ø 12
- Suction fitting Ø 12

DISINFECTION

The background features a series of overlapping, wavy lines in various shades of blue and white. A prominent white grid pattern is visible in the center, partially obscured by the blue waves. The overall aesthetic is clean and modern, with a focus on geometric and organic shapes.

Automatic systems for the dispensing of Disinfectant and Disinfestant solutions

THE FOLLOWING BENEFITS CAN BE OBTAINED THROUGH THESE NEBULIZATION SYSTEMS:

- HYDRATION
- COOLING DOWN
- CHEMICAL PRODUCTS DISTRIBUTION
- DUST REMOVAL
- AIR QUALITY
- SMELLS ELIMINATION
- PREVENTION OF ELECTROSTATIC CHARGES
- LOCALIZED SANITIZATION OF TAPES
- LUBRICATION OF CONVEYOR BELTS

Technical features

AGRICULTURE

Maintenance of humidity, Distribution of products, Micro-irrigation.

FARMS

Improvement of the stable environment, Maintenance and control of the micro-climate, Cooling during the summer season, Odor reduction, Insect control, General animal protection.

CIVIL ENVIRONMENTS

Parks, campsites, swimming pools, theaters, gardens, flower beds, residences, hospitals, bars, villages, tourism, hotels, ports, restaurants, beaches, spas, schools, farm holidays, car parks, discos, nursing homes, underground docks, wellness centers.

Removal of insects, Micro-climate maintenance, Refreshing, Aroma therapy, Room deodorizing, Micro-irrigation, Air cooling at the entrance to the outdoor units, air conditioners (Energy Saving).

INDUSTRIAL ENVIRONMENTS

Iron and steel industry, Textiles, Ceramics, Cements, Cold rooms, Purification, Paper, Wood, Marble, Food processing, Fish, Construction, Electronics, Electrical engineering, Supermarket counters, Foundries, Plastic, Molding, Food, Cosmetics.

Moisture maintenance, Air quality, Dust abatement, Odor abatement, Ambient cooling, Hydration, Micro-climate maintenance, Insect removal, Room deodorizing, Micro Irrigation, Electrostatic charge reduction, Air cooling at the entrance to the outdoor unit of air conditioners (Energy Saving).

Low pressure sanitizing agent sprayer Pressure from 2 to 8 Bar

8.1



Microspray is a small high performance sanitizing sprayer. Its stainless steel lance generates a special mist, making it **ideal for disinfecting vertical surfaces and ceilings, with low consumption of sanitizing agent.**

Water flow: 250 l/h (mean value);
 Water: From: 2 to 8 bars (normally mains pressure is between 2 and 4 bars);
 Working temperature: 50°C Max;
 Surface treated: About 25 m² per minute;
 Dimensions: 100x155x50 mm (L x H x P);
 Weight: 6 kg;
 Material box: Stainless steel AISI/304;
 Venturi system: Stainless steel AISI/316;
 Product aspirated: from 0,1% to 5%.

Wheeled version:

Stainless steel trolley;
 S/s Pivoting front wheels ø 100 with brake;
 Rear Wheels Ø 100mm.

Available configurations

CODE	FLOW-RATE (lt/min)	WATER PRESSURE (Bar)	ASPIRATED PRODUCT (%)	WEIGHT (Kg)	DIMENSIONS LxHxP (mm)	MAX. IN-LET WATER TEMPERATURE
10.4875.00	250	2 - 8	0,1 - 5	6	100x155x50	50°C
WHEELED VERSION Equipped with Mlicrospray dosing station						
10.4876.00	250	2 - 8	0,1 - 5	25	751x1085x585	50°C

Equipment included

- Stainless steel spray lance 600 mm complete of special nozzle
- Pvc gun resistant to impact and corrosion
- Antisport hose L= 15 mt
- N. 01 detergent suction hose L= 1,5 mt with filter
- Full screen printing illustration of the dosage in percentage
- Stainless steel hose holder
- Dosage regulator in Stainless steel with microperforated colorful inserts
- Microperforated colorful inserts kit to determinate the percentage of product aspirated

8.2



Sanitize all surfaces without wetting nor leaving residues

NanoSpray is a manual sanification system for objects and surfaces.

Nanospray produces a dry mist which allows effective treatments on any surface including electronic equipment, furniture, desks, cabinets, telephones, computers, floors, tiles and fabrics.

The pressure generated by the exclusive **silenced oil-free compressor** creates a particularly **effective nebulisation (20 µm)** through the dispensing gun, the micro-particles in suspension generated in fact, in contact with surfaces and objects, penetrate deeply guaranteeing an extremely effective disinfection, ensuring the elimination of microbes and viruses.

The nebulization, not requiring a successive drying step, allows a considerable saving in terms of liquid and time used for the operation. **Nanospray** is portable and extremely compact, making it easy to be used even in small spaces.

AREAS OF APPLICATION

- Office, Shops
- Medical, offices, dentists
- Recovery communities, retirement homes
- Nautical
- Banks, insurance companies

Technical features

- Compressor: 230 V – 0,75 Kw
- Air flow: 70 Lt/min
- Max Pressure: 3 Bar
- Sound level: 72 dB
- Liquid delivery: 7 Lt/h
- Average particle size: 20 µm
- Liquid tank: 1 Lt
- Empty weight: 9,5 Kg
- Pressure stabilizer
- 10 mt spiral hose

Available configurations

CODICE	DESCRIZIONE
40.2884.00	NanoSpray 230 Vca

Design and performance, to sanitize up to 600 cubic meters

8.3



Sanit Easy is an elegant and portable device with an attractive line complete with a **220 V silenced compressor** and it is suitable to sanitize environments up to 600 cubic meters in one hour. The great advantage of **SanitEasy** consist in having the nozzles fed with an under pressure liquid in order to mix air and liquid in an optimal way, creating a completely atomized jet that saturates the environment to be treated in a very short time without wetting and without leaving residues, thus inactivating viruses and bacteria from all treated surfaces.

Saniteasy is also equipped with a digital electronic timer that allows you to quickly manage dispensing times according to the volume of the rooms to be treated. **Sanit Easy** it is suitable for rooms up to 600 m³ with heights up to 3 meters

Why SanitEasy?



Programmable



Leaves no residues



Compact

Example of room sanitation in minutes:

25 m³ - 2,5 minutes

50 m³ - 5 minutes

200 m³ - 20 minutes

AREAS OF APPLICATION

- Offices, shops
- Medical offices, dentists
- Recovery communities, retirement homes
- Banks, insurance companies
- Restaurants, hotels

Technical features

- Material: Aisi/304 Stainless steel
- Power supply: 220 V
- Number of nozzles: 1
- Tank capacity: 5 Lt
- Delivery time: Adjustable
- Average particle size: 8 µm

- Jet length: 2,2,7 mt
- Height of nozzles from the ground: 500 mm
- Dimensions (LxHxP): 350x600x390 mm
- Power: 0,55 Kw
- Liquid consumption: 2,3 Lt/h
- Weight: 15 Kg

Available configurations

CODICE	DESCRIZIONE
10.3064.00	SanitEasy

8.4



Powerful and versatile, suitable for sanitizing up to 3000 cubic meters

The **Minispray** is a portable **sanitising system** for all environments.

Operating with compressed air the **Minispray** has very fine nozzles that when under pressure creates a very fine spray that saturates and sterilises the environment in a very short time without leaving residues behind.

Minispray is also equipped with an electronic battery programmer that allows you to programme the sterilising operation at specific times and according to the cubic volume of the rooms to be treated.

Minispray is suitable for environments at **2500-3000 mc/h even with heights of more than 10 meters.**

Example of room sanitation in minutes:

200 m³ - 5 minutes

500 m³ - 12 minutes

1000 m³ - 24 minutes

AREAS OF APPLICATION

- Offices, Shops
- Warehouses, Industries
- Communities, Retirement homes
- Swimming pools, Sports centres
- Restaurants

Available configurations

CODE	TANK CAPACITY (lt)	MAX TANK PRESSURE MAX (Bar)	N° OF NOZZLES	NOZZLES PRESS. (Bar)	JET. LENGTH (m)	AIR CONSUMPTION (lt/min)	LIQUID CONSUMPTION (lt/h)	WEIGHT (kg)	DIMENSIONS DxH (mm)	NOZZLES HEIGHT FROM THE GROUND
10.2414.00	9	4,9	2	2,5 ~ 4	2,7	70	4,6	7	Ø 220 x 950	950 mm

Technical features

- Tank capacity : 9 Lt
- Material Tank: Stainless steel
- Air working pressure of the tank: 4.9 Bar Max
- Air consumption: (See schedule)
- Nozzle pressure: from 2.5 to 4 Bar
- Liquid consumption: (See schedule)
- Number of nozzles: 2
- Jet length: ~ 2.7 mt

AIR FLOW RATE *1 (l/min)			LIQUID FLOW RATE *1 (l/h)			AVERAGE PARTICLE SIZE *2 (µm)		
2,5 Bar	3 Bar	4 Bar	2,5 Bar	3 Bar	4 Bar	2,5 Bar	3 Bar	4 Bar
30	35	45	2,3	2,5	2,6	9,6	8,5	7,6

*1 Data for nozzle *2 Measuring position 200 mm for center Nozzle

Powerful and versatile, suitable for sanitizing up to 3000 cubic meters

8.5



The **Minispray Compressor** is a **portable sanitising system** for all environments. Operating with compressed air the **Minispray Compressor** has very fine nozzles that when under pressure creates a very fine spray that saturates and sterilises the environment in a very short time without leaving residues behind.

Minispray Compressor is also equipped with an electronic battery programmer that allows you to programme the sterilising operation at specific times and according to the cubic volume of the rooms to be treated.

Minispray Compressor is suitable for environments at **2500-3000 mc/h** even with **heights of more than 10 meters**.

Example of room sanitation in minutes:

200 m³ - 5 minutes

500 m³ - 12 minutes

1000 m³ - 24 minutes

AREAS OF APPLICATION

- Offices, Shops
- Warehouses, Industries
- Communities, Retirement homes
- Swimming pools, Sports centres
- Restaurants

Available configurations

CODE	TANK CAPACITY (lt)	MAX. TANK PRESSURE (Bar)	N° OF NOZZLES	NOZZLES PRESS. (Bar)	JET LENGTH (m)	AIR CONSUMP. (lt/min)	LIQUID CONSUMP. (lt/h)	WEIGHT (kg)	TROLLEY DIMENSIONS DxDH (mm)	NOZZLES HEIGHT FROM THE GROUND
10.2435.00	9	4,9	2	2,5 ~ 4	2,7	70	4,6	7	700x475x1120	950 mm

Technical features

- Tank capacity : 9 Lt
- Material Tank: Stainless steel
- Air working pressure of the tank: 4.9 Bar Max
- Air consumption: (See schedule)
- Nozzle pressure: from 2.5 to 4 Bar
- Liquid consumption: (See schedule)
- Number of nozzles: 2
- Jet lenght: ~ 2.7 mt
- Nozzles Height: 950 mm

AIR FLOW RATE *1 (l/min)			LIQUID FLOW RATE *1 (l/h)			AVERAGE PARTICLE SIZE *2 (µm)		
2,5 Bar	3 Bar	4 Bar	2,5 Bar	3 Bar	4 Bar	2,5 Bar	3 Bar	4 Bar
30	35	45	2,3	2,5	2,6	9,6	8,5	7,6

*1 Data for Nozzle *2 Measuring position 200 mm for center Nozzle

Powerful and versatile, suitable for sanitizing up to 3000 cubic meters

8.6



The **Multispray** is a portable sanitising system for all environments. Operating with compressed air the **Multispray** has very fine nozzles that when under pressure creates a very fine spray that saturates and sterilises the environment in a very short time without leaving residues behind.

Multispray is also equipped with an electronic battery programmer that allows you to programme the sterilising operation at specific times and according to the cubic volume of the rooms to be treated.

Multispray is suitable for environments at 5000-6000 mc / h even with heights of more than 10 meters.

Example of room sanitation in minutes:

500 m³ - 6 minutes
1000 m³ - 12 minutes
2000 m³ - 24 minutes

Available configurations

CODE	TANK CAPACITY (lt)	MAX. TANK PRESSURE (Bar)	N° OF NOZZLES	NOZZLES PRESS. (Bar)	JET LENGTH (m)	AIR CONSUMP. (lt/min)	LIQUID CONSUMP. (lt/h)	WEIGHT (kg)	TROLLEY DIMENSIONS (mm)	NOZZLES HEIGHT FROM THE GROUND
10.2415.00	18	4,9	4	4-6	2,7	120 - 190	9,2 - 10,4	15,5	570x450x850	1,5 - 2,15

Technical features

- Tank capacity : 9 Lt
- Material Tank: Stainless steel
- Air working pressure of the tank: 4.9 Bar Max
- Air consumption: (See schedule)
- Nozzle pressure: from 2.5 to 4 Bar
- Liquid consumption: (See schedule)
- Number of nozzles: 2
- Jet lenght: ~ 2.7 mt
- Nozzles Height: 950 mm

AIR FLOW RATE *1 (l/min)			LIQUID FLOW RATE *1 (l/h)			AVERAGE PARTICLE SIZE*2 (µm)		
2,5 Bar	3 Bar	4 Bar	2,5 Bar	3 Bar	4 Bar	2,5 Bar	3 Bar	4 Bar
30	35	45	2,3	2,5	2,6	9,6	8,5	7,6

*1 Data for Nozzle *2 Measuring position 200 mm for center Nozzle

8.7



Automatic insect control product sprayer

ZanzStop is an automated spray unit with a nozzle system able to spray large areas with insecticides or insect repellents. The system is made of **top quality components** and the concentration of product to be sprayed can be regulated precisely.

The control module enables the spraying process to be automated.

The compact structure is made from steel and ABS, the control panel is accessible from the outside.

ZanzStop is very easy to use, once the area to be sprayed has been identified, a distribution system is constructed with a special PTFE hose, including every 3m a practical T-junction to which a microspray nozzle with non-drip system will be fitted.

ZanzStop is the only system allowing automatic control of spraying zones, each up to **132 mt long with a maximum of 44 nozzles for each exit**.

At this point the product to be distributed is inserted into the internal tank and the system can be started.

ZanzStop, at this point it is able to automatically carry out the entire distribution cycle.

On the control panel there is a practical connector for recharging the battery and a LED that indicates the charge level.

INSTALLED KITS	TREATED SURFACE
/	50 m ²
1	156 m ²
2	625 m ²
3	1250 m ²
4	2500 m ²

Technical features

- Electro pump : 12 V
- Pressure: 7 Bar Max
- Flow rate: 2,2 Lt/min Max
- Surface treatate: It depends by the q,ty of the nozzle mounted
- Programming: timed programming
- Dimensions: 395x265x503mm (L x H x P)
- Weight: 8,3 kg
- Materials: ABS+Steel
- Dosage: 100 ml of product in 5 Lt/H₂O
- Consumption: 0,05 Lt/min for each installed nozzle
- Installable nozzles: MAX. 44 (MAX Recomend: 32)

Automatic insect control product sprayer

8.7

Products codes

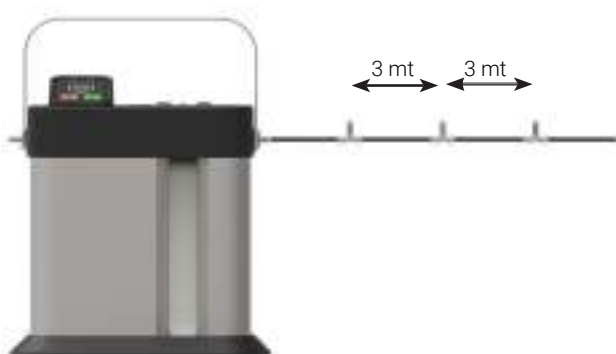
CODE	DESCRIPTION
10.0026.00	Zanz Stop 12 V Battery
10.6104.00	Zanz Stop 230 V.
10.0139.00	25 mt extension kit with 8 nozzles for ZanzStop
40.2822.00	Mosquito repellent product 1 lt

Optional accessories

CODE	DESCRIPTION
40.0138.00	Nebulizer nozzle with anti-drip valve
40.0135.00	Brass Nozzle holder Slip Lock
20.0140.18	PVDF Hose 1/4" of 25 mt

Areas of application

- Parks
- Camping
- Tourist Resorts
- Theatres
- Private and Public Garden
- Flowerbeds
- Residence
- Hospitals
- Nursery Homes
- Pools
- Spa
- Gardens
- Hotels
- Bars
- Restaurants
- Agritourisms
- Parkings
- Local sanitation of multi zone conveyors belts
- Lubrication of conveyor belt



8.8

Automatic insect control product sprayer



Insect Killer is an automated spray unit with a nozzle system able to spray large areas with insecticides or insect repellents. The system is made of top quality components and the concentration of product to be sprayed can be regulated precisely.

The control module enables the spraying process to be automated, with daily and weekly programmes. The compact structure is made from stainless steel and the control module is incorporated in an electrical panel with IP65 protection, accessible from the outside.

Insect Killer is very easy to use, once the area to be sprayed has been identified, a distribution system is constructed with a special PTFE hose, including every 1.5 m a practical T-junction to which a microspray nozzle with non-drip system will be fitted.

Insect Killer is the only system allowing automatic control of **two spraying zones**, each up to **120 m long with a maximum of 80 nozzles**.

