



RANGE of MACHINES

CLEANING - DECONTAMINATION - HIGH-PRESSURE

CLEANING - DECONTAMINATION - HIGH-PRESSURE



FRENCH SOCIETY



PRODUCTS CATALOGUE



PHARMACEUTICAL COSMETIC MEDICAL

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1 INSIDE STATION DRUM WASHER

Internal washer for drums and containers from 30L to 220L with a high-pressure rotating head



KEY POINTS	
	Internal washer of drums from 30L to 220L with a high-pressure 360° rotating head that strikes the interior surfaces of each drum.
	304L stainless steel frame and wash chamber with slopes to ensure efficient gravity flow during washing.
	Ergonomically designed surface and rollers for easy insertion and removal of large diameter drums. A support chair is provided for smaller diameter drums.
	Piping and components in contact with wash water in brass and stainless steel, or all stainless steel depending on finish. Respect for slopes to guarantee gravity flow.
	Injection of product by metering pump. Integrated contact time (except LF-E).
	4 possible options: sealing door, compressed air purge, injection of 1 additional product, stainless steel 316L.

TECHNICAL DETAILS			
Models	LF.E (without options)	LF.S (without options)	LF.P (without options)
Drums	Standard drums 30L to 220L	Standard drums 30L to 220L	Standard drums 30L to 220L
Number of utilities	1	2	2 of which EPU
Hot water	55°C max	55°C max	55°C max
Power	230V - 50Hz 1,5 kW	400V+N+T – 3 kW	400V+N+T – 3 kW
Dim.(L x l x h)	1400x 750 x 1500mm	1400x 750 x 1500mm	1400x 750 x 1500mm
Flow rate	13 L/min	15 L/min	15 L/min
Pressure	60 bar	80 bar	80 bar
Total weight when loaded	250 Kg	250 Kg	250 Kg
Finish	Entry-level	Standard	Pharmaceutical

Models	LF.E (without options)	LF.S (without options)	LF.P (without options)
Time frame	10 weeks	12 weeks	14 weeks

1 STATION DRUM WASHER INSIDE OUTSIDE

Internal washing of drums by rotary head and external washing by high-pressure booms.
 Type : drums and containers from 30L to 220L.



HIGH PRESSURE

COMPLETE WASH

Models	LF-IE.P (without options)	LF-IE.P+ (without options)
Time frame	12 weeks	14 weeks

KEY POINTS	
	Internal washing of drums from 30L to 220L using a high-pressure 360° rotating head that strikes the internal surfaces of every drum. External washing of drums using high-pressure ramps.
	304L stainless steel frame, wash chamber and process components are sloped to ensure efficient gravity flow during washing.
	Ergonomically designed laying table and rollers for easy insertion and removal of large diameter drums. A support chair is provided for smaller diameter drums.
	Piping and components in contact with wash water in brass and stainless steel, or all stainless steel depending on finish. Respect for slopes to guarantee gravity flow.
	Detergent injection by metering pump. Integrated contact time.
	3 possible options: compressed air purge, 1 additional product injection, 316L stainless steel sheet metal.

TECHNICAL DETAILS		
Models	LF-IE.P (without options)	LF-IE.P+ (without options)
Drums	Standard drums 30L to 220L	Standard drums 30L to 220L
Products	2 of which UPR	2 of which UPR
Hot water	55°C max	55°C max
Power	400V+N+T – 3,5 kW	400V+N+T – 5,5 kW
Dim.(L x l x h)	1480 x 1000 x 1500 mm	1480 x 1000 x 1500 mm
Flow rate	15 L/min	30 L/min
Pressure	80 bar	80 bar
Total weight when loaded	250 Kg	280 Kg
Finish	Pharmaceutical	Pharmaceutical

1 STATION DRUM WASHING CABIN

Internal washing of drums and containers 30L to 220L by high-pressure rotating head and external washing by rotating boom.



Models	LFC.E (without option)	LFC.S (without option)	LFC.P (without option)
Time frame	18 to 22 weeks		

KEY POINTS



Internal washing of drums from 30L to 220L with a high-pressure 360° rotating head impacting internal surfaces of every drums. HMI screen control.



304L or 316L stainless steel wash chamber accessible through a glass door*. The bottom of the chamber is sloped to ensure an efficient gravity flow during washing (*off model E).



Dedicated technical enclosure accessible via hinged door and removable panels for easy maintenance.



Pipes and components in contact with the rinsing water made of sloped stainless steel to ensure efficient gravity flow.



5 possible options: drying, second wash chamber, additional product injection, traceability by ticket printing, retractable wash head.

TECHNICAL DETAILS

Models	LFC.E (without options)	LFC.S (without options)	LFC.P (without options)
Drums	Standard Drums 30L to 220L	Standard Drums 30L to 220L	Standard Drums 30L to 220L
No. Utilities	1	2	2 of which EPU
Hot water	55°C max	55°C max	55°C max
Power	230V - 50Hz 1,5 kW	400V+N+T - 5,5kW	400V+N+T - 5,5kW
Dim. (L x l x h)	2300x1100x2050 mm	2300x1100x2050 mm	2300x1100x2050 mm
Flow rate	13 L/min	15 L/min	15 L/min
Pressure	60 bar	100 bar	100 bar
Total weight when loaded	850 Kg	850 Kg	850 Kg
Finish	Entry level	Standard	Pharmaceutical

2-STATION DRUM WASHING CABIN

Internal and external washing of drums and containers from 30L to 220L with a high-pressure rotating head and external washing with a vertical ramp.