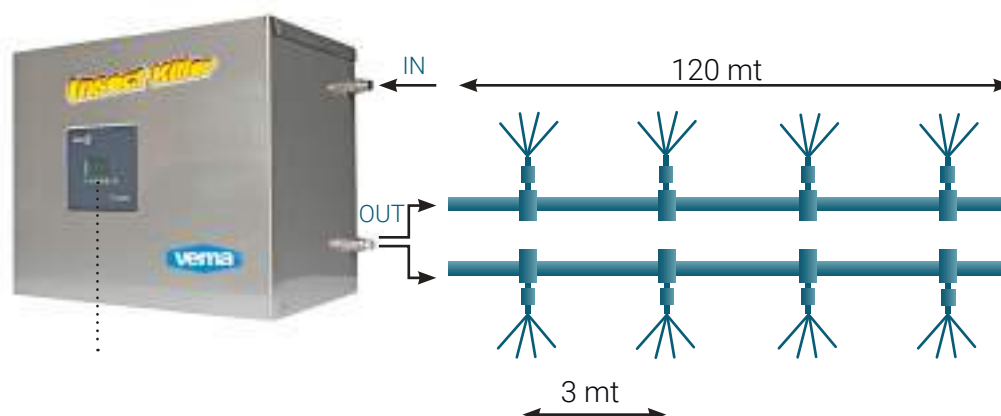
The spray zones can be programmed independently and may overlap, the system cannot control more than 80 nozzles at the same time, otherwise correct nebulisation of the product cannot be guaranteed.

The unit is then connected to the mains water supply and the outlet to the spray lines, the product to be sprayed is placed in the tank and the hours and days of operation are programmed. At this point, **Insect Killer**, is able to carry out the entire distribution cycle automatically.

Insect Killer can also be operated manually.

The control module display visualises the system's various operating phases and possible level alarms when the water or product runs out.

The latter are accompanied by an acoustic signal.



Automatic insect control product sprayer

8.8

Areas of application

Insect Killer is particularly useful in all open space:

Parks, Camping, Tourist Resorts, Theatres, Private and public gardens, Flowerbeds, Residences, Hospitals, Nursery homes, Pools, Spas, Gardens, Hotels, Bars, Restaurants, Agritourisms, Parkings, Local sanitation of multi zone conveyor belts, Lubrication of conveyor belts

It is important to respect the manufacturer's instructions for the particular product used.

IMPORTANT: some products can be sprayed only in places where there are no people.

Some repellent products can be used without difficulty in the presence of people and in combination with the jet of mist can create a physical barrier to the passage of insects.

For clarification or further information, contact your local dealer.

Available configurations

CODE	FLOW RATE (lt/min)	WATER PRESSURE (Bar)	ASPIRATED PRODUCT PERCENTAGE (%)	SPRAYING ZONES	MAX NUMBER OF NOZZLE EACH ZONE	MAX LENGTH PIPE ZONE (lt/min)
10.5255.00	4	7	0,5 - 2	2 x 120 mt	40 x 2= N°80	0,03

Technical features

- PLC with display LCD: Accessible from outside – IP 67 protection
- Electropump: 220 V
- Pressure: 9 Bar Max
- FloW rate: 4 Lt/min Max
- Dosing Pump: 220 V electronic type
- Aspirated product: from 0,5 % to 2 %
- Surface treated: It depends by the q.ty of the nozzle mounted
- Spraying zones: N. 2 independent programming
- Programming: weekly/daily
- Water lack control: Sounding and on the display
- Product lack control: Sounding and on the display
- Dimensions: 450x350x280 mm (L x H x P)
- Weight: 25 kg
- Material box: Stainless steel AISI/304.

Optional accessories

- | | |
|---|-----------------|
| • Microspray nozzle with anti-drip valve | Cod. 40.0138.00 |
| • Brass slip lock nozzle holder 3/8" Ø 9,52 | Cod. 40.6108.00 |
| • Hose PA12 Ø 3/8" Ø 9,52 al mt. | Cod. 00.6118.00 |
| • Male end-line cap Ø 9,52 | Cod. 40.6109.00 |
| • mt 25 PA12 hose kit -3/8" Ø 9,52 with 8 fittings and 8 ugelli | Cod. 10.6111.00 |

8.9



Wheeled stainless steel foam sprayer

Stainless steel nebulizer with 24-liter wheeled tank equipped with level indicator.

Stainless steel nebulizer suitable for the non-toxic nebulization of cleaning liquids, lubricating oils and the like at low density, for washing vehicles, disinfectants for agriculture, farming, gardening, etc.

Filled with the chosen liquid for 3/4 of their capacity and loaded with **air at 6-8 bar**, they work independently without any need for continuous connection to the compressed air network. It is supplied complete with hose and spray gun-operated dispensing lance and anti-backflow funnel.

Available configurations

CODE	STRUCTURE	TANK CAPACITY (lt)	MAX. WORKING PRESSURE (Bar)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm
40.4828.00	Inox	24	6 - 8	13	370x860x300

Technical features

- Type of steel: Aisi 304/316
- Tank capacity: 24 Lt
- Maximum working pressure: 10 Bar Max
- Security valve 10 Bar
- Lance len ght: 0,65 mt
- Hose le nght: 5 mt

Disinfection system for vehicles

8.10



Cod.10.4909.00

In recent years, the sanitization of vehicles has gained particular importance due to the COVID emergency and other major pandemics. However, beyond such events, this remains a crucial and often underestimated aspect.

For over 40 years, Vema, a leader in the environmental cleaning sector and always focused on developing and implementing innovative solutions, is proud to present the new **IGIENTRUCK automatic sanitizing system** for vehicles.

The sanitizing process is controlled by two photocells positioned at the platform entrance. As soon as they detect the outline of the vehicle, they activate the **stainless steel pumping** unit and the **electronic dosing pump**. Through **AISI 304** stainless steel piping bars equipped with special ceramic insert spray nozzles, designed for easy maintenance, the system sprays the vehicle both underneath and along the entire right and left sides.

Two additional photocells installed at the exit stop the system once the vehicle has completely passed through, thus preventing unnecessary product waste.

The spraying operates at a pressure of approximately 10 bar, with a total flow rate of about 18 liters per minute distributed across all installed nozzles.

This is an important figure: for example, to dispense a **0.5% disinfectant solution**, the system uses only **90 grams of product per minute**, offering a significant saving compared to similar systems with much higher consumption and operating costs.

The platform, to be constructed by the customer, measures 3.60 x 4 meters (W x L).

This not only considerably reduces masonry costs but also provides a technically efficient and aesthetically clean working area.

The system includes **four drainage channels with grilles (supplied by Vema)**, to be installed horizontally according to the project specifications.

The electrical system, featuring all low-voltage 24V auxiliaries, is managed by a **Mini PLC** that controls the entire process, including alarms, signal lights for "lane free" or "lane occupied" status, and timing functions — all of which can be easily adjusted to meet specific needs.

The system also includes an **anti-freeze function**, complete with an external temperature sensor, which automatically opens the air solenoid valve (via optional compressor) when the temperature drops below 2°C, ensuring complete drainage of the system in areas exposed to freezing conditions.

Technical features

COD.	FLOW RATE (lt/min)	PRESSURE (Bar)	POWER (kW)	RPM	VOLTAGE (Volt)	SUCTION PRODUCT PER- CENTAGE (%)	WEI- GHT (kg)	DIMENSIONS LxHxP (mm)	MAX. FEED TEMPERATURE	FLOW RATE COMPRESS. (lt/min)	FLOW RATE COMPRESS (kW)
10.4909.00	30	10	1,3	2800	400	0,5 -2	45	650x580x350	90°C	230	1,5



Water consumption at
10 bar pressure
= 18 lt/min



Disinfectant consumption
ex. 0,5 = 90 gr/min



Water consumption during
transit, assuming 15 seconds
= 4,5 Lt per vehicle

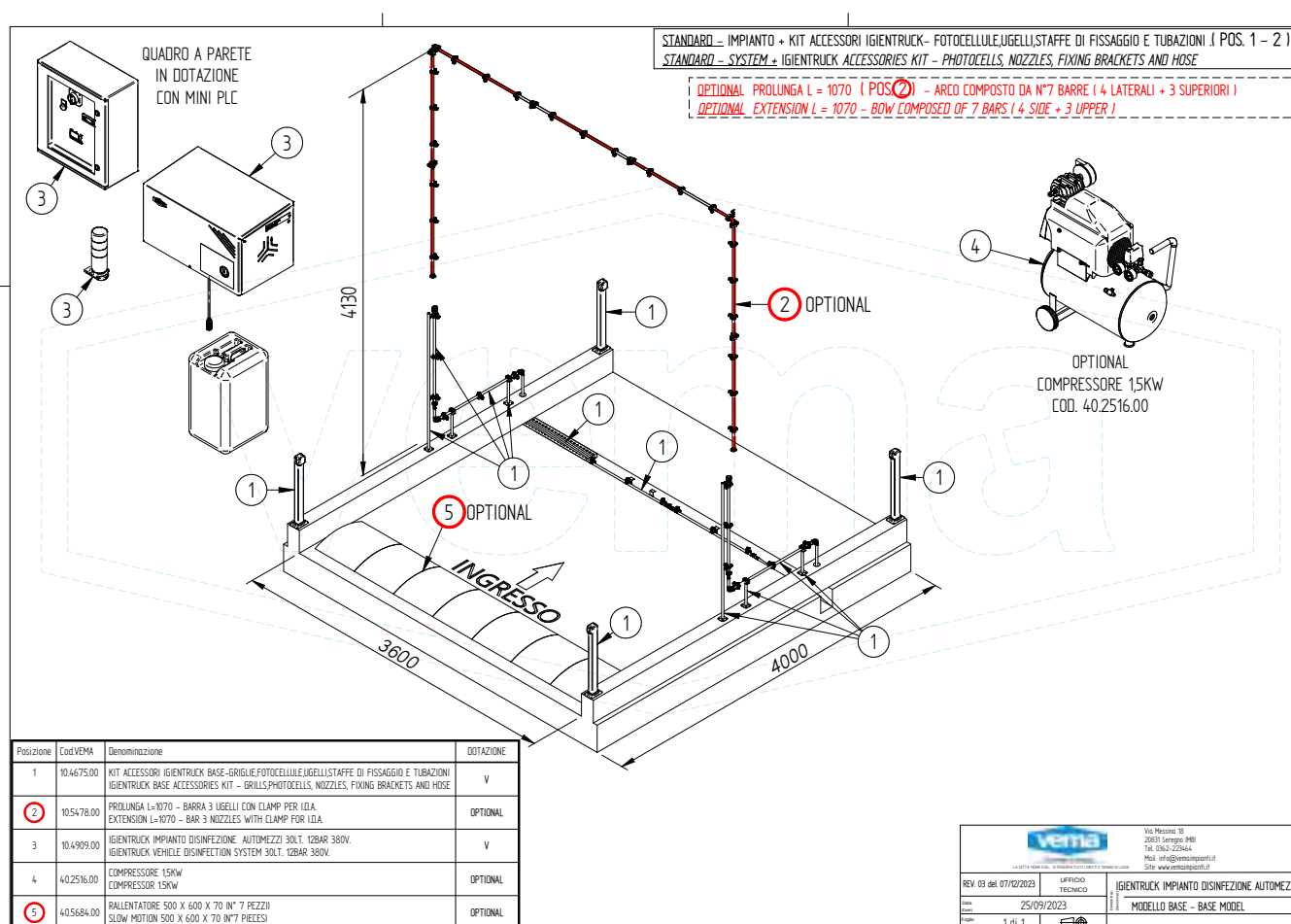


Disinfectant consumption
during transit, in 15 seconds
= 22,5 g per vehicle

8.10

Composizione impianto IgienTruck

- Pompa in acciaio Inox 10 bar
- Telaio Inox
- Fotocellule Rx-Tx complete di colonnine
- Tubazione Inox
- Ugelli a collare con inserto ceramico (N° 21x0,84 lt/min) = 18 lt/min
- Staffe di fissaggio con viteria Inox
- Protezione antigelo
- Compressore oil free 1,5 Kw con serbatoio di accumulo (optional)
- Lampada allarmi e funzionamento due colori rosso/verde
- Quadro elettrico in resina con min plc e controporta IP/65
- Dosso rallentatore 500x600x70 (LxPxH) Optional (n° 7 pezzi)
- Canale Smartpro con griglia in ghisa (4 pezzi)



Sanitizing in a simple way hands and shopping carts

8.11



At the basis of protection and prevention from viruses and bacteria there must be a thorough and regular hygiene routine, specially in crowded environments such as supermarkets and shopping centers where the protection of hygiene represents a real challenge.

Sanitizing Cart is a device for the sanitization of shopping cart and hands with automatic operation that guarantees treatments **with an autonomy of up to 1400 trolleys and over 11000 for the hands**, capable of **breaking down the bacterial and viral load of over 99%**.

Suitable for all types of trolleys **Sanitizing Cart** allows a simple and effective sanitization that takes place in seconds thanks to the use of a rapidly evaporating hydroalcoholic solution.

AREAS OF APPLICATION:

- Supermarkets
- Shopping Centers
- Airports
- Warehouses
- Hospitals



**Eliminate over the
99% of bacteria**

Available configurations

CODE	MODEL DESCRIPTION
10.2459.00	Sanitizing Cart 12 Vdc
10.2520.00	Sanitizing Cart 230 Vca

Technical features

- Material: Aisi / 304 stainless steel
- Power supply: 12 Vdc or 230 Vca
- Delivery Pressure: 7 Bar
- Number of Nozzles (Cart Area): 3
- Delivery Time: 4 sec (Adjustable)
- Number of Nozzles (Hands Area): 1
- Delivery Time: 1,5 sec (Adjustable)
- Consumption for 1000 deliveries / day: 10 Lt (Delivery 5 + 3 = 8 sec)
- Tanks capacity: N° 2 x 14 Lt
- Sanitizing level alarm: Red LED light
- System in operation signal: Green LED light
- Dimension mm (L x H x P): 1200 x 1500 x 800+540
- Empty weight: 130 Kg

8.12



Sanitize shopping baskets and trolleys in just few seconds

At the basis of protection and prevention from viruses and bacteria there it must be a thorough and regular hygiene routine, specially in crowded environments such as supermarkets and shopping centers where the protection of hygiene represents a real challenge.

Sanitizing Basket is a device for the sanitization of shopping baskets with automatic operation **capable of breaking down the bacterial and viral load of over 99%**.

Sanitizing Basket allows a simple and effective sanitization that takes place in seconds thanks to the use of a rapidly evaporating hydroalcoholic solution.

AREAS OF APPLICATION:

- Supermarkets
- Shopping Centers
- Airports
- Warehouses
- Hospitals



Eliminate over the 99% of bacteria

Available configurations

CODE	MODEL DESCRIPTION
10.3544.00	Sanitizing Basket 230 V

Technical features

- Dimensions: 650 x 1205 x 600 mm
- Power supply: 230 V
- Working Pressure: 15 Bar (Adjustable)
- Number of nozzles (Basket area): 1
- Sanitizer delivery time : 3 sec (Adjustable)
- Tank capacity: 14 Liters
- Flow rate: 0,065 L/min
- Power: 48 W
- Electric panel: IP65

Cabinets for sanitizing suits gloves and clothing

8.13



O3 Maxi



O3 Mini

The goal of **O3 Bact** is to remove bacteria carried by the environment, contact and dirt from overalls, gowns, gloves and other garments, eliminating the cause of irritation to the respiratory tract on the skin and the resulting unpleasant odors.

The particular conformations of these accessories do not make it possible to use traditional sanitizers, ozone (O^3 allotropic state of oxygen) represents an effective alternative due to its high sanitizing and disinfectant capacity.

Ozone is a natural gas that leaves no trace or chemical residue and is visually colorless.

O3 Bact is available in the **Mini** and **Maxi** version (cabinet) for all sanitation needs.

With an internal volume of 0.5 m³ it is able to sanitize the material stored inside in 2 seconds, however the operating time is adjustable and can be set up to 10 seconds.

O3 Bact is able to **reduce the bacterial load by over 80% already after 2 seconds.**

Available configurations

CODICE	DESCRIZIONE MODELLO
10.1570.00	O3 Bact Mini
10.1571.00	O3 Bact Maxi

Technical features

(O3 Bact Mini)

- Cabinet volume: 0,5 m³
 - O^3 Concentration up to 25 ppm/*
 - Exposure time: from 2 to 10 Sec. (adjustable)
 - Bacterial load reduction: > 80%
- * dependent on the initial UFC

Technical features

(O3 Bact Maxi)

- Cabinet volume: 0,5m
 - O^3 Concentration up to 25 ppm/*
 - Exposure time: from 2 to 10 Sec. (adjustable)
 - Bacterial load reduction: > 80%
- * dependent on the initial UFC

Automatic motorcycle washer with integrated recycling system

8.14

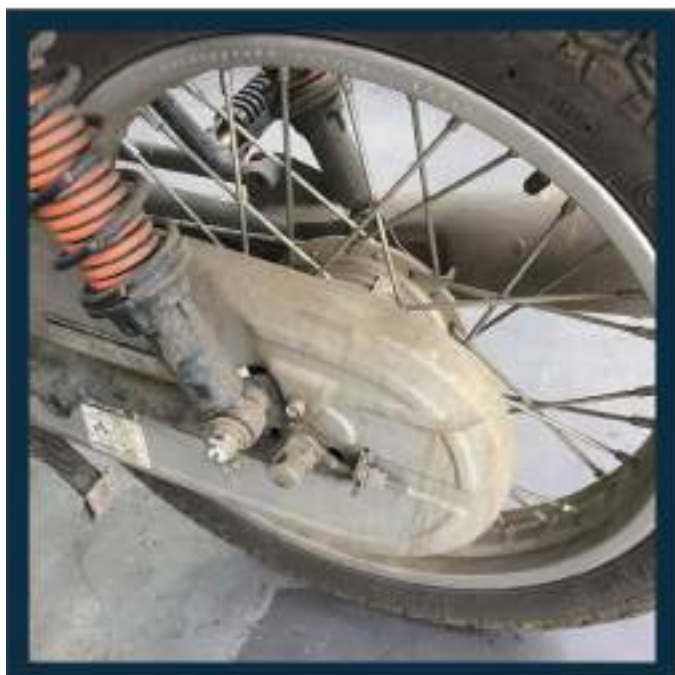


PH7 BIKE is a flexible system that allows fast washing for most standard models, we offer a turnkey service.

7 GOOD REASONS TO USE OUR SYSTEM:

- Reliability in all conditions of use
- High washing capacity per day
- Low pressure washing ≤ 10 bar
- Reduced consumption: only 2 liters of water needed per wash
- Minimum environmental impact
- Specific products for motorcycles
- Minimal maintenance

BEFORE



AFTER



Lightweight portable sprayers with lithium battery

8.15

Our **Sprayers** are developed with the most modern technologies, which is why we use lithium-ion batteries to minimize weight and energy consumption in combination with the control microprocessor which guarantees safety and optimization.

All telescopic lances are equipped with APS dust protections to prevent contaminants from entering the lance.

In addition, the metering valve integrated with the handle allows a reduction of the strain on the hand muscles. All the hoses of our **Sprayers** are equipped with additional internal reinforcement, therefore they are resistant to bending, cracking and stretching. Adjustable nozzles and instant refill complete the profile of our **Sprayers** in terms of efficiency and versatility.



Shoulder
40.2444.00

Backpack
40.2445.00

Wheeled
40.2446.00

Available configurations

CODE	LITHIUM BATTERY	TANK CAPACITY (lt)	MAX. WORKING PRESSURE (Bar)	WEIGHT (Kg)
40.2444.00	3,4 Ah	7,5	4	3,35
40.2445.00	3,4 Ah	14	4	6,8
40.2446.00	3,4 Ah	22	4	8,2

Technical features

- Power CABLE to charge the battery
- Tube and lance with integrated dosing valve
- Telescopic lance with a djustable nozzle MR 1.5 mm
- Funnel with filter
- Additional nozzles MR 1.0 - MR 2.0 mm with fixed jet and MF 3.0 mm fan nozzle
- Gasket kit and silicone grease

Sanitizing cabinets with UVC rays technology

8.16



The treatment of equipment with **UVC rays** arises from the verification that many pathogens exposed to sunlight slowed down their development and sometimes were even destroyed. The study of these radiations has led to the discovery of ultraviolet rays which, depending on the frequency, have been divided into three bands UVA-UVB and UVC. Among these, the one with the greatest bactericide power is the one with a frequency of less than 2800 Å (UVC).

More in-depth studies have confirmed that the action of these radiations is lethal for living microorganisms, such as viruses, spores and protozoa, thus starting to use **UVC rays**, suitably produced by special lamps for the surface treatment of those equipment, which due to their function are constantly in contact with perishable biological material.

Thanks to these studies, **sterilizer cabinets equipped with moisture extractor**, 69 W high-performance lamps and inside them, special guides for inserting the new CPC knife holders and APG 400 apron holders were created.

The versions differ in size and insertion capabilities.

P indicates knived and G indicates the hangers.

V AR Series

SANITIZING CABINETS WITH UVC TECHNOLOGY

Sanitizing cabinets with UVC rays technology

8.16

Technical features

CODE	ASPIRATOR (W)	UVC LAMPS (W)	KNIVES CAPACITY	APRONS CAPACITY	TIME RANGE SETTINGS	POWER SUPPLY	ABSORPTION (A)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm
V AR 55 P4 G4	9	n°1 x 69	4/6	4	0-180 min	230V-50HZ	0,4	83	550x2050x740*
V AR 55 P8	9	n°1 x 69	8/12	-	0-180 min	230V-50HZ	0,4	93	550x2050x740*
V AR 55 G4	9	n°1 x 69	-	4	0-180 min	230V-50HZ	0,4	90	550x2050x740*
V AR 100 P10 G10	15	n°2 x 69	10/15	10	0-180 min	230V-50HZ	0,7	129	1000x2050x740*
V AR 100 P20	15	n°2 x 69	20/30	-	0-180 min	230V-50HZ	0,7	140	1000x2050x740*
V AR 100 G16	15	n°2 x 69	-	10	0-180 min	230V-50HZ	0,7	137	1000x2050x740*

Sanitizing cabinets with Ozone generators

8.17



These **ozone cabinets** use an innovative technology to eliminate viruses, bacteria, fungi, microorganisms and odors from any surface. These devices are created to offer a natural, sustainable and safe disinfection solution, through a technology based on the effectiveness of the **Ozone**, an oxidizing gas naturally present in the environment, whose peculiar characteristics allow it to be used on any type of surface, including food intended for human consumption.

Ozone is in fact a highly unstable molecule that leaves no residue. These machines are made of stainless steel and have all the essential characteristics for the use of Ozone, maintaining its effectiveness while respecting the environment and the safety of those who use them.

Equipped with a **touch screen display and integrated software**, these systems can be integrated into any company IT and ERP system, in compliance with the requirements of Industry 4.0 regulations. Through the detection sensors it is possible to set up to 3 recipes with different saturation levels. of the chamber in operation of the pathogen to be treated.

V ARO SERIES

OZONE SANITIZING CABINETS 4.0 READY

Sanitizing cabinets with Ozone generators

8.17

Technical features

CODE	OZONE DESTRATI- FIC. (W)	O3 LAMPS (W)	CATALYZ. FAN	OZONE CONCEN- TRATION (ppm)	EXTERNAL EMISSIONS	ELECTRIC. PLUG(V)	ELECTRIC. CONSU- MPT.(W)	WEI- GHT (Kg)	DIMENSIONS (LxHxP) mm
V ARO 58	24	55	180 W	0-9	< 0,1 ppm	230	270	120	720x2080x816*
V ARO 116	24	n°2 x 55	180 W	0-9	< 0,1 ppm	230	325	150	1440x2080x816*

* Depht increases by 673 mm when the cabinet door is open

Technical features

- Activated carbon catalyst cartridge: 2 Kg
- Internet connection plug: RJ 45
- Touch-Screen Display: 4.3 Inches
- Auxiliary voltage: 24 V
- Modbus TPC connection
- Process certification e-mail
- Electric safety keys
- Internal courtesy lights
- Sound level: 50 dB
- Door opening conversion kit (L - R) - Available only for V ARO 58 model

ACCESSORIES

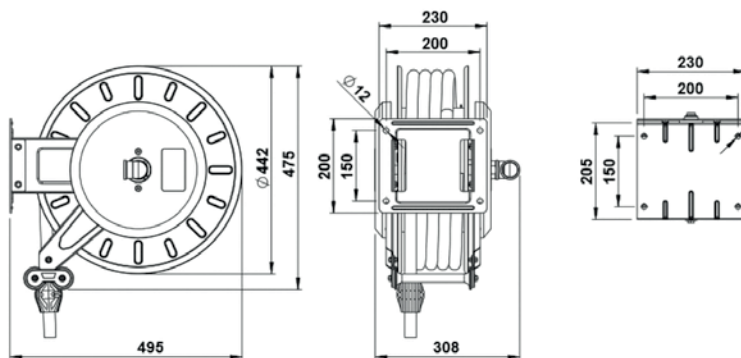
Accessories High pressure hose reels

9.1



S/s automatic hose reel complete of **antispot hose R2 3/8"L = 20mt**, connection hose with S/s male quick coupling and S/s orientable bracket

Dimensions (mm) / Dimensioni (mm)



Available configurations

CODE	HOSE REEL MATERIAL	HOSE FITTING	Ø (mm)	USE	HOSE	HOSE LENGTH(mt)	HOSE SECTION	MAX. HOSE PRESS.	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm
10.3720.00	S/Steel	-	442	High pressure	-	-	3/8"	400 Bar	14	186x442x495
10.5659.00	S/Steel	Zinc plated	442	High pressure	R/2	15	3/8"	400 Bar	23	186x442x495
10.5661.00	S/Steel	S/Steel	442	High pressure	R/2	15	3/8"	400 Bar	23	186x442x495
10.5007.00	S/Steel	Zinc plated	442	High pressure	R/2	20	3/8"	400 Bar	26	186x442x495
10.5019.00	S/Steel	S/Steel	442	High pressure	R/2	20	3/8"	400 Bar	26	186x442x495

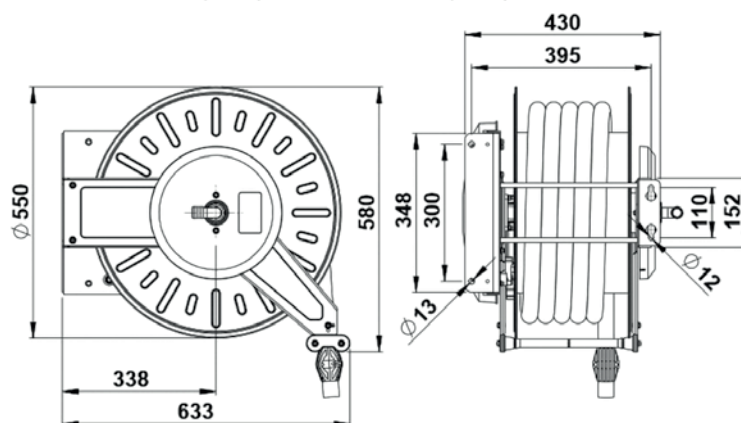
Medium and low pressure hose reels

9.1



Stainless steel automatic hose reel for low and medium pressure complete of 1/2" FOODJET hose for medium pressure plant from 10 to 50 bars or L.P. hose 016 -019 for models High Flow Rate {Max 10 Bar}.

Dimensions (mm) / Dimensioni (mm)



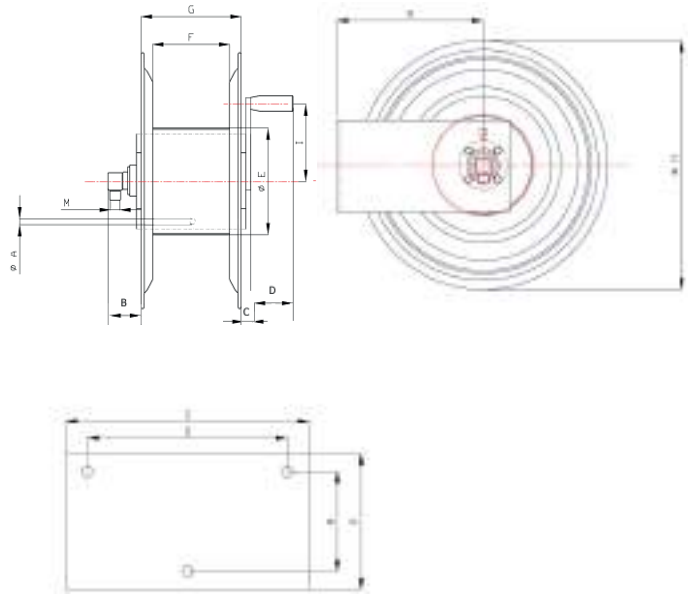
Available configurations

CODE	HOSE REEL MATERIAL.	HOSE FITTING	Ø (mm)	USE	HOSE	HOSE LENGTH (mt)	HOSE SECTION	MAX. HOSE PRESS.	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm
10.0889.00	S/Steel	-	550	Medium Pressure	-	-	1/2"x20mt	210	19	203x550x633
40.2471.00							1/2"x30mt			250x550x633
10.5077.00	S/Steel	S/Steel	550	Medium Pressure	FOOD JET	20	1/2"	80	30	203x550x633
10.5800.00						30				250x550x633
40.2935.00*	S/Steel	-	550	Low Pressure	-	-	16 mm	20	24	203x550x633
10.5658.00*	S/Steel	S/Steel	550	Bassa Pressione	B.P	15	16 mm	10	24	203x550x633
10.5438.00*	S/Steel	S/Steel	550	Bassa Pressione	B.P	20	16 mm	10	37	203x550x633

Manual hose reels for different pressures

9.2

Stainless steel h.p. manual hose reel to be equipped with hose R1 1/2" for plant up to 100 bars or hose R2 3/8" for plant up to 200 bars or 1/2" FOODJET hose for low or medium pressure plant up to 50 bars.



Available configurations

CODE	HOSE REEL MATERIAL	Ø (mm)	PRESSURE	HOSE	HOSE LENGTH (mt)	HOSE SECTION	MAX. HOSE PRESSURE (bar)	WEIGHT (Kg)	DIMENSIONS (LxHxP) mm
10.0447.00	S/Steel	330	Low - Medium - High	-	-	-	-	9	500x330x370
10.4155.00	S/Steel	330	Low	5/8" R/Z	15	5/8" (Ø16x26)	15	20	500x330x370
10.4153.00	S/Steel	330	Medium	FOOD JET - R/X	20	1/2"	80	25	500x330x370
10.4154.00	S/Steel	330	Medium	R/1 - R/Z	20	1/2"	100	25	500x330x370
10.1495.00	S/Steel	330	High	R/2 - R/X	20	3/8"	200	18	500x330x370

Dimensions

A	B	C	D	E	F	G	H	I	M	M	O	P	Q	R	S	T
2x10	70	30	100	150	250	290	330	150	1/2"	200	320	95	195	500	370	62,5



SUPPORTI PORTA TUBO

Accessories

9.4



Nozzle holder 1/8"
Cod. 40.2870.00



Nozzle holder 1/4"
Cod. 40.3142.00



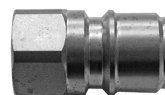
1/4" stainless steel lance body (Standard)
cm 70 **Cod. 40.4951.00**
cm 90 **Cod. 40.2221.00**
cm 120 **Cod. 40.4882.00**
cm 200 **Cod. 40.2869.00**



S/steel SUT
Coupling
Cod. 40.3088.00



S/steel pin Ø 14
Cod. 40.2220.00



S/Steel coupling
Cod. 40.3315.00

Available models for Low pressure with SUT coupling



CODE	DESCRIPTION
10.5273.00	S/S Washing lance cm. 10 - Nozzle holder 1/8" and S/S male SUT coupling
10.5274.00	S/S Washing lance cm. 10 - Nozzle holder 1/4" and S/S male SUT coupling
10.5959.00	S/S Washing lance cm. 70 - Nozzle holder " and S/S male SUT coupling
10.5598.00	S/S Washing lance cm. 70 - Nozzle holder 1/4" and S/S male SUT coupling
10.5599.00	S/S Washing lance cm. 90 - Nozzle holder " and S/S male SUT coupling
10.0996.00	S/S Washing lance cm. 90 - Nozzle holder 1/4" and S/S male SUT coupling
10.5937.00	S/S Washing lance cm. 120 - Nozzle holder " and S/S male SUT coupling
10.5958.00	S/S Washing lance cm. 120 - Nozzle holder 1/4" and S/S male SUT coupling

It can be used with:

Hydra 20/30 - Modula Smart - Hydra 25/100 - Hydra 20/200 - Hydra 40/75 - Hydra 12/25 - Hydra

9.4

Available models for high pressure with pin Ø 14



CODE	DESCRIPTION
10.4868.00	Stainless steel washing lance cm.10 - Nozzle holder ¼" and pin Ø 14
10.4952.00	Stainless steel washing lance cm. 70 - Nozzle holder ¼" and pin Ø 14
10.2219.00	Stainless steel washing lance cm. 90 - Nozzle holder ¼" and pin Ø 14
10.4871.00	Stainless steel washing lance cm. 90 - Nozzle holder ¼" and pin Ø 14
10.2937.00	Stainless steel washing lance cm.120- Nozzle holder ¼" and pin Ø 14
10.5958.00	Stainless steel washing lance cm.120 - Nozzle holder ¼" and pin Ø 14

It can be used with:

FMT1 - Modula Plus - FDR Super - Hydra 130/12 - Modula Plus 2 - FDR Super Air - Hydra 40/21 - FMT6

Available models for high pressure with s/s coupling



CODE	DESCRIPTION
10.5962.00	S/S Washing lance cm. 10 - Nozzle holder ¼" and male S/S coupling
10.5963.00	S/S Washing lance cm. 10 - Nozzle holder ¼" and male S/S coupling
10.5964.00	S/S Washing lance cm. 70 - Nozzle holder " and male S/S coupling
10.5965.00	S/S Washing lance cm. 70 - Nozzle holder ¼" and male S/S coupling
10.5966.00	S/S Washing lance cm. 90 - Nozzle holder " and male S/S coupling
10.3314.00	S/S Washing lance cm. 90 - Nozzle holder ¼" and male S/S coupling
10.5967.00	S/S Washing lance cm. 120 - Nozzle holder " and male S/S coupling
10.5968.00	S/S Washing lance cm. 120 - Nozzle holder ¼" and male S/S coupling

It can be used with:

FMT1 - Modula Plus - FDR Super - Hydra 130/12 - Modula Plus 2 - FDR Super Air - Hydra 40/21 - FMT6

**Max pressure 250 Bar
20 Lt/min - 160 °C**

9.5



CODE	DESCRIPTION
40.4637.00	Stainless steel Floor Cleaner cm. 41 for high pressure up to 200 bars with pin 014 complete of nozzles, pressure regulator-Gun excluded
40.4638.00	Stainless steel Floor Cleaner cm. 41 for Medium pressure up to 50 bars with male s/s coupling complete of nozzles, pressure regulator -Gun excluded

It can be used with:

All models in the range

Max pressure 350 Bar
45 Lt/min - 150 °C

9.6



Nozzle holder 1/8"
Cod. 40.2870.00



Lance body

H.P Gun
Cod. 40.1355.00



Nozzle holder 1/4"
Cod. 40.3142.00



S/Steel coupling
Cod.40.3315.00

Available models

CODE	DESCRIPTION
10.3532.00	S/S Washing lance cm. 90 - ST2300 gun, S/s Swivel - nozzle holder 1/8" without coupling
10.5969.00	S/S Washing lance cm cm. 90 - ST2300 gun, SS/s Swivel - nozzle holder 1/4" without coupling
10.4774.00	S/S Washing lance cm cm. 90 - ST2300 gun, SS/s Swivel - nozzle holder 1/4" without coupling
10.4881.00	S/S Washing lance cm cm. 120 - ST2300 gun, S/s Swivel - nozzle holder 1/8" with S/s male coupling
10.5970.00	S/S Washing lance cm. 90 - ST2300 gun, S/s Swivel - nozzle holder 1/4" with S/s male coupling
10.5971.00	S/S Washing lance cm. 120 - ST2300 gun, S/s Swivel - nozzle holder 1/4" with S/s male coupling

It can be used with:

FMT1 - Modula Plus - FDR Super - Hydra 20/30 - Hydra 130/12 - Modula Plus 2 - FDR Super Air - Hydra 40/21 - FMT6 Modula Smart - HD Evolution - Hydra 25/100 - Hydra 20/200- FMT6 Special - Static - Calidus - Hydra 40/75 Modula One - FDR - Hydra 12/25 - Hydra 50/50