Models	LFC-IE.23 (without options)	LFC-IE.38 (without options)
Time frame	20 weeks	

KEY POINTS

- Internal washing of 2 drums from 30L to 220L simultaneously, using high-pressure heads, rotating on 2 axes at 360°. The external washing of the drums is carried out using fixed washing ramps. Rotation of the drums by belt drives without the plates.
- 304L or 316L stainless steel wash chamber with curtain access. The bottom of the chamber is sloped to ensure efficient gravity flow during washing.
- Dedicated technical enclosure accessible by hinged door and removable panels to facilitate maintenance in the lower part of the machine.
- Piping and components in contact with rinsing water made of 316L sloped stainless steel to ensure efficient gravity flow.
- Human-machine interface managed by touch screen. Traceability of cycles possible by saving and printing tickets.
- 6 possible options: drying, additional utility, clean compressed air purge, additional product injection, traceability by ticket printing, supervision by audit trail and in compliance with the FDA 21 CFR PART 11.

TECHNICAL DETAILS

Models	LFC-IE.23 (without options)	LFC-IE.38 (without options)
Drums	2 stations for standard Drums 30L to 220L	2 stations for standard Drums 30L to 220L
No. utilities	2	2 off which EPU
Hot water	55°C maxi	55°C maxi
Power	400V+N+T – 5,5kW	400V+N+T – 7,5kW
Dim.(L x l x h)	2300x1100x2300 mm	2300x1100x2300 mm
Flow rate	23 L/min	38 L/min
Pressure	110 bar	110 bar
Total weight when loaded	1200 Kg	1200 Kg

WASHING BIN TURNER

Internal washing of bins from 120L to 1100L by turning the bin over on a rotating high-pressure head, with fully integrated high-pressure unit.



Models	LRB-15150 (without options)	LRB-30200 (without options)	LRB-4300 (without options)
Time frame	12 weeks		



POINTS CLEFS	
	Internal washing of infectious waste bins, household waste or similar, from 60L to 1100L, using one or two high-pressure 360° rotating heads that strikes the interior surfaces of each bin. Positioning of 1 or 2 bins according to the volume.
	Frame and washing chamber made of 304L stainless steel. Bucket for holding and tilting the containers, ensuring anti-splashing for the operators.
	Fight against RSI: ergonomic layout for easy insertion and removal of bins. The operator rolls the bin into position. Hydraulic motion control unit and safety sensors. Push-button control panel.
	Piping and components in contact with wash water in brass and stainless steel, or all stainless steel depending on finish. Respect for slopes to guarantee gravity flow. Right or left-hand drain outlet.
	Integrated high-pressure washing unit for autonomous equipment, supplied with water from your mains supply (possible up to 60°C). Product injection by metering pump. Integrated contact time.
	7 possible options: External high-pressure wash ramp, manual wash lance, light barrier, wash zone door, compressed air purge, injection of 1 additional product, screen.

TECHNICAL DETAILS		
Models	LRB-15150 (without options)	LRB-30200 (without options)
No. Of heads	1	2
Power	400V Tri+N+T – 16A – 5,5 kW	400V Tri+N+T – 32A – 11 kW
Dim. (L x l x h) cabin	2550x 1600 x 2575mm	2550x 1600 x 2575mm
Dim. (L x l x h) group	750x 520 x 700mm	750x 520 x 1300mm
Flow rate	15 L/min	30 L/min
Pressure	150 bar	190 Bar
Total weight when loaded	900 Kg	1000 Kg

New MONTANIER TETRA LRB IE

WASHING BIN TURNER – *INSIDE & OUTSIDE*

Internal and external washing of bins from 120L to 1100L by turning the bin over on a high-pressure rotating head and ramps, with fully-integrated high-pressure unit.



LOW WATER CONSUMPTION



HIGH PRESSURE

Models	LRB IE
Time frame	16 weeks

KEY POINTS	
	Internal washing of infectious waste bins, household waste or similar bins, from 120L to 1100L, using one or 2 high-pressure rotating heads with 360° impact on the inside of each bin, and 4 pivoting ramps for external washing. Positioning of 1 or 2 bins according to volume.
	304L stainless steel frame, control panel and wash chamber. Bucket for holding and tilting the bins, ensuring anti-splash protection for operators and watertightness of the wash chamber.
	Fight against RSI: ergonomic layout for easy insertion and removal of bins. The operator rolls the bin into position. Hydraulic motion control unit and safety sensors. Push-button control panel.
	Integrated high-pressure wash unit for stand-alone operation, supplied with water from your mains (up to 60°C possible). Product injection by metering pump. Integrated contact time.
	Piping and components in contact with wash water in brass and stainless steel, or all stainless steel depending on finish. Respect for slopes to guarantee gravity flow.
	Options: Frost protection, screen, manual wash lance, light curtain, air extraction, TERRA-GRECO compatibility (recycling), ...

TECHNICAL DETAILS	
Model	LRB-IE
Pressure	200 bar
Flow rate	30 L/min
Hot water	60 °C maxi
Power	400V Tri+N+T – 32A – 16 kW
Dim. (L x l x h) cabin	2950x1800x2400mm (open door)