9.7

NOZZLE MODEL	SPRAY ANGLE	NOZZLE SIZE	Ø NOZZLE (MM)	Flow rate (l/min) for the indicate pressure (Bar)																	
				1	2	3	4	5	6	7	8	9	10	15	20	25	30	40	50	60	70
2502	25	02	0,8	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	7	3	3
2503	25	03	1,1	0	1	1	1	1	1	1	1	2	2	2	3	3	3	4	4	5	5
2504	25	04	1,3	0	1	1	1	2	2	2	2	2	2	3	4	4	5	5	6	7	7
25041	25	04E	1,3	1	1	1	2	2	2	2	2	3	3	4	4	5	5	6	7	8	8
2505	25	05	1,4	1	1	2	2	2	2	3	3	3	3	4	5	6	6	7	8	8	9
25051	25	05E	1,5	1	1	2	2	2	3	3	3	3	4	4	5	6	6	7	8	9	10
2506	25	06	1,5	1	1	2	2	3	3	3	3	4	4	5	6	7	7	8	9	10	11
25061	25	06E	1,6	1	2	2	3	3	3	3	4	4	4	5	6	7	8	9	10	11	12
2507	25	07	1,7	1	2	2	3	3	3	4	4	4	5	6	7	8	8	10	11	13	13
2507	25	07E	1,7	1	2	3	3	3	4	4	4	5	5	6	7	8	9	10	11	13	14
2508	25	08	1,8	1	2	3	3	4	4	4	5	5	5	7	8	9	10	11	12	14	15
25081	25	08E	1,8	1	2	3	3	4	4	5	5	5	6	7	8	9	10	12	13	15	16
2509	25	09	1	2	3	3	4	4	5	5	5	6	6	8	9	10	11	13	14	16	17
2510	25	10	2	2	3	4	4	5	5	6	6	6	7	8	10	11	12	14	16	17	19
2511	25	11	2	3	4	5	6	7	8	9	9	10	10	13	15	17	18	21	24	26	28
2520	25	20	2	4	6	8	9	10	11	12	13	13	14	17	20	23	25	29	32	35	38
2521	25	21	3	5	8	9	11	12	14	15	16	17	18	22	25	28	31	36	40	44	47
2530	25	30	3	6	9	11	13	15	16	18	19	20	21	26	30	34	37	43	48	52	56
2531	25	31	3	8	11	13	16	17	19	21	22	24	25	31	35	40	43	50	56	62	66
2540	25	40	4	9	12	15	18	20	22	24	25	27	28	35	40	45	49	57	64	70	76
2550	25	50	4	11	14	19	22	25	27	30	32	34	36	44	51	57	62	72	80	88	95
2560	25	60	4	13	19	23	27	30	33	36	38	41	43	53	61	68	75	86	96	106	114

9.7

NOZZLE MODEL	SPRAY ANGLE	NOZZLE SIZE	Ø NOZZLE (MM)	Flow rate (l/min) for the indicated pressure (Bar)																	
				80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
2500	25	02	0,8	4,1	4,	4,	5,	5,	5,	6,	6,	6,	6,	6,	6,	6,	6,	6,	7,1	7,1	7,
2501	25	03	1,1	6,1	6,	6,	7,1	7,	7,1	8,	8,	8,	8,	9,1	9,	9,1	9,	9,1	10,1	10,	10,
2502	25	04	1,3	8,1	8,	9,1	9,	10,	10,	10,	11,1	11,	11,	12,	12,	12,	12,	13,	13,	13,	14,
2504	25	04	1,3	9,	9,1	10,	10,	11,	11,	12,	12,	13,	13,	13,	14,	14,	14,	15,	15,	16,	16,
2505	25	05	1,4	10,	10,	11,	12,	12,	13,	13,	14,	14,	14,	15,	15,	16,	16,	16,	17,	17,	18,
2505	25	05	1,5	11,	11,	12,	13,1	13,	14,	14,	15,	15,	16,	16,	17,	17,	18,	18,	19,1	19,1	19,1
2506	25	06	1,5	12,	13,	14,	15,	16,	16,	17,	18,	18,	19,1	19,	20,	20,	20,	21,	21,	22,	23,
2506	25	06	1,6	13,	14,	14,	15,	16,	16,	17,	18,	18,	19,1	19,	20,	20,	21,	22,	22,	23,	24,
2507	25	07	1,	14,	15,	16,	16,	17,	18,	18,	19,1	20,	20,	21,	22,	22,	23,	23,	24,	24,	25,
2507	25	07	1,1	15,	16,	17,1	17,	18,	19,	20,	20,	21,	22,	22,	23,	24,	24,	25,	25,	26,	27,1
2508	25	08	1,8	16,	17,	18,	19,1	19,	20,	21,	22,	23,	23,	24,	25,	25,	26,	27,	27,	28,	28,
2508	25	08	1,8	17,	18,	19,	20,	21,	22,	23,	23,	24,	25,	26,	26,	27,	28,	28,	29,	30,	30,
2509	25	09	1,	18,	19,1	21,	22,	23,	23,	24,	25,	26,	27,	28,	28,	29,	30,	31,	31,	32,	33,
2510	25	10	2	20,	21,	23,	24,1	25,	26,	27,	28,	29,	30,	30,	31,	32,	33,	34,	34,	35,	36,
2511	25	11	2	30,	32,	34,	35,	37,	38,	40,	41,	43,	44,	45,	46,	48,	49,	50,	51,	52,	53,
2521	25	20	2	41,1	43,	46,	48,	50,	52,	54,	56,	58,	60,	61,	63,	65,	66,	68,	69,1	71,	72,
2521	25	21	3	51,	54,1	57,	59,1	62,	65,	67,	69,1	72,1	74,	76,	78,	80,	82,	84,	86,	88,	90,1
2531	25	30	3	60,	64,	68,	71,	74,	77,	80,	83,	86,	88,	91,	93,	96,	98,	100,	101,1	105,	107,
2531	25	31	3	71,	75,	80,	83,	87,	91,	94,	98,	101,	104,	107,	110,	113,	115,	118,	121,	123,	126,
2541	25	40	4	81,	86,	91,	95,	99,	103,	107,	111	115,	118,	122,	125,	128,	131,	135,	138,	141,	143,
2551	25	50	4	102,	108,1	114,	119,1	124,	130,	134,	139,1	144,	148,	152,	157,	161,	165,	169,	172,	176,	180,
2561	25	60	4	122,	130,	137,1	143,	151,	156,	162,1	167,1	173,	178,	183,	188,	193,	198,	203,	207,1	212,	216,

Max Pressure 250 Bar 20 Lt/min - 160 °C

9.7



Stainless steel nozzle 1/8"
- 1/4" - 3/8"



Rotojet rotating nozzle
F. 1/4"- 200 bar
Cod. 40.4857.00



Rotating nozzle
R25-05-F. 1/4" 250 bar
Cod. 40.1802.00



Stainless steel pipe-cleaning
nozzle -06-M. 3/8"-9 200 bar
Cod. 40.5363.00



S/S foam nozzle
3/8" 50150
Cod. 40.2241.00



Plug with straight nozzle
- hole diameter according
to pressure and flow rate
- **Cod. 10.4954.00**

Available models 1/8" - 1/4"

CODE	DESCRIPTION
40.5972.00	H.P S/Steel nozzle 1/8" MEG 2502
40.5250.00	H.P S/Steel nozzle 1/8" MEG 2503
40.5174.00	H.P S/Steel nozzle 1/8" MEG 2504
40.4781.00	H.P S/Steel nozzle 1/8" MEG 25045
40.4764.00	H.P S/Steel nozzle 1/8" MEG 2505
40.5197.00	H.P S/Steel nozzle 1/8" MEG 25055
40.4383.00	H.P S/Steel nozzle 1/8" MEG 2506
40.5929.00	H.P S/Steel nozzle 1/8" MEG 25065
40.3533.00	H.P S/Steel nozzle 1/8" MEG 2507
40.4750.00	H.P S/Steel nozzle 1/8" MEG 2508
40.4765.00	H.P S/Steel nozzle 1/8" MEG 2509
40.2716.00	H.P S/Steel nozzle 1/8" MEG 2510
40.4822.00	H.P S/Steel nozzle 1/8" MEG 2515

CODE	DESCRIPTION
40.4618.00	H.P S/Steel nozzle 1/4" MEG 2520
40.3316.00	H.P S/Steel nozzle 1/4" MEG 2525
40.3090.00	H.P S/Steel nozzle 1/4" MEG 2530
40.0997.00	H.P S/Steel nozzle 1/4" MEG 2540
40.4619.00	H.P S/Steel nozzle 1/4" MEG 2550
40.4197.00	H.P S/Steel nozzle 1/4" MEG 1550

Note: for different flow and pressure requirements, please contact our technical department.

High pressure foam lance (200 Bar max) with thermal cover

9.8



Ø 14 Pin

Cod. 10.2218.00

To match with gun Cod. 10.1364.00



CODE	DESCRIPTION
10.3485.00	S/s foam lance 50 cm - nozzle - without coupling
10.2218.00	S/s foam lance 50 cm- nozzle- pin Ø14

It can be used with:

Foam System 1

Foam lance for medium-high pressure (50-100 Bar max) with handgrip



Ø 14 Pin

Cod. 10.3540.00

To match with gun Cod. 10.1364.00



CODE	DESCRIPTION
10.3540.00	5/s foam lance 30 cm - nozzle- pin 014

It can be used with:

Foam System 1 Air

Lancia schiuma per MediaPressione con Impugnatura

9.8



Cod. 10.0995.00



To match with gun Cod. 40.2039.00

CODE	DESCRIPTION
10.0995.00	S/s foam lance 30 cm - nozzle - S/s male SUT coupling
10.5898.00	S/s foam lance 30 cm - nozzle - S/s male coupling

It can be used with:

Foam & Wash M.P

9.8

**S/s foam lance for high pressure + air
with handgrip and h.p. gun**



CODE	DESCRIPTION
10.4773.00	S/s foam lance 50 cm -Gun ST2300 - Nozzle-S/s male coupling

It can be used with:

Foam System 1 Air e Foam & Wash

**Foam Lance for high pressure (200 Bar max)
with athermic cover and h.p. gun**



CODE	DESCRIPTION
10.5973.00	S/s foam lance 50 cm -Gun ST2300 - Nozzle-S/s quick male coupling

It can be used with:

Foam System 1

High pressure gun 250 Bar Max

9.9



H.p. gun complete of s/s Swivel
Cod. 40.1355.00

Pressione Max 310 Bar
45 Lt/min - 150 °C



H.p. gun complete of coupling Ø 14
and s/s Swivel **Cod. 10.1364.00**

Pressione Max 310 Bar
45 Lt/min - 150 °C

Medium pressure guns



M.P Gun with swivel **Cod.**
40.2039.00

140 Bar 80 Lt/min - 160 °C



L.p gun RB65 Adjustable jet 24 Bar
100 Lt. + SW 1/2" Female
Cod. 40.4801.00 (Blu')
Cod. 40.4800.00 (Rossa)

24 Bar - 100 Lt/min - 90 °C



L.P. gun RB35 Adjustable jet 12 Bar
50 Lt. + SW 1/2" Female
Cod. 40.4973.00

12 Bar - 50 Lt/min - 80 °C

9.9

NEW

Special gun "Olivia" - Low pressure



L.P Gun with S/Steel Swivel and hose holder **Cod. 10.4538.00**

Max Pressure 25 Bar
Flow-rate 100Lt - Max.Temp

Description

Olivia is the innovative **low pressure gun** designed by **Vema** that combines unrivaled practicality, as well as guaranteeing a remarkable cleaning effect on the surfaces to be treated, thanks to the innovative dispensing nozzle that guarantees high performance in terms of flow rate and pressure.

Entirely made of stainless steel, weighing only 1 kg, **Olivia** is the perfect mix of performance, comfort and resistance. The stainless steel Swivel and the assisted dispensing mechanism make it even more practical and performing in everyday use.

Highlights:



Ergonomic

Assisted delivery mechanism to eliminate the stress of manual use for long periods



Solidity

Reinforced cover for greater protection of the gun in case of accidental bumps and falls



Practicality

Stainless steel swivel with hose connection from Ø16 to Ø19 mm to guarantee maximum reliability and flexibility of use of the gun

OPTIONAL

For High - Medium - Low pressure

9.10

HOSE STRUCTURE	HOSE MODEL	MAX. WORKING PRESSURE (Bar)	ARMOR	INTERNAL DIAMETER	MIN PRES-SURE OF BREAK (Bar)	MIN RADIUS OF CURVATURE (mm)	MAX WORKING TEMP. (° C)	WEIGHT (Kg/mt)
	FOODJET	80	Single textile braid	1/2 "	240	100	-20 ~ +150	0,35
	R1	100	Single S/s braid	1/2 "	400	130	-10 ~ +135	0,355
	R2	400	Double S/s braid	3/8"	1600	90	-10 ~ +135	0,425
	T-350	15 Bar (7 Bar with steam)	Single textile braid	Ø16 x 26	40	180	-20 ~ +160	0,35
	T-350	15 Bar (7 Bar with steam)	Single S/s braid	Ø19 x 31	40	200	-20 ~ +160	0,35

CODE	HOSE MODEL	INTERNAL DIAMETER	HOSE LENGHT (mt)	MAX WORKING PRESSURE (Bar)	CRIMP
10.1082.00	FOODJET	1/2"	20	80	S/S Rotating Fittings F/F. ½"
10.4809.00	FOODJET	1/2"	25	80	S/S Rotating fittings F/F. ½"
10.5976.00	R1	1/2"	15	100	Zinc Plated rotating fittings F/F. ½"
10.5977.00	R1	1/2"	20	100	Zinc Plated rotating fittings F/F. ½"
10.5978.00	R1	1/2"	15	100	S/S Rotating Fittings F/F. ½"
10.0994.00	R1	1/2"	20	100	S/S Rotating Fittings F/F. ½"
10.3534.00	R2	3/8"	15	400	Zinc Plated rotating fittings F/F. "
10.3474.00	R2	3/8"	20	400	Zinc Plated rotating fittings F/F. "
10.4772.00	R2	3/8"	25	400	Zinc Plated rotating fittings F/F. "
10.5991.00	R2	3/8"	15	400	S/S Rotating Fittings F/F. "
10.1491.00	R2	3/8"	20	400	S/S Rotating Fittings F/F. "
10.5979.00	R2	3/8"	25	400	S/S Rotating Fittings F/F. "
40.2831.00	T-350	Ø 16 x 26	-	15 Bar (7 Bar with steam)	-
40.2855.00	T-350	Ø 19 x 31	-	15 Bar (7 Bar with steam)	-

Different lengths and crimps on demand

9.11

H.P. quick coupling

COUPLING	CODE	TYPE	MATERIAL	PLUG	MAX. WORKING PRESSURE	MAX. WORKING TEMP (° C)
	40.3315.00	Male	S/Steel	F. 3/8"	250 Bar	90 °C
	40.3646.00	Female	S/Steel	F. 3/8"	250 Bar	90 °C
	40.3528.00	Female	Chromed Brass	F. 3/8"	250 Bar	90 °C
	40.2220.00	Male pin	S/Steel	F. 1/4 "x Ø 14	250 Bar	0 °C9

H.P. and M.P. quick coupling

COUPLING	CODE	TYPE	MATERIAL	PLUG	MAX. WORKING PRESSURE	MAX. WORKING TEMP (° C)
	40.3088.00	SUT male for lances	S/Steel	F. 1/4"	100 Bar	90 °C
	40.0985.00	Male SUT	S/Steel	F. 3/8"	100 Bar	90 °C
	40.3089.00	Male SUT	S/Steel	F. 1/2"	100 Bar	90 °C
	40.2117.00	Female SUT	S/Steel	F. 1/2"	100 Bar	90 °C
	40.0984.00	Female SUT	S/Steel	M. 1/2 "	100 Bar	90 °C

L.P. quick coupling

COUPLING	CODE	TYPE	MATERIAL	PLUG	MAX. WORKING PRESSURE	MAX. WORKING TEMP (° C)
	40.2861.00	Male	Chromed Brass	Hose holder Ø 17/19	10 Bar	90 °C
	40.0918.00	Female	Chromed Brass	F. 3/4 "	10 Bar	90 °C

9.11

High-pressure stainless steel fittings Cil/Sv.