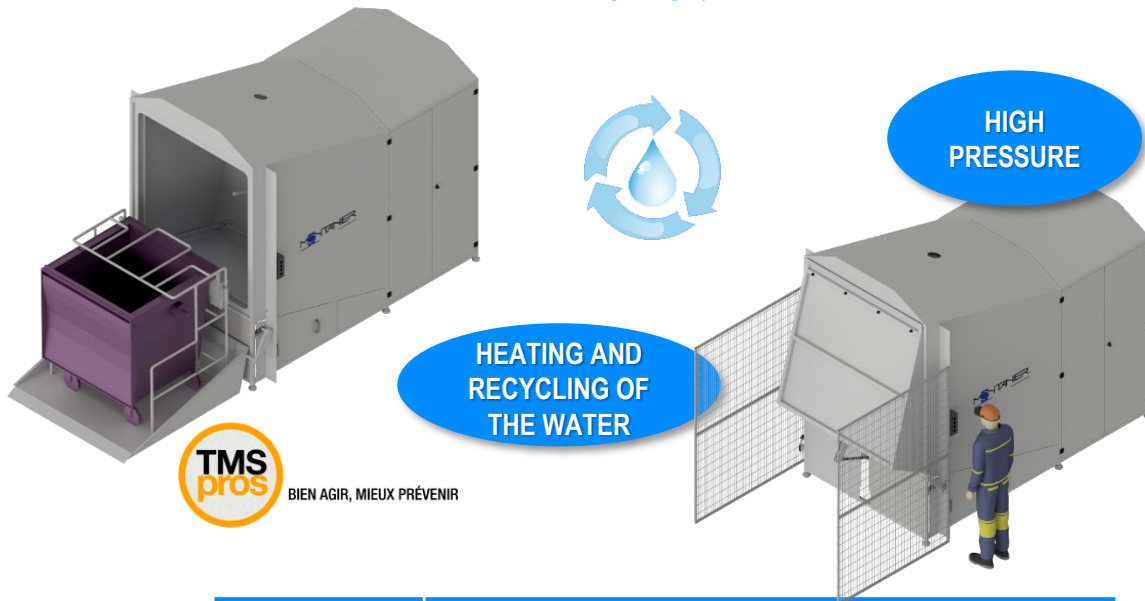


New

MONTANIER TETRA LRB IE-R-EC

WASHING BIN TURNER- *INSIDE & OUTSIDE* and *RECYCLING OF WATER WITH HOT WATER*

Internal and external washing of 120L to 1100L bins by turning the bin over on a head and rotating **high-pressure** ramps, with fully-integrated high-pressure unit. The system is **self-contained**, with its own **heating** system and wash water **recycling** system.



Models	LRB IE R EC
Time frame	20 weeks

KEY POINTS

	Internal washing of infectious waste bins, household waste or similar bins, from 120L to 1100L, using one or 2 high-pressure rotating heads with 360° impact on the inside of each bin, and 4 pivoting ramps for external washing. Positioning of 1 or 2 bins according to volume.
	304L stainless steel frame, control panel and wash chamber. Bucket for holding and tilting the bins, ensuring anti-splash protection for operators and watertightness of the wash chamber.
	Fight against RSI: ergonomic layout for easy insertion and removal of bins. The operator rolls the bin into position. Hydraulic motion control unit and safety sensors. Push-button control panel.
	Integrated high-pressure wash unit for stand-alone operation, supplied with water from your mains (up to 55°C possible). Product injection by metering pump. Integrated contact time.
	Piping and components in contact with wash water in brass and stainless steel, or all stainless steel depending on finish. Respect for slopes to guarantee gravity flow.
	Options: Frost protection, screen, manual wash lance, light curtain, air extraction.

TECHNICAL DETAILS

Models	LRB-IE-R-EC
Pressure	200 Bars
Flow rate	30 L/min
Hot water	55°C
Power	400V Tri+N+T – 52 kW
Dim. (L x l x h) cabin	4500x1800x2400mm (open door)



FLEXIBLE HOSE WASHING CABIN

3 stations washing with hot water circulation in both directions



Models	CLF 3X42	CLF 1X42
Time frame	24 weeks	

KEY POINTS

	The most efficient booth on the market for creams, foundations, mascara, powders, various cosmetic and pharmaceutical products. 1 to 3 stations allow the washing of hoses with a diameter of Ø25 to Ø60 and a length of 1.5m to 3.5m. The hoses can be connected end to end, in order to increase the washing rates per cycle. Washing is possible in both directions.
	316L stainless steel recirculating wash-tank with hygienic floor design to ensure efficient gravity flow during tank emptying and rinsing.
	Washing chamber closed by double door or flexible curtain. A safety sensor prevents the operation of the cycle while the door is open.
	Piping and components in contact with rinsing water made of 316L sloped stainless steel to ensure efficient gravity flow.
	Human-machine interface managed by touch screen. Traceability of cycles possible by saving and printing tickets.
	7 options available: hose adapters, end-of-cycle drying, process water utility, clean compressed air purge, washing of 1 drum pump station, supervision by audit trail and in compliance with FDA 21 CFR PART 11, curtain rail.

TECHNICAL DETAILS

Models	CLF 3x42	CLF 1x42
Number of stations	3	1
Hoses	Ø25 to 60 length 1,5m to 3,5m	Ø25 to 60 length 1,5m to 3,5m
Hot water	55 to 85°C	55 to 85°C
Power	400V+N+T - 30A – 16,5 kW	400V+N+T - 30A – 16,5 kW
Dim. (L x l x h)	2350 x 1150 x 2300 mm	2350 x 1150 x 2300 mm
Wash flow rate	40 m3/h	40 m3/h
Total weight when loaded	1200 Kg	1200 Kg

HIGH-PRESSURE MANUAL WASHING CABIN

Safe washing of the various parts with high-pressure.
Handling gloves, protective glass...



VERSIONS
1 Pair of Gloves
or
2 Pairs of Gloves

Models	CLM-1150.S (without options)	CLM-2150.S (without options)	CLM-1150.P (without options)	CLM-2150.P (without options)
Time frame	12 weeks			



KEY POINTS

	Glove boxes for personal protection (1 or 2 pairs depending on the type of Tetra CLM). Washing with a high-pressure lance or with rotating nozzles. Control by control box and foot pedal, allowing you to keep your hands free.
	Washing chamber made of 304L or 316L stainless steel, accessible through a safety glass door, and watertight side doors. The bottom of the chamber has a sloped design to ensure an efficient gravity flow during washing. The parts to be washed are placed on HDPE gratings for proper hygiene.
	Dedicated technical enclosure accessible via hinged door and removable panels to facilitate maintenance.
	Piping and components in contact with wash water in brass and stainless steel or all stainless steel depending on the finish. The Pharmaceutical finish means a 316L stainless steel construction for the enclosure and piping. The outer sheets are polished to a 220-grain finish.
	Various options available: integrated air extractor, 23L/min pump, detergent/disinfectant injection, side openings with access table and flexible inlet and outlet curtain.

TECHNICAL DETAILS

Models	CLM-1150.S (without options)	CLM-2150.S (without options)	CLM-1150.P (without options)	CLM-2150.P (without options)
No. of pairs of gloves / pistols	1	2	1	2
No. of utilities	1	1	1	1
Hot water	55°C max	55°C max	55°C max	55°C max
Power	400V+N+T – 5,5kW	400V+N+T – 5,5kW	400V+N+T – 5,5kW	400V+N+T – 5,5kW
Dim. (L x l x h)	1200x900x1850 mm	2000x900x1850 mm	1200x900x1850 mm	2000x900x1850 mm
Flow rate	15 L/min	15 L/min	15 L/min	15 L/min
Adjustable pressure	60 to 150 bar	60 to 150 bar	60 to 150 bar	60 to 150 bar
Total weight when loaded	550 Kg	850 Kg	550 Kg	850 Kg
Finish	Standard	Standard	Pharmaceutical	Pharmaceutical

UTENSIL WASHING MACHINE

Circulation washing of small materials, disinfection, drying (buckets, pots, clamps, seals, drums, etc.).



Models	MLU-1500.EG (without options)	MLU-1500.S (without options)	MLU-1500.P (without options)	MLU-1500.cGMP (without options)
Time frame	24 weeks			

KEY POINTS

	This machine allows you to wash your various utensils. It is the most efficient machine on the market. The materials are placed in a basket and washed with the help of rotating arms placed above and below. The washing is carried out by low pressure high flow circulation using a 110L tank.
	Washing cabinet made of stainless steel accessible through a 2/3 1/3 double door. (2/3 and 1/3 double door in EG)
	Dedicated technical enclosure accessible via hinged door and removable panels to facilitate maintenance.
	Stainless steel piping and enclosure. Sloping surfaces to ensure efficient gravity flow.
	8 possible options: drying, additional product injection, customized washing basket, basket transfer trolley, traceability of cycles possible by saving and printing tickets, ball basket, tubular exchanger, swing doors.

CARACTÉRISTIQUES TECHNIQUES

Models	MLU-1500.EG (without options)	MLU-1500.S (without options)	MLU-1500.P (without options)	MLU-1500.cGMP (without options)
Dim. Useful enclosure (L x l x h)	1200 x 900 x 700	1200 x 900 x 700	1200 x 900 x 700	1200 x 900 x 700
Hot water	55 - 80°C max	55 - 80°C max	55 - 80°C max	55 - 80°C max
Power	400V+N+T – 26A – 18 kW	400V+N+T – 26A – 22 kW	400V+N+T – 26A – 30 kW	400V+N+T – 26A – 22 kW
Dim.(L x l x h)	1900 x 1050 x 2150mm	2500 x 1150 x 2150mm	2500 x 1150 x 2150mm	2500 x 1150 x 2150mm
Wash flow rate	50 m3/h	60 m3/h	60 m3/h	60 m3/h
Pressure	2 bar	2 bar	4 bar	2 bar
Total weight when loaded	550 Kg	750 Kg	750 Kg	750 Kg
Magnetic striker	No	Yes	Yes	Yes
Automatic drainage	No	Yes	Yes	Yes
Programmed display	No, electronic board	Yes	Yes	Yes
Stainless steel enclosure 316L	No	No	Yes	Yes
Process water and purge AC	No	No	Yes	Yes

FLEXIBLE HOSE AND UTENSIL WASHING MACHINE

Washing by circulation, disinfection, drying
(hoses, buckets, pots, clamps, seals, drums, etc.)

MULTIPURPOSE MACHINE



Models	MLU-F.S (without options)	MLU-F.P (without options)	MLU-F.cGMP (without options)
Time frame	Details available on request		

KEY POINTS

	This machine allows you to wash your different utensils and hoses in the same cabinet. The equipment is washed on a basket with the help of rotating arms placed above and below it. The hose is washed internally with a dedicated pump. It is possible to wash the outside of the hose at the same time.
	Washing cabinet made of stainless steel accessible through a 2/3-1/3 double door.
	Dedicated technical enclosure accessible via hinged door and removable panels to facilitate maintenance.
	Stainless steel piping and enclosure. With slopes to ensure efficient gravity flow.
	8 possible options: drying, additional product injection, customized washing basket, basket transfer trolley, traceability of cycles possible by saving and printing tickets, ball basket, tubular exchanger, swing doors.