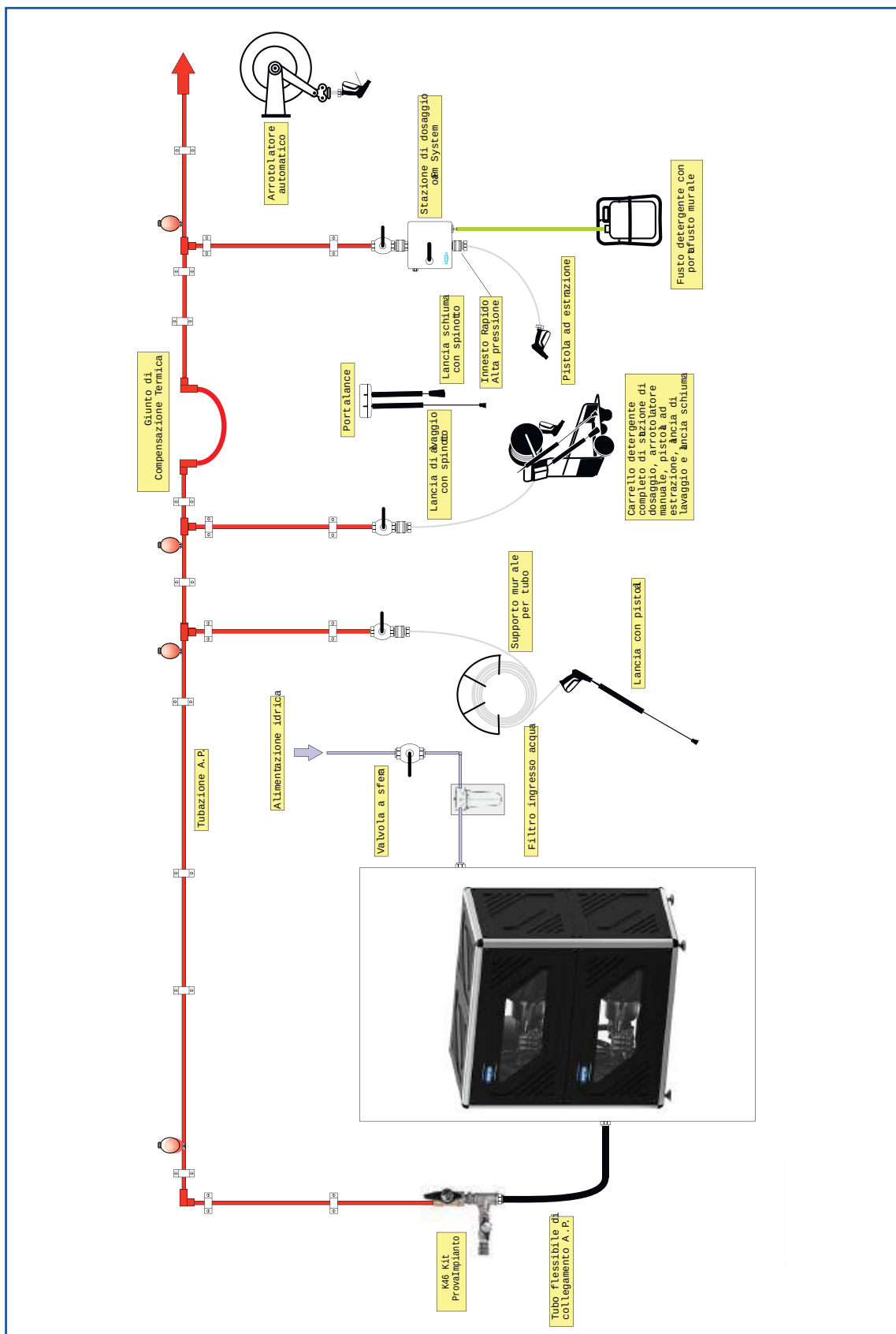
COUPLING	CODE	MATERIAL	THREAD CONNECTION
	20.1309.06	S/Steel	1/4"
	20.0915.06	S/Steel	3/8"
	20.0986.06	S/Steel	1/2" x 3/8"
	20.0704.06	S/Steel	1/2"
	40.6426.00	S/Steel	3/4" x 3/8"
	40.0700.00	S/Steel	3/4" x 1/2"
	40.0701.00	S/Steel	3/4"
	40.4717.00	S/Steel	3/4" x 1"
	20.0524.06	S/Steel	1"
	40.4712.00	S/Steel	1" x 1/2"
	40.4704.00	S/Steel	1"
	40.4703.00	S/Steel	1-1/4"

High pressure swifel M/F Fittings

COUPLING	CODE	MATERIAL	THREAD CONNECTION
	40.0523.00	S/Steel	S/S Fitting 1/4"
	40.0924.00	S/Steel	S/S Fitting 3/8"
	40.2187.00	S/Steel	S/S Fitting 1/2"
	40.1341.00	S/Steel	S/S Fitting 3/4"
	40.1342.00	S/Steel	S/S Fitting 1"
	40.1231.00	S/Steel	S/S Fitting 1-1/4"

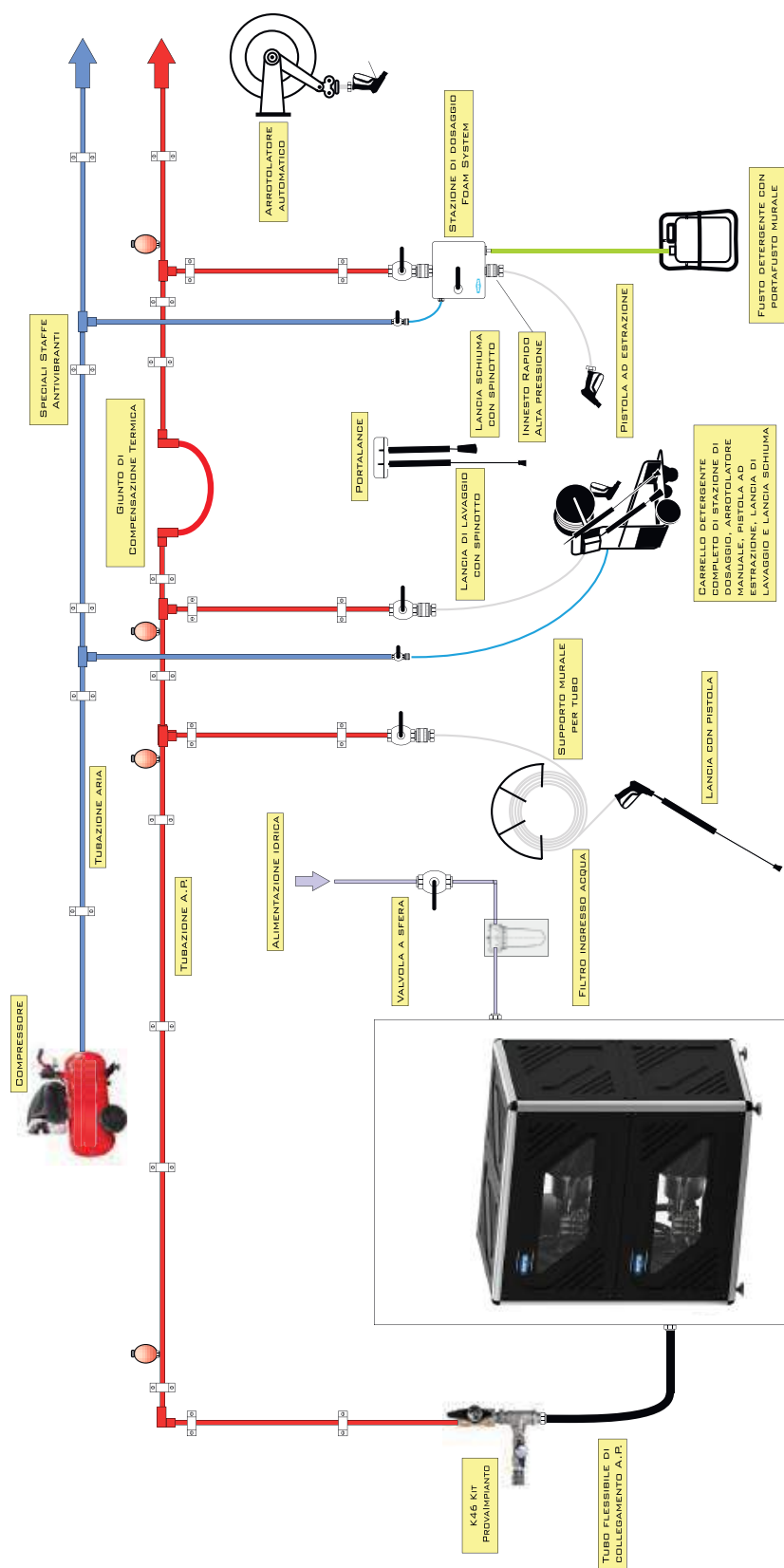
Operation diagram for washing plants high pressure

9.12



Operation diagram for washing plants medium pressure max 50 bar

SCHEMA ILLUSTRATIVO IMPIANTO DI LAVAGGIO CENTRALIZZATO



9.13

ACCESSORY	CODE	DESCRIPTION
	10.4370.00	S/s bracket ½ " with collars and s/s antivibration
	10.4365.00	S/s bracket 3/ 4 " with collars and s/s antivibration
	10.4363.00	S/s bracket 1 " with collars and s/s antivibration
	10.4360.00	S/s bracket 1 1/4 " with collars and s/s antivibration
	10.3656.00	S/s bracket 1 1/2 " with collars and s/s antivibration
	10.4372.00	S/s bracket ½ "with collars without antivibration
	10.4369.00	S/s bracket 3/4 " with collars without antivibration
	10.4364.00	S/s bracket 1 " with collars without antivibration
	10.4362.00	S/s bracket 1 1/4" with collars without antivibration
	10.3658.00	S/s bracket 1 ½ " with collars without antivibration

9.14

ACCESSORY	CODE	DESCRIPTION
	10.5980.00	Test Kit for plant
	40.0570.00	H.P. accumulator 0,35 Lt - 1/2" F.
	40.3201.00	H.P. accumulator 10 Lt - 1 1/4" F.
	10.5981.00	L.P. filter 1" FF Complete of s/s cartridge AISI 316- 60 µm 50 Mesh 50 °C Max
	10.5982.00	L.p. s/s filter sx600 11/4" FF Complete cartridge brass head - 60 µm 50 Mesh 50 °C Max
	40.5165.00	Double filter container 111 FF, brass tip-in without cartridge
	40.2983.00	S/s cartridge AISI 316- 60 µm - 50 Mesh - 50 °C Max
	40.5984.00	Carbon wire cartridge FA-AC 20 µm
	40.5985.00	Stainless steel in-line filter AISI 304 1/2" FF
	40.5986.00	Stainless steel in-line filter AISI 304 3/4" FF
	40.1433.00	Stainless steel in-line filter AISI 304 1" FF
	40.1725.00	Stainless steel in-line filter AISI 304 1 1/4" FF
	40.5987.00	Stainless steel in-line filter AISI 304 1 1/2" FF
	40.5988.00	Stainless steel in-line filter AISI 304 2" FF

9.15

ACCESSORY	CODE	DESCRIPTION
	40.0374.00	H.P. Stainless steel ball valve MiniBall ¼" FF -10 Bar Max
	40.0917.00	H.P. Stainless steel ball valve 1" FF with lever -150 Bar Max
	40.2101.00	H.P. Stainless steel ball valve ½" FF with lever -150 Bar Max
	40.0376.00	H.P. Ball valve ½" FF with lever -100 Bar Max
	40.0225.00	H.P. Chromed ball valve 1" FF -150 Bar Max
	40.0690.00	H.P. Chromed ball valve ½" FF -150 Bar Max
	40.2077.00	H.P. Chromed ball valve 1" FF -150 Bar Max
	40.3018.00	H.P. Stainless steel ball valve AISI 316 ½" FF with lever - 200 Bar Max

9.16



ACCESSORY	CODE	DESCRIPTION
	10.3962.00	Plastic water tank 300 lt with stainless steel frame complete of 1,5 kW pump, control and water level sensor Dimensions: 1132,5x904x915 mm
	10.3891.00	Plastic water tank 300 lt with stainless steel frame complete of 0,75 kW pump, control and water level sensor Dimensions: 1132,5x904x915 mm
	10.3960.00	Plastic water tank 300 lt with stainless steel frame complete of 2,2 kW pump, control and water level sensor Dimensions: 1132,5x904x915 mm
	10.3961.00	Plastic water tank 300 lt with stainless steel frame complete of 3 kW pump, control and water level sensor Dimensions: 1132,5x904x915 mm

Optional accessories for plant lance holder, hose holder, tank holderFusti

9.17

ACCESSORY	CODE	DESCRIPTION
	20.0560.06	Stainless steel wall holder for lance with pin Ø 14
	20.0559.06	Stainless steel wall holder for lance with male sut coupling
	20.5989.06	Stainless steel wall holder for lance with male coupling
	10.1335.00	Stainless steel wall holder for FOODJET hose - R1 - R2 mt. mt. 20 Max (Lx H x D: 355 x 185 x 180 mm) See Section 51.2
	10.1567.00	Stainless steel wall holder for tank 30 Kg (Lx H x D: 335 x 650 x 290 mm)
	10.0299.00	Boxed Stainless steel holder for tank 30 Kg (closed version)



SPECIAL EQUIPMENT

Automatic washing system for conveyor belts and mobile systems

10.1



Robotina 2000 is an equipment that perfectly and fully automatically solves the cleaning of any rotating table, conveyor belt or any other moving system.

Robottina 2000 is available both in the motorized version with Inverter and in the pneumatic version.

The **electric version** includes motor control through an **inverter** and the stroke is managed by proximity sensors.

The **pneumatic version** works with compressed air and thanks to the absence of electrical parts it is extremely reliable and safe in all places where it is not possible to use electricity.

For operation it is sufficient to connect the washing head to a medium pressure water pumping system.

Robottina 2000 is installed directly on the top of the rotating table structure quickly and when it is in operation it thus replaces the operator, relieving him from repetitive, long and tedious operations, always and surgically cleaning the surface of the belt.

The nozzle holder trolley used for washing runs at a speed of over 1 m/s and guarantees a cleaning effect on the noticeable dirty surface, with a reduced water consumption compared to the classic fixed bars which, by engaging a lot of nozzles, lead to a consumption of water. not very rational.

Available configurations

CODE	MODEL DESCRIPTION	COVERAGE (mm)	SLIDING SPEED	POWER (W)	TENSIONE (Volt)	VOLTAGE (kg)	PEDESTAL DIMENSIONS (LxHxP) mm
10.5480.00	Motorized	1000	Adjustable	220	230	30	1300 x 1120 x 470
10.5990.00	Pneumatic	1000	Adjustable	-	-	30	1300 x 1120 x 470

Automatic washing system for conveyor belts and mobile systems

10.1

Technical features

(Electric Version)

- Low voltage controls
- Cleaning of any belt up to 100 cm wide (Different widths on request)
- IP65 watertight electrical panel
- 230 volt electric motor with very low consumption - only 0,18 kW
- Adjustment of the sliding speed of the nozzle holder carriage
- Soft and silent functioning
- Support bracket in stainless steel
- N. 1 nozzle to ensure maximum cleaning without engaging an operator
- Possibility of using several additional or rotating nozzles (Optional)
- Control inverter inserted in the electrical panel to adjust the sliding speed
- Connection by means of a stainless steel quick coupling with any high or medium pressure hose

Technical features

(Pneumatic version)

- Cleaning of any belt up to 100 cm wide (Different widths on request)
- Compressed air movement
- Adjustment of the sliding speed of the nozzle holder carriage
- Soft and silent functioning
- Support bracket in stainless steel
- N. 1 nozzle to ensure maximum cleaning without engaging an operator
- Possibility of using several additional or rotating nozzles (Optional)
- Connection by means of a stainless steel quick coupling with any high or medium pressure hose
- Easy adjustment of the useful stroke through pneumatic switches

Optional accessories



S/S protection cover
Cod. 20.2362.06



S/S pedestal
Cod. 10.1458.00

Drum transfer pump

10.2



Delivery gun in PVD $\varnothing$ 15
Viton gaskets **Cod. 40.3529.00**

The **PT01** is a portable drum transfer pump, particularly suitable for pumping corrosive fluids, it works immersed in the liquid. Its design has been specifically designed to collect any product leaks in the drum. The **PT01** transfer pump consists of a tube float, at the end of which is housed the open impeller fixed on the drive shaft thanks to a ring nut.

Operation involves an impeller integral with the shaft, connected to the electric or pneumatic motor via a coupling joint.

The **PT01** pump must be used exclusively with the axis arranged vertically and with the pump immersed in the fluid; running dry or in the presence of bubbles can damage the shaft guide inner bushing.

- Product designed and built in Italy
- Portable
- Suitable for corrosive fluids
- Absence of mechanical seals
- Easily deassemblable

Available configurations

Pump models (Engine excluded)

CODE	MODEL	Ø DIP TUBE (mm)	Ø HOSE HOLDER (mm)	MAX. OPERATING TEMP. (°C)	LENGTH (mm)	WEI- GHT (kg)	MAX. FLOW-RATE (l/min)	LIQUID MAX. VISCOSITY (cps)
40.3519.00	Polypropylene *Shaft in Aisi/316	42	25	65	900	1,4	90	900
40.3520.00	Polypropylene *Shaft in HASTELLOY	42	25	65	900	1,4	90	900
40.3521.00	Polypropylene *Shaft in Aisi/316	42	25	65	1200	1,7	90	900
40.3522.00	Polypropylene *Shaft in HASTELLOY	42	25	65	1200	1,7	90	900
40.3523.00	PVDF	40	25	95	900	1,6	90	900
40.3524.00	PVDF	40	25	95	1200	1,9	90	900
40.3525.00	Aisi/316	42,5	25	95	900	4,3	90	900
40.3526.00	Aisi/316	42,5	25	95	1200	5,3	90	900

Pump features

10.2

Technical features

(Propylene model)

- Polypropylene dip tube
- HASTELLOY or Aisi/316 shaft
- ECTFE impeller
- Polypropylene suction outlet
- Viton® seal gasket in contact with the fluid
- Pneumatic or electric motor
- Possibility to adjust the flow rate (only with pneumatic motor)

Technical features

(PVDF model)

- PVDF dip tube
- HASTELLOY shaft
- ECTFE impeller
- Polypropylene suction outlet
- Viton® seal gasket in contact with the fluid
- Pneumatic or electric motor
- Possibility to adjust the flow rate (only with pneumatic motor)

Technical features

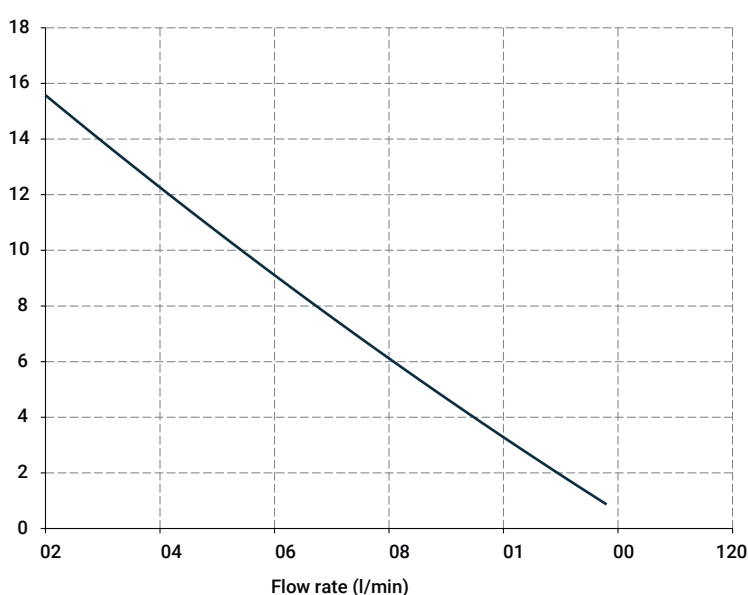
(Aisi/316 model)