TECHNICAL DETAILS

Models	MLU-F.S (without options)	MLU-F.P (without options)	MLU-F.cGMP (without options)
Dim. Useful enclosure (L x l x h)	1200 x 900 x 700	1200 x 900 x 700	1200 x 900 x 700
Hot water	55 - 80°C max	55 - 80°C max	55 - 80°C max
Power	400V+N+T – 26A – 22 kW	400V+N+T – 26A – 30 kW	400V+N+T – 26A – 22 kW
Dim.(L x l x h)	2500 x 1150 x 2150mm	2500 x 1150 x 2150mm	2500 x 1150 x 2150mm
Wash flow rate	60 m3/h	60 m3/h	60 m3/h
Pressure	2 bar	4 bar	2 bar
Total weight when loaded	750 Kg	750 Kg	750 Kg
Magnetic striker	Yes	Yes	Yes
Automatic drainage	Yes	Yes	Yes
Programmed display	Yes	Yes	Yes
Stainless steel enclosure 316L	No	Yes	Yes
Process water and AC purge	No	Yes	Yes

PHARMACEUTICAL WASHING CABIN

Washing disinfection drying inside and outside tanks, high-pressure rotary head.

HIGH PRESSURE

THE MOST EFFICIENT ON THE MARKET

NO FLEXIBLE TUBES OR HOSES INSIDE

SHORTEST COMPLETE DRYING TIME



Models	CLP-1P (without options)	CLP-2P (without options)
Time frame	36 weeks	

KEY POINTS

	Internal washing of tanks, conical trunks, etc. Carried out by a high-pressure 360° rotating head that strikes the interior surfaces, by a rotating arm for washing underneath and by rotating ramps for washing the exterior.
	316L stainless steel wash chamber with slopes to ensure efficient gravity flow during washdowns. Interior finish Ra<0.8µm. Technical skid in 304L stainless steel.
	Single level floor for ergonomic ease of entry and exit of tanks in the cab. Hinged door with lip seals.
	Piping and components in contact with rinsing water made of 316L sloped stainless steel to ensure efficient gravity flow.
	100 bar cleaning pressure for optimal high-pressure cleaning. Programmed control of the cabin and by HMI with increased ergonomics. Product injection by dosing pump. Audit trail.
	6 possible options: door with automatic side opening, increased length to accommodate 2 tanks, increased height for high tanks, inflatable seals on doors, developing the automatic system to meet your specific requirements, modified washing pressure.

TECHNICAL DETAILS

Models	CLP-1P (without options)	CLP-2P (without options)
Tanks	Max height 3000 mm	Max height 3000 mm
No. Of doors	1	2
Hot water	85°C max	85°C max
Power	400V+N+T – 20 kW	400V+N+T – 20 kW
Dim.(L x l x h)	2.20 x 2.00 x 3.20m	2.20 x 2.00 x 3.20m
Flow rate	50 L/min	50 L/min
Pressure	100 bar	100 bar
Total weight when loaded	3000 Kg	3100 Kg
Inside finish	Ra<0,8 µm	Ra<0,8 µm

MONTANIER TERRA CLPcGMP

PHARMACEUTICAL WASHING CABIN cGMP

Washing, decontamination and drying of your pharmaceutical equipment.



EXPERT
COFREND

THE MOST
EFFICIENT ON
THE MARKET

SEVERAL
FUNCTIONS
POSSIBLE

FULL cGMP
FILE



Models	CLPcGMP-08 (without options)	CLPcGMP-PM (without options)
Time frame	45 weeks	



KEY POINTS

	Our cGMP cabins allow you to meet all your needs: washing, decontamination, drying of tanks and various equipment necessary for your production process, defrosting of various bags, etc. With the assurance of being cGMP compliant.
	Washing enclosure made of 316L stainless steel Ra<0.8µm, with a sloped design to ensure efficient gravity flow during washing. No retention, totally hygienic, perfectly drainable. MONTANIER cGMP cabins are specifically approved for their exceptional hygiene and high-quality design. They are well known for their ergonomic efficiency.
	Doors with inflatable joints and ergonomic introduction plan to facilitate the installation and removal of equipment. 3D design, mock-up reviews and ergonomic reviews ensure that your constraints are considered.
	ASME BPE piping. Orbital welding. Polishing to a mirror finish. Production of a welding booklet according to the rules of the art. Inspection of welds by a BINDT expert.
	The cGMP cabins are equipped with the best washing and water projection technologies, developed for years by MONTANIER. Product injection by means of a dosing pump. Integrated contact time.
	4 possible options: automatic side opening door, other customized cabin sizes, customized program development, modified pressure.

TECHNICAL DETAILS

Models	CLPcGMP-08 (without options)	CLPcGMP-PM (without options)
Tanks	Max height 3000 mm	Max height 3000 mm
No. Of doors	2	2
Hot water	85°C max	85°C max
Power	400V+N+T – 15 kW	400V+N+T – 15 kW
Dim.(L x W x H)	2.20 x 2.00 x 3.20m	2.20 x 2.00 x 3.20m
Variable flow rate	10 to 40 m3/h	10 to 40 m3/h
Pressure	5 bar	5 bar
Total weight when loaded	3000 Kg	3100 Kg
Interior finish	Ra<0,8 µm	Mirror Polished

HOSPITAL WASHING CABIN FOR TROLLEYS AND PARTS

Washing, spray disinfection, drying.



Models	CLH.1 (without options)	CLH-2 (without options)
Time frame	16 weeks	

KEY POINTS



Simple and inexpensive solution. Ideal for washing your trolleys, trays and shelves. Widely used in hospitals, cosmetic and pharmaceutical industries. The equipment or trolleys are washed using ramps fitted with nozzles. The washing is done by low pressure circulation. Drying (optional) is done by high flow nozzles.



Equipped with spray bars for washing, disinfecting, rinsing and equipped with blowing nozzles for drying. This machine is equipped with a simple control panel with buttons and switches.



Dedicated technical enclosure accessible via hinged door and removable panels to facilitate maintenance. Ground level installation, with access ramp, or to be integrated into the ground (masonry work to be done).



Stainless steel piping and enclosure. With slopes to ensure efficient gravity flow.