- Aisi/316 dip tube
- Aisi/316 Shaft
- ECTFE impeller
- ECTFE suction outlet
- Viton® seal gasket in contact with the fluid
- Pneumatic or electric motor
- Possibility to adjust the flow rate (only with pneumatic motor)

10.2

PT01 SERIES - ELECTRIC MOTOR - cod. 40.3517.00

Drum transfer pumps with **800 Watt electric motor** and open impeller that allows the continuous pumping of clean corrosive fluids with apparent viscosity up to 900 cps. The pump is fitted with a safety switch to prevent any accidental restarts after a drop in the power supply

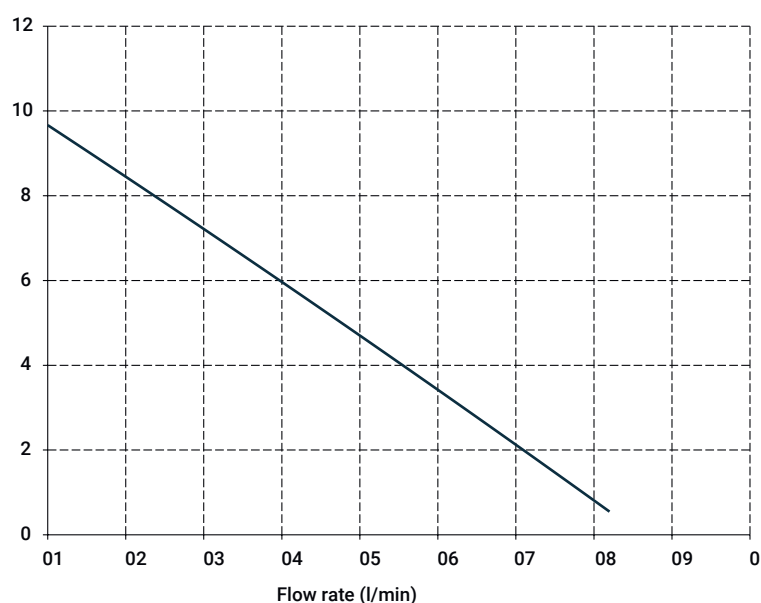


Electric motors technical features

Power	800 Watt
Voltage	230 V monofase
RPM	10500
Protection rating	IP54
Class	F
Flow-rate	90 l/min
Viscosity	900 cps
Density	1,6 g/cm ³
Weight (Kg)	3,8
ATEX Motor	on demand

PT01 SERIE S - PNEUMATIC MOTOR - cod. 40.3518.00

Drum transfer pumps with pneumatic motor and open impeller that allows the continuous pumping of clean corrosive fluids with apparent viscosity up to 600 cps. The pump allows the flow rate adjustment.



Pneumatic motors technical features

Pneumatic motor	Standard
Power	0,42 HP (300 Watt)
Flow rate	70 l/min
Viscosity	600 cps
Density	1,2 g/cm ³
Weight in Kg	1,1
ATEX Motor	su richiesta



OZONE

11.1



Technical features

(Code: 40.2488.00)

- Ozone output: 0.5 g/h a 2.5 L/min - <20% RH a 25 °C Dry air
- Ozone concentration: > 0.3 mg/L a 2.5 L/min Air flow
- Gas flow: 2.5 L/min
- Material: Quartz tube and Aisi / 316 stainless steel electrode
- Output commission: 0.5 mm hose connector
- Continuous functioning (24h)
- Forced air cooling system
- Method: Corona discharge
- Voltage: 110-220V AC
- Operating temperature: -10 °C / + 60 °C
- Deposit temperature: -20 °C / +70 °C
- Dimensions L x W x H: 192 x 87 x 80 mm
- Weight: 1,55 kg
- Mounting: Wall fixing with brackets
- Purification area: 0 - 50m³, 20 min
- Accessories: Diffuser, Bracket; Adapter; Silicon tube.

11.2



Technical features

(Code: 10.2703.00)

- Ozone output: 0.5 g/h a 2.5 L/min - <20% RH a 25 °C Aria Secca
- Ozone concentration: > 0.3 mg/L a 2.5 L/min Flusso D'aria
- Gas flow: 2.5 L/min
- Material: Quartz tube and Aisi/316 stainless steel electrode
- Output commission: 0.5 mm hose connector
- Continuous functioning (24h) - Automatic timer
- Forced air cooling system
- Method: Corona discharge
- Voltage: 110-220V AC
- Operating temperature: -10 °C / + 60 °C
- Deposit temperature: -20 °C / +70 °C
- Dimensions L x W x H: 192 x 87 x 80 mm
- Weight: 1,55 kg
- Mounting : Wall fixing with brackets
- Purification area: 0 - 50 m³, 20 min
- Accessories: Diffuser; Bracket; Adapter; Silicon tube.

11.3



Technical features

(Code: 40.2489.00)

- Ozone output: 2000 mg/h Aria Secca
- Gas flow: 10 L/min
- Material: Quartz tube and Aisi/316 stainless steel electrode
- Power: 65 W
- Continuous functioning (24h) - Automatic timer
- Cooling air system - 90 CFM (120*120*25mm)
- Method: Corona discharge
- Voltage: 110-220V AC
- Dimensions L x W x H: 286.5 x 162 x 178 mm
- Weight: 6 kg
- Purification area: 50 - 100 m³, 30 min
- Accessories: Diffuser; Bracket; Adapter; Silicon tube.

11.4



Technical features

(Code: 40.2490.00)

- Ozone output: 4000 mg/h Dry air
- Gas flow: 22 L/min
- Material: Quartz tube and Aisi/316 stainless steel electrode
- Power: 100 W
- Continuous functioning (24h) - Automatic timer
- Cooling air system - 90 CFM (120*120*25mm)
- Method: Corona discharge
- Voltage: 110-220V AC
- Dimensions L x W x H: 382 x 203 x 234 mm
- Weight: 8 kg
- Purification area: 150 - 300 m³, 60 min
- Air/Water purification
- Accessories: Diffuser; Bracket; Adapter; Silicon tube.

Portable ozone generator**11.5****Technical features****(Code: 40.2495.00)**

- Timer functioning (0 - 120 min)
- Air cooling system
- Method: Corona discharge
- Voltage: 110-220V AC
- Air source: Ambient air
- Material: Quartz tube and titanium electrode
- Dimensions: 38 x 25 x 34 cm
- Purification: Air only
- Ozone output: 20 g/h
- Purification area: 800 - 1200 (120 min)
- Power: 120 W
- Weight: 7 kg



DISHWASHERS AND WASHING TUNNELS

Containers washers with static tray - single door

12.1



V LCF 1000 G V LCF 1100 G

The “**V LCF**” **series** includes the most capacious basket machines fixed on the market today. Created specifically to solve the washing problems of large baskets and trays up to mm. 1000x800, it is particularly suitable for the bakery sector and all those sectors that use bulky material.

The 4 models allow its inclusion in different productive scenarios, reducing washing costs and guaranteeing a hygienic standard, qualitatively constant.

A special washing system with rotating arms in pressed stainless steel, placed both above and below the material to be washed, allows you to reach every hidden corner.

In the meat sector, a special **PEAK CONTROL KIT** allows you to keep the **washing temperature constant between 48 ° C and 51 °C**, which is necessary for that type of dirt.

A circuit dedicated to superheated clean water, distributed by rotating arms, guarantees a deep rinse. The structure is completely in **AISI/304 stainless steel** in compliance with the regulations in force.



V LCF 1500 G



V LCF 1500 R



V LCF 1800 G



V LCF 1800 AG

V LCF Series

CONTAINERS WASHER WITH STATIC TRAY

12.1 V LCF Models

	V LCF 1000 G	V LCF 1100 G	V LCF 1500 G	V LCF 1500 R	V LCF 1800 G	V LCF 1800 AG
LENGTH (mm)	1060	1160	1560	1560	1860	1860
DEPTH (mm)	1166	1266	1167	1150	1318	1318
HEIGHT (mm)	2062	2062	2065	2065	2065	2212
MAX. USABLE MEASURES (mm)	843x930x855		1344x930x855	1344x930x855		
TRAY MEASURES (mm)	830x910	930x1010	1330x910	1330x910	1630x1010	1630x1010
USABLE HEIGHT WITH TRAY (mm)	830	830	830	830	830	975
HEIGHT WITH OPEN DOOR (mm)	2893	2893	2893	2300	2893	3043
TANK CAPACITY (l)	90	100	130	130	170	170
WATER CONSUMPTION (l) per cycle	9	9	12	12	14	14
WASHING PUMP (kW)	2,9	2,9	2x2.6	2x2.6	2x2,9	2x2,9
RINSING PUMP (kW)	0,75	0,75	0.75	0.75	0,75	0,75
TANK COIL (kW)	6	6	12	12	12	12
BOILER COIL (kW)	6	6	12	12	12	12
BOILER CAPACITY (l)	12	12	25	25	25	25
TOTAL ABSORPTION (kW)	9	9	17.2	17.2	18	18
CHIMNEY (ø mm)	260	260	260	260	260	260
WATER IN-LET (pollici)	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M
WATER OUT-LET (pollici)	2" M	3/4" M	2" M	2" M	2" M	2" M
POWER SUPPLY	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ
CONTROLS VOLTAGE (V)	8	8	8	8	8	8
Washing cycles	2-4-6 min o doppi	2-4-6 min o doppi	2-4-6 min o doppi	2-4-6 min o doppi	2-4-6 min o doppi	2-4-6 min o doppi
Rinsing cycles	25 o 40"	25 o 40"	25 o 40"	25 o 40"	25 o 40"	25 o 40"
WATER SUPPLY (°C)	50/60	50/60	50/60	50/60	50/60	50/60
WEIGHT (kg)	290	320	485	470	530	530
SOUND LEVEL (dB)	68	68	70	70	72	72
Main S/Steel tray	1	1	1	1	1	1

Available options

- Timed steam-aspirator: 0,18 (kW)
- Sanification kit
- Washing temperature peak control kit
- External shower
- Detergent doser
- Empty tank acoustic signal
- Coil release system for overloads
- Assembly on wheels

12.1

Optional accessories



- | | |
|---|---|
| 1 | BUILT-IN DETERGENT CAN HOLDER: with integrated empty tank control system with safety alarm and key lock. |
| 2 | TRAYS: a series of special baskets allows to house trays, baskets, molds, pastry bags, knives and various other tools inside them |
| 3 | SANIFICATION KIT: for even safer hygiene, the machines can be equipped with an additional chemical SANITIZATION KIT |
| 4 | ROTATING ARMS W ASHING SYS TEM |
| 5 | WHEEL MOUNTING KIT |
| 6 | FAN: a fume extractor, to be positioned on the chimney, controlled by a timer, prevents steam from escaping at the end of the cycle |
| 7 | PUMP : vertical self-draining pumps |

12.2



V LP 650 R
V LP 650 G



V LP 800 G
V LP 800 R
V LP 800 AR



V LP 1000 G
V LP 1000 R



V LP 1300 G
V LP 1300 R
V LP 1300 AG

Items washers with static tray - single door

The **LO series** was created to solve all hygiene and cleaning problems in the food sector, where quick and accurate washing is now an essential quality standard.

The different models allow it to be inserted even in limited spaces, reducing washing costs and ensuring a qualitatively constant hygienic standard. A special washing system with rotating arms in pressed stainless steel, placed both above and below the material to be washed, allows to reach every hidden corner.

In the meat sector, a special **PEAK CONTROL KIT** allows you to keep the **washing temperature constant between 48 ° C and 51 ° C**, necessary for that type of dirt. A circuit dedicated to superheated clean water, distributed by rotating arms, guarantees a deep rinse.

The structure is completely in **AISI/304 stainless steel** in compliance with current regulations.

V LP Series

ITEM WASHERS WITH STATIC TRAY

Modelli V LP

	V LP 650 G	V LP 650 R	V LP 800 G	V LP 800 R	V LP 800 AR	V LP 1000 G	V LP 1000 R	V LP 1300 G	V LP 1300 R	V LP 1300 AG
LENGTH (mm)	690	690	840	840	840	1040	1040	1300	1300	1300
DEPTH (mm)	780	759	923	900	900	923	900	923	900	923
DEPTH WITH OPEN DOOR (mm)	-	1040	-	1240	1430	-	1240	-	1240	-
HEIGHT (mm)	1823	1823	1823	1823	2013	1823	1823	1823	1823	2040
MAX. USABLE INTERNAL MEASURES (mm)	663x660x678									
TRAY MEASURES (mm)	500x500	500x500	650x640	650x640	650x640	850x640	850x640	1050x640	1050x640	1050x640
USABLE HEIGHT WITH TRAY (mm)	648	663	648	663	837	648	663	648	663	837
HEIGHT WITH OPEN DOOR (l)	2474	2071	2474	2071	2245	2474	2071	2474	2071	2857
TANK CAPACITY (l)	45	45	60	60	60	70	70	90	90	90
WATER CONSUMPTION per cycle	4	4	5	5	6	6	6	8	8	10
WASHING PUMP (kW)	2,4	2,4	2,4	2,4	2,4	2,9	2,9	2x2,6	2x2,6	2x2,6
RINSING PUMP (kW)	0,44*	0,44*	0,44*	0,44*	0,44	0,44*	0,44*	0,75*	0,75*	0,75
TANK COIL (kW)	4	4	4	4	4	6	6	12	12	12
BOILER COIL (kW)	4	4	4	4	4	6	6	12	12	12
BOILER CAPACITY (l)	9	9	9	9	9	11	11	25	25	25
TOTAL ABSORPTION (kW)	6,4	6,4	6,4	6,4	6,4	8,9	8,9	17,2	17,2	17,2
CHIMNEY (ø mm)	210	210	210	210	210	210	210	260	260	260
WATER IN-LET (pollici)	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M
WATER OUT-LET (pollici)	1"½ M	1"½ M	1"½ M	1"½ M	1"½ M	1"½ M	1"½ M	1"½ M	1"½ M	1"½ M
POWER SUPPLY	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ	400 V/50 HZ
Controls voltage	8	8	8	8	8	8	8	8	8	8
WATER SUPPLY (°C)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
WEIGHT (kg)	160	150	225	215	228	270	259	281	268	300
SOUND LEVEL - (dB)	68	68	68	68	68	68	68	70	70	70

Available optionals

- Timed steam-aspirator: 0,18 (kW)
- Rinsing pump* (refer to table)
- Sanification kit
- Washing temperature peak control kit
- External shower
- Detergent doser
- Empty tank acoustic signal
- Insulation
- Coil release system for overloads
- Assembly on wheels

12.2

Optional accessories



- | | |
|---|--|
| 1 | SHOWER: an external shower with dispensing gun allows daily cleaning of the machine. |
| 2 | DETERGENT TANK HOLDER |
| 3 | EMPTY TANK CONTROL SYSTEM WITH ACOUSTIC ALARM |
| 4 | TRAYS: a series of special baskets allows them to house trays, baskets, molds, pastry bags, knives and various other tools |
| 5 | SANIFICATION KIT: for even safer hygiene, the machines can be equipped with an additional chemical SANITIZATION KIT. |
| 6 | ROTATING ARMS WASHING SYSTEM |
| 7 | WHEEL ASSEMBLY KIT |
| 8 | FAN: a fume extractor, to be positioned on the chimney, controlled by a timer, prevents steam from escaping at the end of the cycle. |
| 9 | PUMP: vertical self-draining pumps. |

12.3



V-LP 1000



V-LCF 1500 3P

Containers washers with mobile tray - 3 doors

The **3P versions** were created to solve all the problems related to the need for a large production in a small space, the side loading system with baskets on wheels allows to reduce the dead times of loading and unloading, in all sectors of use.

The large baskets can hold up to 42 plates per load or 16/32 CPC series knife racks, 12 600x400 trays and pots of various sizes.

If the problem to be solved is that of a restaurant, the same machine, in the " Double ", that is, with the possibility of using two different pump powers, it can be chosen as a dishwasher, using the lower power or a pot washer with the upper one. Thanks to its versatility, this machine can be used in all sectors, including food industry.

Versatile, efficient, large capacity, available with automatic disinfection and Double system for washing dishes and pots.



V 3P Series

CONTAINER WASHERS WITH MOBILE TRAYPASSANTE - 3 DOORS

12.3

Technical features

	V LP 1000 3P	V LCF 1500 3P
LENGTH (mm)	1140	1650
DEPTH (mm)	870	1070
HEIGHT (mm)	2060	2130
USABLE HEIGHT (mm)	640	700
TRAY MEASURES (mm)	850X640	1330X910
HEIGHT W/ OPEN DOOR(mm)	2600	2850
TABLE MEASURES (mm)	1000	1500
TABLE LENGTH (mm)	670	940
WORK TABLE (mm)	920	970
TANK CAPACITY (l)	70	110
WATER CONSUMPTION (l/h)	60	140
WASHING PUMP (kW)	1,8/2,9	2x2,6
RINSING PUMP (kW)	0,55	0,55

	V LP 1000 3P	V LCF 1500 3P
TANK COIL (kW)	6	12
BOILER COIL (kW)	6	12
BOILER CAPACITY (l)	14	25
TOTAL ELECTRICAL ABSORPTION (kW)	9	17
CHIMNEY (ø mm)	210	260
WATER IN-LET (pollici)	3/4 M	3/4 M
WATER OUT-LET (pollici)	1 1/2 M	2 M
POWER SUPPLY	380V/50Hz	380V/50Hz
AUXILIARY CIRCUIT VOLTAGE (V)	24	24
WATER SUPPLY (°C)	50÷60	50÷60
WEIGHT (kg)	210	370
SOUND LEVEL (dB)	72	72

Available optionals

- Steams aspirator
- Steams aspirators timer
- Sanification kit
- Washing temperature peak control kit
- External shower
- Detergent doser
- Empty tank acoustic signal
- Washing temperature peak control kit
- Assembly on wheels

12.4



Tunnel containers washer

The **V BN & V BC models** are tunnels for washing continuous belt crates and washes from 280 - 420 crates now in the 4K version. It is made with entrance from the right and can be equipped with a blower and a roof loading system for use with only one operator. This model is also equipped with a micro economizer for the rinse water and a safety clutch on the transport. Rinsing up to 85 ° C. On this model you can use the rotating washing system which improves the washing efficiency by increasing the contact of water on the material to be washed. The **V BN and V BC models** in their versions with electric heating "E" and with low pressure steam heating "V" represents the solution in terms of productivity, space and price.

Completely built in **AISI / 304 stainless steel** with removable quick-coupling pipes, continuous transport with plastic chains and double feed speed allows effective treatment of all equipment used in the food sector. These models can be equipped with a blowing module to reduce water residues on the washed material, reducing reuse times. On request, this model can be equipped with special belts for washing particular equipment such as ice cream cups and utensils.

To reduce labor costs, the models can be equipped with a roller table for returning to the operator or with loading from the roof that allows them to be used by a single operator.

V BN & V BC TUNNEL CONTAINERS WASHERS

12.4

Technical features

	V BN 29 C 4K 2 DX	V BC 29 C 2	V BC 29 CR 2
LENGTH (mm)	3000	1500	1500
DEPTH (mm)	6857	760	760
HEIGHT (mm)	1660	1450	1450
USABLE TUNNEL MEASURES (mm)	620x457	510X420	510X420
TANK CAPACITY (l)	110	47	47
WATER CONSUMPTION (l/h)	100-400	60-150	60-150
WASHING PUMP (kW))	4	2,4	2,4
BOILER CAPACITY - (l)	25	23	23
WATER IN-LET	¾"	¾"	¾"
WATER OUT-LET	2"	1 ½"	1 ½"
CONTROLS VOLTAGE (V)	8	8	8
WATER SUPPLY (°C)	50-60	50-60	50-60
BELT GEAR MOTOR (kW)	0,18-0,11	0,18- (0,22)	0,18-(0,22)
DOUBLE TAPE SPEED (mt./min.)	1,9-2,8	-	-
WEIGHT (kg)	500	280-340	280-340
POWER SUPPLY (V)	400/50	400/50	400/50

“E”- Electrical heating version

	V BN 29 C 4K 2 DX	V BC 29 C 2	V BC 29 CR 2
TANK COIL	12	6	6
BOILER COIL	12	12	12
TOTAL ABSORPTION (KW)	28,2	20,7	20,7

“V”- 2 Bar low pressure steam heating version

	V BN 29 C 4K 2 DX	V BC 29 C 2	V BC 29 CR 2
TOTAL ABSORPTION (kW)	4,2	2,7	2,7
STEAM CONSUMPTION (KG/H)	40	25	25

12.4

Available optionals

- Integrated aspirators with chimeys
- Smoke aspirators
- Rotating reels
- Rod tape
- Centralized aspirators with chimney
- Detergent doser
- Disinfectant doser
- Special tapes on request

Washing tunnels

12.5



V LCT 37 7K 2 DX



V LCT 42 90 SX
V LCT 42 110 SX

The **V LCT series**, in the vast range of washing systems manufactured, represents the smallest automated tunnel, with industrial performance.

Completely built in stainless steel, in the versions with electric or low pressure steam heating, it allows a continuous treatment of all containers and equipment used in the food sector, thanks to its particular conveyor belt. In addition to the washing and rinsing areas, the LCT can be equipped with the disinfection area and the additional module of mm. 1000 blowing model SOFP, which adds to perfect hygiene a greater speed of storage or reuse.

The two versions / 90 and / 110 allow you to wash on one or more tracks or to wash bulky material such as pallets. The washing systems that can be installed in these models are, depending on the needs, with fixed nozzles or rotating arms, the latter is used to obtain total coverage of the washing on the entire conveyor belt, very useful for cleaning small molds. or of material with particular shapes, difficult to reach from fixed pipes.

**V LCT 37
& 42 Series**
**WASHING
TUNNEL**

Washing tunnels

12.5

Technical features

V LCT 37 7K 2 DX	
LENGTH (mm)	3700
DEPTH (mm)	957
HEIGHT (mm)	1762
USABLE TUNNEL MEASURES (mm)	720x510
TANK CAPACITY (l)	167
WATER CONSUMPTION (l/h)	100-400
WASHING PUMP - (kW))	7,5
BOILER CAPACITY - (l)	25
WATER IN-LET	¾"
WATER OUT-LET	2"
CONTROLS VOLTAGE (V)	4
WATER SUPPLY (°C)	50-60
GEAR BELT MOTOR (kW)	0,18-0,11
DOUBLE BELT SPEED (mt./min.)	2,7-4
BLOWING FAN (kW)	11
WEIGHT	2"
POWER SUPPLY (V)	4

	V LCT 42/90	V LCT 42/110
LENGTH (mm)	4200	4200
DEPTH (mm)	900	1100
HEIGHT (mm)	1460	1460
USABLE HEIGHT (mm)	480	480
TUNNEL OPENING (mm)	700x480	900x480
HEIGHT WITH OPEN DOOR (mm)	2160	2160
TABLES LENGTH (mm) ATI/ATU	1000	1000
HEIGHT WITH EXTRACTORS (mm)	1900	1900
POWER SUPPLY	400 V/50Hz	400 V/50Hz
AUXILIARY TENSION (V)	24	24
MAIN STEAM PRESSURE (bar)	2	2
STEAM IN-LET (pollici)	2 M	2 M
WATER IN-LET (pollici)	3/4 M	3/4 M
WATER OUT-LET (pollici)	2 M	2 M
WATER SUPPLY (°C)	50	50
TOT. STEAM CONSUMPTION (Kg/h)**	80	85
"E" VERSION TOTAL ABSORPTION (kW)	50	50
"V" VERSION TOTAL ABSORPTION (kW)	8	8
GEAR BELT MOTOR (kW)	0,22	0,22
TAPE SPEED (mt/min.)	1,5-2,6	1,5-2,6
WEIGHT (kg)	800	900
SOUND LEVEL (dB)	74	74
PLASTIC TAPE	✓	✓
INVERTER TAPE SPEED	✓	✓

Electric heating version "E"-

V LCT 37 7K 2 DX	
TANK COIL (kW)	18
BOILER COIL (kW)	12
TOTAL ABSORPTION (kW)	18

Low pressure steam heating version 2 BAR

V LCT 37 7K 2 DX	
TOTAL ABSORPTION (kW)	8
STEAM CONSUMPTION (KG/H)	50
STEAM IN-LET	¾"
CONDENSATE RECOVER	½"

* Only "E" electric version / ** Only "V" steam version

Washing tunnels

12.5

Available optionals



Tipper



Washing rotating arms



Presser

12.6



Rotating washing cabin for large quantities and volumes

The **V BFF model**, like all the models in the BOX range, has been designed for washing bulky material or, using special trolleys, large quantities of production equipment.

Its system of rotating arms, positioned on the side walls, allows effective washing of any type of material. In compliance with the new regulations, the XL model is equipped with: Stainless steel pump mounted vertically (to avoid stagnation of dirty water after the discharge); Construction completely in **Aisi / 304 stainless steel** with double carpentry and insulation in the cavity for energy saving and noise pollution abatement; A timer system to control the washing and rinsing time; A particular cabinet structure with hinged doors, positioned on the right side with a locking key, to enclose all the services including any detergent, disinfectant dispensers and relative tanks.

This model can be equipped with:

- Automatic sanitization kit;
- Temperature peaks control kit (for the butchery sector)
- Pickling cycle (for oven trolleys)



Possibility of installation in pit or with access via ramps



Rotating washing cabin for large quantities and volumes

12.6

Technical features

V BFF 1260	
LENTGH (mm)	2061
DEPTH (mm)	1460
HEIGHT (mm)	2750
USABLE TUNNEL MEASURES (mm)	1050x2000x1270
TANK CAPACITY (l)	190
WATER CONSUMPTION (l/h)	100 - 300
WASHING PUMP - (kW)	5,5
RINSING PUMP (kW)	1,32
BOILER CAPACITY (lt)	22
WATER IN-LET	1"
WATER OUT-LET	2"
AUXILIARY VOLTAGE	24 V
WATER SUPPLY	190

Electric heating version "E"-

V BFF 1260	
RESISTENZA VASCA (kW)	12
RESISTENZA BOILER (kW)	12

Low pressure steam heating version 2 BAR

V LCT 37 7K 2 DX	
TOTAL ABSORPTION (kW)	6
STEAM CONSUMPTION (KG/H)	70

12.6

Technical features

	V BFF 1500	V BFF 1800	V BFF 2000	V BFF 2200
LENGTH (mm)	2100	2350	2550	2750
LENGTH WITH BLOWING UNITY (mm)	2900	3150	3350	3550
MAX DEPTH - THROUGH VERSION WITH SLIDING DOORS (mm)	1740	2020	2240	2440
WIDTH WITH OPEN SERVICE DOOR (mm)	2914	3200	3580	3870
DEPTH WITH OPEN DOOR - (mm)	2840	3360	3580	4000
HEIGHT (mm)	3309	3309	3309	3309
PIT DEPTH FOR INSERTION (mm)	520	520	520	520
USABLE DOOR HEIGHT (mm)	2120	2120	2120	2120
USABLE DOOR LENGTH (mm)	900	1150	1200	1400
USABLE STANDARD DOOR LENGTH (mm)	1100	1300	1400	1600
MAX. PLATFORM DIAMETER (mm)	1340	1640	1840	2040
SECURITY CAGE DIMENSIONS (mm)	870x1000	870x1400	870x1600	870x1700
TANK CAPACITY (l)	500	700	1000	1100
RINSING TANK CAPACITY (l)	100	100	100	100
WASHING PUMP (kW)	7,5	11	11	11
RINSING PUMP (kW)	1,5	1,5	1,5	1,5
ROTATING TABLE GEAR MOTOR SPIN DRY SYSTEM (kW)	0,75	0,75	0,75	0,75
ROTATING TABLE GEAR MOTOR (kW)	0,55	0,55	0,55	0,55
DRYING PUMPS (kW)	22	22	22	22
WATER SUPPLY TEMPERATURE (°C)	50÷60	50÷60	50÷60	50÷60
WATER LOADING CONNECTION (pollici)	1,1/2	1,1/2	1,1/2	1,1/2
WATER OUT-LET (pollici)	2	2	2	2
SMOKE ASPIRATOR (kW)	0,75	0,75	0,75	0,75
EXTRACTOR CHIMNEY (ø mm)	370	370	370	370
WATER CONSUMPTION - (l/ciclo - Min/Max)	10/30	12/40	12/40	15/40
POWER SUPPLY (R+S+T+N+T)	400V/50Hz	400V/50Hz	400V/50Hz	400V/50Hz
AUXILIARY VOLTAGE (V)	24	24	24	24
SOUND LEVEL (dB)	70	72	72	72
SOUND LEVEL WITH BLOWING UNIT (dB)	75	75	75	75
WEIGHT - (kg)	1000	1400	1800	2200
WEIGHT WITH BLOWING UNIT- (kg)	1500	2000	2500	3000
DOUBLE INSULATED WALL	✓	✓	✓	✓
SIDE SERVICE COMPARTMENT	✓	✓	✓	✓
PLATFORM ROTATION INVERTER	✓	✓	✓	✓

12.6

Electric heating version “E”

	V BFF 1500	V BFF 1800	V BFF 2000	V BFF 2200
TANK COIL (kW)	24	24	24	36
RINSING BOILER COIL (kW)	24	24	24	36
TOTAL ABSORPTION (kW)	32	36	36	48
DRYING UNIT (kW)	58	58	58	58
TOTAL ABSORPTION WITH DRYING UNIT (kW)	84	84	84	84

Low pressure steam heating version 2 BAR “V”

	V BFF 1500	V BFF 1800	V BFF 2000	V BFF 2200
TOTAL STEAM CONSUMPTION	40	55	60	65
DRYING UNIT (kW)	22	22	22	22
TOTAL ABSORPTION WITH DRYING UNIT (kW)	24	24	24	24
TOTAL STEAM CONSUMPTION WITH DRYING UNIT (kg/h)	80	95	100	110
STAINLESS STEEL RINSING EXCHANGER	✓	✓	✓	✓
STAINLESS STEEL TANK COIL	✓	✓	✓	✓

Available optionals

(Models V BFF 1500/1800/2000/2200)

- Pickling cycle
- Sanification kit
- Detergent doser
- Automatic filter
- Passing doors
- sliding doors
- Blowing unit
- Drying unit

HYGENIC STATIONS

Hygienic solutions for the production areas

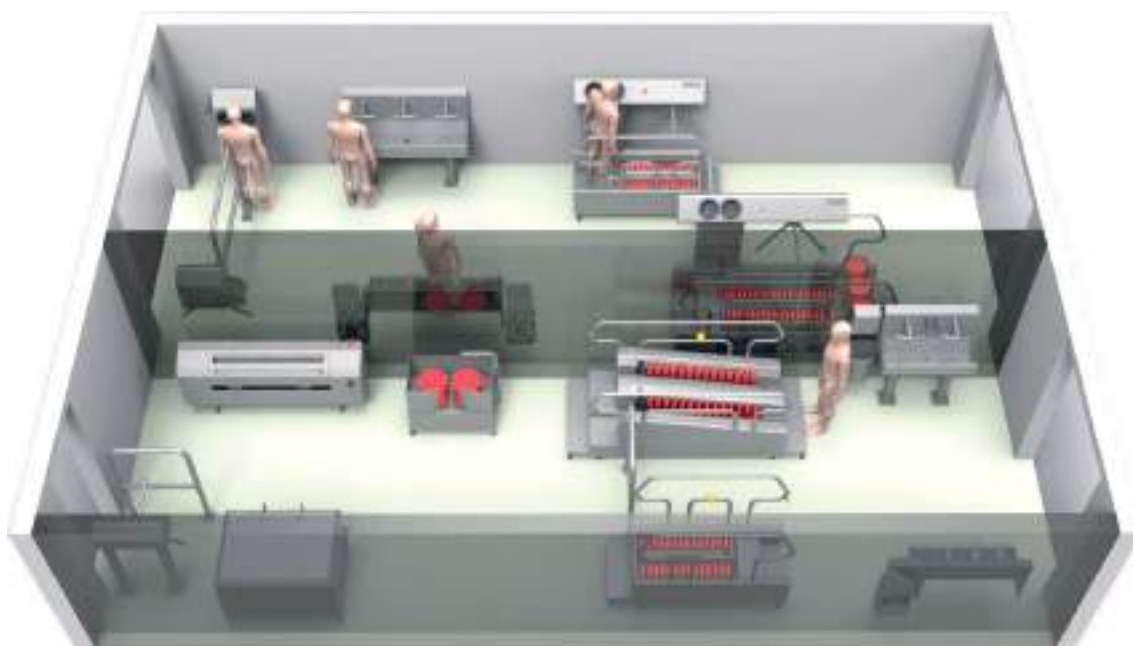
13.1

When it comes to **health** and **safety**, **hygiene standards are not negotiable**. In this chapter you will find the perfect answer for all production areas where the risk of contamination represents a great danger to the business, for example in the **food processing sector**.

Thanks to these equipment it is in fact possible to minimize the risk of contaminating environments and food in compliance with the hygiene regulations in force (**HACCP, IFS and NSF**). Furthermore, these products not only comply with European standards, but also satisfy all the qualitative demands of the market.

Here are **some features** of these equipment:

- Made of stainless steel DIN 1.4301 (Aisi / 304);
- Compliance with the CE regulations in force and the relative quality standards;
- "Plug and play" principle • IP65 protections;
- Convenient and simple cleaning;
- Low operating and maintenance costs;
- High level of hygiene in compliance with HACCP, IFS and NSF regulations • Designed to avoid any stagnation of water and therefore the proliferation of legionella;
- Quick and efficient use;
- Ergonomic design.



Sole cleaner with manual functioning

13.1

SR S



The structure, made entirely of heavy-gauge **AISI 304** stainless steel, together with the use of top-quality components designed for easy and quick maintenance, makes this Sole Washer the perfect solution for **any production department** where the cleaning and sanitizing of footwear is essential — especially during staff entry and exit from processing areas.

The operation is extremely simple and intuitive: it can be activated simply by pressing a button, which not only allows the user to adjust the cleaning process according to the level of dirt but also optimizes machine usage by activating it only when necessary.

Technical features

Model	2550/501 40.6091.00	2550/502 40.5398.00
DIMENSIONS (LxHxP) mm	534x1220x610	550x1157x610
ARRANGEMENT	Floor	Wall
HORIZONTAL BRUSHES (Ø) mm	200x370 mm	200x370 mm
VOLTAGE	3x400V/50Hz	3x400V/50Hz
POWER SUPPLY	0,23 Kw	0,23 Kw
WATER IN-LET	R ¾"	R ¾"
WATER OUT-LET	DN 50	DN 50

Footwear cleaner with manual functioning

13.2

SR N



The structure, made entirely of heavy-gauge **AISI 304** stainless steel, and the use of top-quality components designed for easy and quick maintenance, make this shoe washer the perfect solution for **any production department** where footwear cleaning and sanitization are essential – especially during staff entry and exit from processing areas.

The operation is extremely simple and intuitive: it can be activated simply by pressing a button, which not only allows the user to adjust the cleaning process according to the level of dirt but also optimizes the **machine's energy consumption** by activating it only when necessary.

Technical features

Model	S550/507-005 40.6092.00	2550/507 40.4289.00
DIMENSIONS (LxHxP) mm	676x1200x377	676x1047x370
ARRANGEMENT	Floor	Wall
HORIZONTAL BRUSHES (Ø) mm	280x367	280x367
VOLTAGE	3 x 400V/50Hz	3 x 400V/50Hz
POWER SUPPLY	0,23 Kw	0,23 Kw
WATER IN-LET	R ¾"	R ¾"
WATER OUT-LET	DN 50	DN 50

13.3

SR V



Boot cleaner with manual functioning - vertical and horizontal brushes

This **Boot Washer** is an ideal solution for all those places where the cleaning of footwear is a fundamental requirement. It can be activated manually via a button and not only allows the operator to manage the cleaning independently and according to the level of dirt, but also to optimize the energy consumption of the machine by activating it only when necessary.