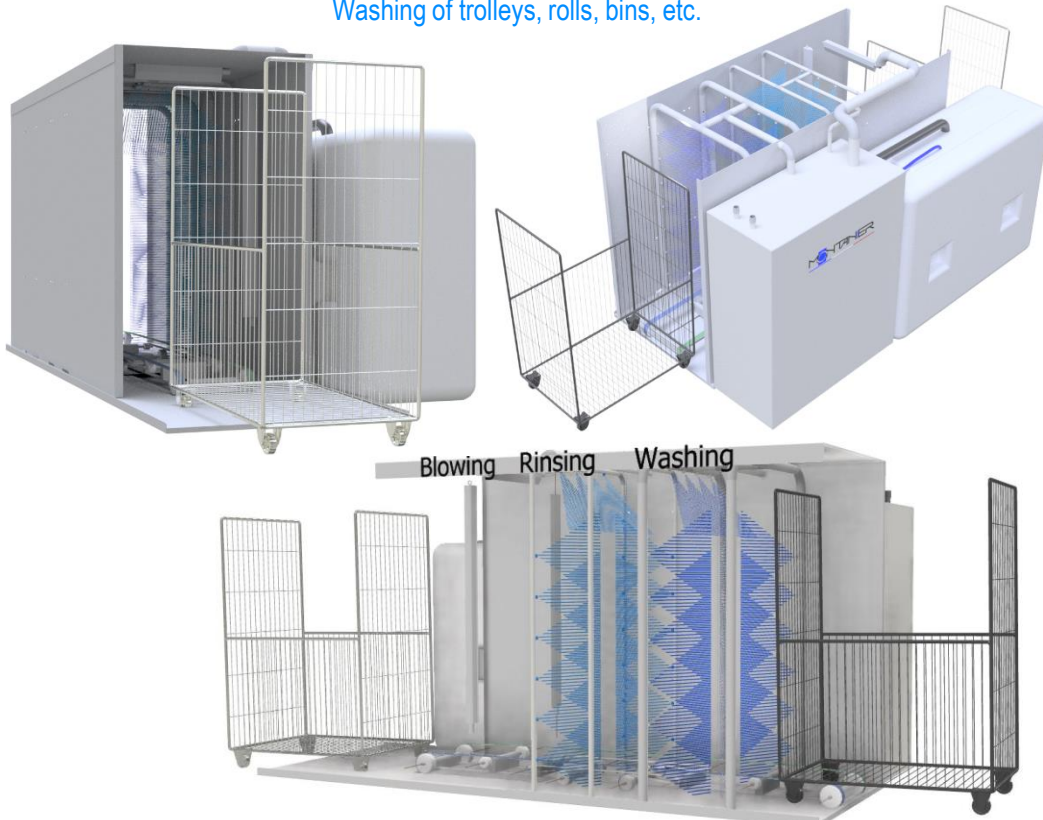
7 possible options: drying, additional product injection, addition of a utility, programmed HMI and traceability of cycles possible by saving and printing tickets, entry/exit lift table, double entry/exit doors, 316L stainless steel enclosure.

TECHNICAL DETAILS

Models	CLH-1 (without options)	CLH-2 (without options)
Dim. Useful enclosure (L x W x H)	1200 x 900 x 700	1200 x 900 x 700
Hot water	55 - 80°C max	55 - 80°C max
Power	400V+N+T - 26A - 18 kW	400V+N+T - 26A - 30 kW
Dim.(L x W x H)	1800 x 2200 x 2200mm	1800 x 2200 x 2200mm
Wash flow rate	35 m3/h	60 m3/h
Pressure	2 bar	2 bar
Total weight when loaded	800 Kg	1200 Kg
No. of Station	1	2
Automatic emptying	Yes	Yes

WASHING TUNNEL FOR HOSPITAL MATERIAL

Washing of trolleys, rolls, bins, etc.



Models	TLH-H	TLH-BH
Time frame	14 weeks	



KEY POINTS

	The equipment is washed by ramps fitted with nozzles. Efficient high-flow washing / high-pressure rinsing and disinfection.
	Stainless steel wash chamber. Water saving. Reuse of wash water.
	Dedicated technical enclosure for easy maintenance.
	Stainless steel piping and enclosure. Slopes for gravity flow.
	7 possible options: 316L stainless steel enclosure, blowing, drying, injection of additional product, screen, cycle traceability possible by saving and printing tickets, supervision.

CARACTÉRISTIQUES TECHNIQUES

Models	TLH-H (without options)	TLH-BH (without options)
Dim. Useful enclosure (L x l x h)	3000 x 1100 x 1920	3000 x 1100 x 1920
Hot water	60°C max	60°C max
Power	400V+N+T – 30A – 21 kW	400V+N+T – 41A – 28,5 kW
Dim.(L x W x H)	4000 x 2200 x 2150	4000 x 2200 x 2150
Heavy Duty Washing	–	300 l/min – 7 bar
High-Pressure Rinse	95 l/min – 70 bar	95 l/min – 70 bar
Total weight when loaded	600 Kg	3100 Kg
Detergent / disinfectant control	Yes, 1 product (disinfectant)	Yes, 2 products (detergent, disinfectant)
Automatic drainage	Yes	Yes
Programmed display	Programmed	Programmed
304L stainless steel enclosure	Yes	Yes

AUTOMATIC WASHING STAND FOR WASHING TANKS OR CONTAINERS

High-pressure washing to be connected to the HP unit type TERRA BL.