Here are some of the product's features:

- A horizontal brush for cleaning the soles;
- Two vertical brushes for cleaning both sides of the boots;
- Activation via push button.

Technical features

Model	2550/503 40.6444.00
DIMENSIONS (LxHxP) mm	990x1370x775
ARRANGEMENT	A terra
HORIZONTAL BRUSHES (Ø) mm	200x465
VERTICAL BRUSHES (Ø) mm	200x320
VOLTAGE	3 x 400V/50Hz
POWER SUPPLY	0,75 Kw
WATER IN-LET	R ¾"
WATER OUT-LET	DN 50

13.4



DR

Footwear cleaning unit with rotating brushes

The “**DR**” line guarantees fast and efficient cleaning of footwear both in and out of the production department. Thanks to their efficiency, ease of use and speed, they allow significant savings in terms of time and costs, making them ideal for any activity that seeks an optimal solution in terms of hygiene standards.

This type of machinery is particularly suitable in situations where the sanitation of footwear is a fundamental requirement and where there is a continuous access and exit phase.

Here are some features of the product:

- Brushes easy to replace even without tools
- Automatic dosing of the sanitizer
- Hygienic design with smooth surface finishes
- Adjustable height

Models with vertical brushes positioned at the end of the stroke are also available, for more information DR contact our sales department.

Technical features

Model	DR 1000 2550/402 40.6353.00	DR 1400 2550/404 40.6439.00	DR 1800 2550/406 40.6440.00	DR 2300 2550/408 40.6441.00	DR1400 2550/410- V70 40.6442.00	DR 1400 2550/411-V300 40.6443.00
DIMENSIONS (LxHxP) mm	1810x1430x750	2185x1430x750	2590x1430x750	3115x1430x750	2600x1420x1066	2600x1420x1066
HORIZONTAL BRUSHES (Ø) mm	190x1020	190x1400	190x1800	190x2327	190x1340	190x1340
VERTICAL BRUSHES (Ø) mm	/	/	/	/	250x70	250x300
VOLTAGE	3x400V/50Hz	3x400V/50Hz	3x400V/50Hz	3x400V/50Hz	3x400V/50Hz	3x400V/50Hz
POWER SUPPLY	0,7 Kw	0,7 Kw	0,7 Kw	0,7 Kw	0,7 Kw	0,7 Kw
WATER IN-LET	R ¾"	R ¾"	R ¾"	R ¾"	R ¾"	R ¾"
WATER OUT-LET	DN 50	DN 50	DN 50	DN 50	DN 50	DN 50

Brushes for models 2550/410-V70 e 2550/411-V300



**Vertical Brushes
70 mm (H)**



**Vertical Brushes
300 mm (H)**

13.5



URK W



HC XL

Hygienic barrier with turnstile footwear and hands sanitizing unit

With a single lane, the **Hygienic barriers** of the **URK line** are an optimal solution for all production lines that have to operate in confined spaces.

The high frequency of access of these stations allows access to the entry point for **10-15 people in one minute** (5 seconds per person) and, moreover, being particularly efficient and easy to use, they allow a reduction in costs on hygienic cycles and excellent performance in terms of personal hygiene.

Here are some features depending on the model:

- Automatic hand washing unit
- Shoe washing brushes on the aisle
- Access via turnstile
- Vertical brushes positioned at the end of the stroke

URK-URK W

FOOTWEAR-HANDS SANITIZING BARRIER

Hygienic barrier with turnstile footwear and hands sanitizing unit

13.5

Technical features

URK

Model	2550/251 40.6086.00 (SX) 40.5688.00 (DX)	2550/257-V70 40.6445.00 (SX)	2550/257-001 40.6446.00 (SX)
DIMENSIONS (LxHxP) mm	1810x1610x970	2605x1610x1260	2605x1610x1260
HORIZONTAL BRUSHES (Ø) mm	190x1020	190x1340	190x1340
VERTICAL BRUSHES (Ø) mm	/	250x70	250x300
VOLTAGE	3x400V/50Hz	3x400V/50Hz	3 x 400V/50Hz
POWER SUPPLY	0,7 Kw	1,3 Kw	1,3 Kw
WATER IN-LET	R ¾"	R ¾"	R ¾"
WATER OUT-LET	DN 50	DN 50	DN 50

URK W

Model	2550/253 40.6447.00 (SX)	2550/254 40.6448.00 (DX)	2550/256-003 40.6449.00 (SX)	2550/256-V300 40.6450.00 (SX)
DIMENSIONS (LxHxP) mm	2590x1610x970	2590x1610x970	2605x1610x1285	2605x1610x1285
HORIZONTAL BRUSHES (Ø) mm	190x1800	190x1800	190x1340	190x1340
VERTICAL BRUSHES (Ø) mm	/	/	250x70	250x300
VOLTAGE	3x400V/50Hz	3x400V/50Hz	3x400V/50Hz	3x400V/50Hz
POWER SUPPLY	0,7 Kw	0,7 Kw	0,7 Kw	0,7 Kw
WATER IN-LET	R ¾"	R ¾"	R ¾"	R ¾"
WATER OUT-LET	DN 50	DN 50	DN 50	DN 50

HC XL

Model	2550/104 40.6451.00	2550/104-026 40.6452.00	2550/104-027 40.6453.00
DIMENSIONS (LxHxP) mm	2000x1500x1650	2000x1500x1650	2000x1500x1650
HORIZONTAL BRUSHES (Ø) mm	190x1178	190x1178	190x1178
VERTICAL BRUSHES (Ø) mm	/	250x70	250x300
VOLTAGE	3x400V/50Hz	3x400V/50Hz	3x400V/50Hz
POWER SUPPLY	0,7 Kw	1,3 Kw	1,3 Kw
WATER IN-LET	R ¾"	R ¾"	R ¾"
WATER OUT-LET	DN 50	DN 50	DN 50

Brushes for models 2550/410-V70 e 2550/411-V300



Vertical Brushes
70 mm (H)



Vertical Brushes
300 mm (H)

Turnstile with various enter/exit functions

13.6

With a variety of **turnstile enter/exit functions**, this turnstile is a perfect solution for ensuring a controlled passage of the personnel to the production or other restricted area. Being compact in design made entirely of stainless steel, it ensures long-term sustainability.



Technical features

Models	2550/620-xxx	2550/630-xxx
	40.6088.00 (SX) 40.6087.00 (DX)	40.6090.00 (SX) 40.6089.00 (DX)
DIMENSIONS (LxHxP) mm - Mechanical configuration	810x750x880	810x750x880
ARRANGEMENT	Wall	Floor

-xxx: Different enter/exit configurations available

Available configurations

CONFIGURATION	FUNCTIONS	INSTALLATION
A 1 B 2	Always open at entrance, always closed at exit	Left/Right
A 1 B 3	Always open at entrance, electrically controlled at exit	Left/Right
A 2 B 1	Always closed at entrance, always open at exit	Left/Right
A 2 B 3	Always closed at entrance, electrically controlled at exit	Left/Right
A 3 B 1	Electrically controlled at entrance, always open at exit	Left/Right
A 3 B 2	Electrically controlled at entrance, always closed at exit	Left/Right
A 3 B 3	Electrically controlled both at entrance and exit	Left/Right

1 - Always open; 2 - Always closed; 3 - Electrically controlled; A - Enter;
B - Exit.

13.6



(SX VERSION)

Turnstile with hands disinfection unit

This **Turnstile with hands disinfection unit** guarantees uncompromising hand hygiene of the personnel before entering the production area. Providing an automatic dosage of soap and sanitizer, released only after one places both hands inside the automated hand disinfection unit, it ensures sufficient and total hand cleaning. The turnstile is released only after

the cleaning agent application is completed:

- **Model HDK DF**
Floor-mounted, sanitizer
- **Model HDK SF**
Floor-mounted, soap
- **Model HDK DP**
Wall-mounted, sanitizer
- **Model HDK SP**
Wall-mounted, soap

Technical features

CONFIGURATION	HDK DF 40.6454.00 (SX) 40.6455.00 (DX)	HDK SF 40.6456.00 (SX) 40.5642.00 (DX)	HDK DP 40.6457.00 (SX) 40.6458.00 (DX)	HDK SP 40.6459.00 (SX) 40.6460.00 (DX)
DIMENSIONS (LxHxP) mm	810x1440x815	810x1440x815	810x1038x815	810x815x1038
ARRANGEMENT	Floor	Floor	Wall	Wall
CLEANING AGENT	Sanitizer	Soap	Sanitizer	Soap
VOLTAGE	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
POWER SUPPLY	0,1 Kw	0,1 Kw	0,1 Kw	0,1 Kw
VERSION SX CODE	2550-356	2550-354	2550-355	2550-353
DX VERSION CODE	2550-356-001	2550-354-001	2550-355-001	2550-353-003

Single and multistation stainless steel washbasins

13.7

BW



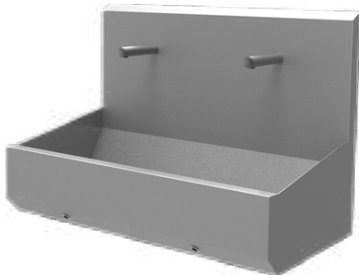
These **Washbasins** provide efficient hand washing and ensure proper sanitation. **Entirely made of stainless steel**, including the integrated tap, they are the ideal solution for any reality looking for the highest hygienic standards.

The range includes a wide variety of functions. Depending on the number of staff, not only is it possible to choose between single-station or multistation sinks that can be wall-mounted or floor-standing, but also between sensor or "knee" operation methods. accessories to complete the gilding.

Here are some of the product's features:

- Delivery ready-for-installation
- Water mixing valve (from 35 ° C to 65 ° C)
- Pressure regulating valve between hot and cold water

WRK



WRF



WRD



BW-WRF/WRK
MULTISTATION
STAINLESS-STEEL
WASHBASINS

Single and multistation stainless steel washbasins

13.7

Technical features

BW Version

CONFIGURATION	2520/131 40.6434.00	2520/132 40.4233.00	2520/137 40.6435.00	2520/136 40.4292.00
DIMENSIONS (LxHxP) mm	500x685x450	500x685x450	500x1305x450	500x1305x450
INTERNAL DIMENSIONS (LxHxP) mm	420x150x340	420x150x340	420x150x340	420x150x340
ARRANGEMENT	Wall	Wall	Floor	Floor
FUNCTIONING	Sensor	Knee	Sensor	Knee

WRK Version

CONFIGURATION	2520/151	2530/022 40.6436.00	2530/038	2520/150	2530/021 40.6461.00	2530/037
DIMENSIONS (LxHxP) mm	500x666x535	1000x666x535	1500x666x535	500x666x535	1000x666x535	1500x666x535
N° WASHING PLACES	1	2	3	1	2	3
MATERIAL	S/Steel	S/Steel	S/Steel	S/Steel	S/Steel	S/Steel
ARRANGEMENT	Wall	Wall	Wall	Wall	Wall	Wall
FUNCTIONING	Knee	Knee	Knee	Sensor	Sensor	Sensor

WRF Version

CONFIGURATION	2520/153	2530/024	2530/040	2520/152	2530/023	2530/039
DIMENSIONS (LxHxP) mm	500x1347x535	1000x1347x535	1500x1347x535	500x1347x535	1000x1347x535	1500x1347x535
N° WASHING PLACES	1	2	3	1	2	3
MATERIAL	S/Steel	S/Steel	S/Steel	S/Steel	S/Steel	S/Steel
ARRANGEMENT	Floor	Floor	Floor	Floor	Floor	Floor
FUNCTIONING	Knee	Knee	Knee	Sensor	Sensor	Sensor

Knee or sensor functioning

WRD Version

CONFIGURATION	2530/372	2530/388	2530/404	2530/371	2530/387	2530/403
DIMENSIONS (LxHxP) mm	1000x1347x1070	1500x1347x1070	2000x1347x1070	1000x1347x1070	1500x1347x1070	2000x1347x1070
N° WASHING PLACES	4	6	8	4	6	8
MATERIAL	S/Steel	S/Steel	S/Steel	S/Steel	S/Steel	S/Steel
ARRANGEMENT	Floor	Floor	Floor	Floor	Floor	Floor
FUNCTIONING	Knee	Knee	Knee	Sensor	Sensor	Sensor

Knee or sensor functioning

Knives and cutting tool sterilization

13.8

These equipments allow you to effectively **sanitize knives**, small axes and saws by supplying hot water (65-110 °C). For this reason, these devices are essential in all those production departments where cutting objects are used

MB/BB



MBS



Technical features

MB/BB

CONFIGURATION	2510/030-001 40.6437.00	2510/908 40.6438.00
DIMENSIONS (LxHxP) mm	250x490x230	425x730x265
STERILIZATION DEPTH (mm)	200 mm (5 Knives)	470 mm (10 Knives)
VOLTAGE	230V/50Hz	230V/50Hz
POWER SUPPLY	1 Kw	1 Kw
OVERFLOW PIPE Ø	25 mm	25 mm
WATER CONNECTION Ø	10 mm	10 mm

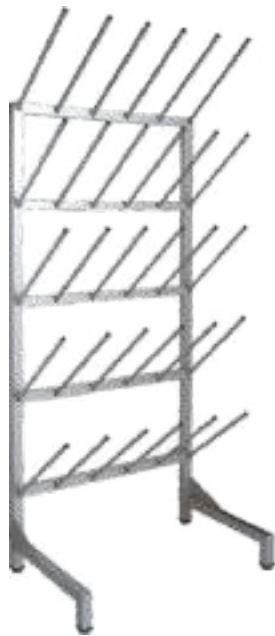
MBS

CONFIGURATION	2510/015 40.6118.00	2510/035 40.6119.00
DIMENSIONS (LxHxP) mm	224x800x660	224x800x790
STERILIZATION DEPTH (mm)	273 mm (15 Knives)	473 mm (30 Knives)
VOLTAGE	230V/50Hz	230V/50Hz
POWER SUPPLY	3 Kw	3 Kw
OVERFLOW PIPE Ø	R ½"	R ½"
WATER CONNECTION Ø	R ¾"	R ¾"

Door boots with drying single or double

13.9

STT



These **boot dryers** are specially designed for housing, drying and sanitizing of all types of boots and shoes. Thanks to this structure it is in fact possible to eliminate the most stubborn dirt residues and unpleasant odors, leaving the shoes comfortable, functional and ready for professional use.

The **STT model** can accommodate up to 40 pairs of boots or other footwear, depending on the model. In the double-sided version, the structure can house 40 to 80 pairs of boots.

Here are some features of the product:

- Drying with heated air
- Round tube supports (Ø 15 mm)
- Electronically adjustable drying time
- Up to 8 optimal drying cycles per day

Technical features

STT Version

CONFIGURATION	1085/010 40.6112.00	1085/015 40.4206.00	1085/020 40.6113.00	1085/025	1085/030 40.6114.00	1085/040
DIMENSIONS (LxHxP) mm	520x2100x700	840x2100x700	1160x2100x700	1480x2100x700	1800x2100x700	2440x2100x700
N° OF PAIRS	10	15	20	25	30	40
MATERIAL	S/Steel	S/Steel	S/Steel	S/Steel	S/Steel	S/Steel

Clothes and shoes wardrobe with ventholes and door lock

13.10

These cabinets, made entirely of **AISI 304** stainless steel, offer a convenient and safe solution for storing clothes and footwear. With a separate section for clean and dirty garments and integrated fans to ensure proper air circulation, this product provides a practical solution for any production department. The 150 mm adjustable legs ensure stability on any surface. Each cabinet is equipped with a **sloping roof** to prevent dust accumulation and **perforated doors** with lock, allowing the safe storage of all garments.

Models and Options:

- Available in different sizes and door combinations
- Wing knob with padlock (instead of key lock)
- Perforated doors (10×10 mm)
- Bench
- 700 mm (H) legs



WI

Technical features

CONFIGURATION	9405/100	9045/104	9045/108	9045/112
DIMENSIONS (LxHxP) mm	500x2160x500	500x2160x500	950x2160x500	950x2160x500
N° OF DOORS	1	2	3	4

Lockers for clothing and cleaning equipment

13.11

LC



This **locker** is designed for convenient and safe storage of cleaning agents and cleaning equipment.

It consist of a dustproof sloping top, four adjustable shelves and an additional, wider compartment for broom storage.

While the ventholes take care of proper ventilation, adjustable legs of 150 mm in height ensure stability on uneven surfaces. It has a key lock handle to keep the items safe.

Technical features

CONFIGURATION	9045/026	9045/027
DIMENSIONS (LxHxP) mm	500x2160x500	950x2160x500
N° OF DOORS	1	2

General sales terms

Object of the sale: The supply includes the items specifically indicated in the order confirmation. Illustrations and data in catalogues and price lists are indicative only. The seller may introduce modifications without warning.

Delivery

Delivery dates are indicative only and not binding. Possible or partial delivery does not entitle the buyer to cancel the order, claim for direct or indirect damages, or delay payment for supplies already delivered beyond the agreed payment date.

Transport

Goods always travel at the risk and danger of the buyer, whatever the delivery conditions.

Payments

Payments must be made in the place the invoice was issued and in respect of the terms specified on the invoice, irrespective of any dispute underway. After the established due date, bank interest will be charged, together with reimbursement of possible higher costs. For deliveries worth a gross amount of less than €300.001 consignment is exclusively cash on delivery. Failure to observe the payment terms entitles the seller to suspend fulfilment of new orders.

Prices

Prices are ex-factory and do not include VAT, stamp duty, taxes and post and packing charges. List prices are not binding and can be varied according to raw materials and labour costs. We therefore reserve the right to modify the prices even without notice except for orders accepted and / or still to be processed. For this reason, any offer is to be considered relevant to the time of its drafting, and its validity is directly related to the trend in costs for raw materials. We therefore reserve the right to validate backdated offers only after a prior contact with our sales department.

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