Models	TERRA POT3 (without options)	TERRA POT4 (without options)	TERRA POT61 (without options)	TERRA POT63 (without options)
Time frame	6 weeks			

KEY POINTS	
	This machine allows you to optimize the ergonomic installation of the head in your washing tanks. It is also widely used outdoors for washing hoppers, for example.
	Mechanically welded chassis in hot-dip galvanized steel or stainless steel. Dedicated technical enclosure accessible through an access hatch on the front panel. The machine can be placed inside or outside. The machine is supplied by your high-pressure mains supply. It can be equipped with a washing head or a high-pressure lance.
	6 options: double jib on 1 mast, secondary arm length 3.50m, washing head, pneumatic jack up/down, electric hoist, load balancer.

TECHNICAL DETAILS				
Simple models	TERRA POT3 (without options)	TERRA POT4 (without options)	TERRA POT61 (without options)	TERRA POT63 (without options)
Double models	TERRA 2 POT3 (without options)	TERRA 2 POT4 (without options)	TERRA 2 POT61 (without options)	TERRA 2 POT63 (without options)
Flow rate	15L/min	15L/min	15L/min	30L/min
Pressure	150 Bar	150 Bar	150 Bar	300 Bar
Hoses	3/8	3/8"	1/2"	1/2"
Mat height	2,50 m	4.50 m	6.00 m	6.00 m
Mat section	100x100mm	100x100mm	200x200mm	200x200mm
Primary arm	Fixed 2.15 m long	Fixed 4,50 m or 3 m long	180° swivel 4,50 m or 3 m long	180° swivel 4,50 m or 3 m long
Secondary arm	Without	360°swivel 2,50 m long	360°swivel 2,50 m long	360°swivel 2,50 m long
Total weight when loaded	150 Kg	250 Kg	500 Kg	500 Kg
Material	Galvanized or stainless steel	Galvanized or stainless steel	Galvanized or stainless steel	Galvanized or stainless steel

New MONTANIER TERRA IBC - GRV

HIGH-PRESSURE WASHER IBC

High-pressure washing form IBC

Low water consumption
(From 20L/
washing)



Models	IBC - E	IBC-S	IBC-P
Time frame	15 weeks		

KEY POINTS



Your ideal tool for efficient cleaning of your IBCs...Repeatable interior cleaning using a high-pressure, 2-axis, 360° rotating head, ensuring efficiency at all points. Product injection by metering pump.



Sensor-based detection of correct bowl positioning. Machine operation via a simple user panel,



Mechanically welded frame in 304L stainless steel. Fully streamlined technical skid on the side of the machine. Removable panels for easy maintenance.



Volumetric high-pressure pump, bypass and safety valve. 360° washing, components in contact with the wash water are made of 316L stainless steel for cosmetic and pharmaceutical versions.



Guiding elements for easy positioning of the IBC and a plate to allow a slope during washing to ensure complete evacuation of residues, wash water, etc.



Options: second water inlet, compressed air purge, injection of 1 additional product, 316L stainless steel, water recycling skid,

TECHNICAL DETAILS

Models	IBC-E	IBC-S	IBC-P
Pressure	20 à 120 Bar		
Flow rate	15L/min or 23 L/min		
Hot water	55 °C maxi		
Pipping	Brass / Stainless steel	Stainless steel	Stainless steel + Slopes + Purge
Position	Raised rear stop	Stainless steel slide	
Management	By logic module		By PLC (without display)
Size (L x l x h)	1180x1500x3000 mm		
Total weight when loaded	150 Kg		

HIGH-PRESSURE WASHER FIXED BY DOUBLE LANCE

Washing of tanks with integrated foam generator for IBCs, containers, conveyors, racks, shelves, kitchens, etc.



Models	MURA LINOX 120/15 (without options)	MURA LINOX 120/23 (without options)
Time frame	10 weeks	

KEY POINTS	
	Ideal for high-pressure washing with a lance or a head, when you do not need an automatic cycle with a low cadence. Dual channel lance washing to operate in low or high-pressure. Product injection by dosing pump by simple selection.
	Mechanically welded 304L stainless steel chassis. Dedicated technical enclosure accessible through a hinged door on the front. Lower part of the frame dedicated to an automatic hose-reel and detergent canister.
	High-pressure volumetric pump, bypass and safety valve in stainless steel.
	Man-machine interface by button box for recipe selection.
	7 options: Second water inlet, washing head, washing bracket, foam box, compressed air purge, injection of 1 additional product, stainless steel 316L.

TECHNICAL DETAILS		
Models	MURA LINOX 120/15 (without options)	MURA LINOX 120/23 (without options)
Number of utilities	1	
Hot water	55°C maxi	
Additive	1	
Power	400V+N+T – 4 kW	400V+N+T – 5,5 kW
Dim.(L x W x H)	1000 x 700 x 1500 mm	
Flow rate	15 L/min	23 L/min
Pressure	20 – 120 bar	
Total weight when loaded	250 Kg	

HIGH-PRESSURE WASHER FIXED BY ROTATING HEAD

Washing of tanks, IBCs, containers, etc.



Models	MURA GLAC 120/15 (without options)	MURA GLAC 120/23 (without options)
Time frame	16 weeks	

KEY POINTS

	Your ideal tool for efficient washing of your tanks, IBCs, etc. with a customizable, automatic and repeatable washing recipe. Repeatable internal washing with a high-pressure head, rotating on 2 axes at 360°, maintaining efficiency at every point. Product injection by dosing pump. Integrated contact time.
	Head detection at cycle start and during washing. Nut for fixing the head according to the type of container to be washed. Washing head delivered with a load balancer in a stainless-steel box.
	Fully welded frame in 304L stainless steel. Dedicated technical enclosure accessible through a hinged door on the front panel. Removable rear panels for easy maintenance.
	Volumetric high-pressure pump, bypass and safety valve in stainless steel.
	Man-machine interface managed by touch screen. Saving and printing of tickets.
	9 options: lance for external washing, second water inlet, audit trail, washing jib, connection tank, electric hoist, compressed air purge, injection of 1 additional product, stainless steel 316L

TECHNICAL DETAILS

Models	MURA GLAC 120/15 (without options)	MURA GLAC 120/ 23 (without options)
Number of utilities	1	
Hot water	55°C max	
Additive	1	
Power	400V+N+T – 4 kW	400V+N+T – 5,5 kW
Dim, (L x l x h)	1280 x 840 x 1900mm	
Flow rate	15 L/min	23 L/min
Pressure	80 – 120 bar	
Total weight when loaded	600 Kg	



MONTANIER

MURA CDF

FIXED DISINFECTION CENTER FOR WASHING / DISINFECTING / RINSING

Low pressure washing with various tools, on a fixed stainless-steel trolley.



Models	MURA CDF51 (without options)	MURA CDF101 (without options)	MURA CDF102 (without options)
Time frame	8 weeks		

KEY POINTS

	Perfectly suited for any cleaning company, due to its robustness and ease of use. Equipment compliant with hygiene regulations H.A.C.C.P.
	Mechanically welded 304L stainless steel frame and piping, it can be used indoors and outdoors. The machine works with cold or hot water from the normal supply up to 70°C.
	Low pressure centrifugal pump. An automatic hose reel with 20m hose and shockproof multifunctional lance (4 jet) and 1 or 2 detergent canisters are placed on the lower support. Product suction technology with single or double venturi.
	5 options: manual reel, standard lance, variable jet lance, washing lance, foam lance.

TECHNICAL DETAILS

Models	MURA CDF51 (without options)	MURA CDF101 (without options)	MURA CDF102 (without options)
Flow rate	From network (20L/min min)	20L/min	20L/min
Pressure	3-5 Bar from network	10 Bar	10 Bar
Pump	None	Centrifugal	Centrifugal
Power	-	220V 50Hz – 0,55 kW	220V 50Hz – 0,55 kW
Dim.(L x W x H)	600 x 450 x 1800mm	600 x 450 x 1800mm	600 x 450 x 1800mm
Total weight when loaded	100 Kg	100 Kg	100 Kg
No. of products possible	1	1	2



MOBILE FOAM DISINFECTION CENTER For washing / spraying foam / disinfecting / rinsing

Medium or high-pressure cleaning with various tools, on a mobile cart



**BEST
FOAM ON THE MARKET**



**MANUAL
WINDER**



HANDY

Models	MURA CDMM2020 (without options)	MURA CDMM3060 (without options)
Time frame	8 weeks	

KEY POINTS

	Perfectly suited for any cleaning company, due to its manoeuvrability, large inflatable wheels and ease of use.
	With a welded 304L stainless steel frame and piping, the machine can be used indoors and outdoors. The machine works with cold or hot water from the mains supply of up to 65°C.
	Centrifugal or high-pressure volumetric pump, by-pass and safety valve in stainless steel, depending on the model. Manual hose reel with 20m hose and standard lance. 2 product cans are placed on the front support. The MURA CDMM produces the best foam on the market.
	Initiated with a simple switch, with an easy selection of wash/rinse/foam/disinfection functions selected by stainless steel handle.
	5 options: automatic hose-reel, multifunctional lance, variable jet lance, washing lance, foam lance.

TECHNICAL DETAILS

Models	MURA CDMM2060 (without options)	MURA CDMM3060 (without options)
Flow rate	20L/min	30L/min
Pressure	20 Bar	30-60 Bar
Pump	Centrifugal	Piston pump
Power	220V 50Hz – 2,2kW	400V Tri +N+T – 3,5kW
Dim.(L x W x H)	1000 x 750 x 1200mm	1000 x 750 x 1200mm
Total weight when loaded	150 Kg	200 Kg
No. of possible products	2	2

MONTANIER MURA NEP - CIP

MOBILE CLEAN IN PLACE SKID



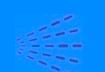



Equipment for cleaning tanks and industrial equipment.



**ROBUST &
HANDY**

Models	NEP-M	NEP-A
Time frame	16 weeks	18 weeks

KEY POINTS

	300L stainless steel tank for mixing water + soda, mounted on a mobile welded frame
	Pneumatic valve control with control panel. Piping and components in contact with rinse water in 316L stainless steel.
	High-flow, closed-circuit cleaning.
	Options: Holder for disinfectant and detergent. Metering pump.
	Plug and play, skid connection via flexible hoses.
	Options and accessories: Detergent injection, water heating, water recovery pump, 2nd tank, tank insulation, osmosis water compatibility, traceability, machine and wash recipe management via HMI...

TECHNICAL DETAILS

Models (without options)	MURA NEP-M (Manual)	MURA NEP-A (Automatic)
Pressure	3 Bars	
Flow rate	10 m³/h	
Tank volume	300L	
Compressed air purge	No	Yes
Power	400V+N+T – 3 kW	400V+N+T – 3,5 kW
Size (L x l x h)	1900 x 1200 x 1850 mm	1900 x 1200 x 1850 mm
Hot water	Option : 18 kW	Option : 18 kW



HIGH-PRESSURE HOSE CLEANING WITH SPIRALE

Internal washing of hoses, all diameters ($\geq 25\text{mm}$) and lengths



Models	MURA FLEX-15 (without options)	MURA FLEX-23 (without options)
Time frame	10 weeks	

KEY POINTS

	Washing by inserting a spirale into the hoses to be washed. Injection of product via a metering pump by simple selection.
	Welded 304L stainless steel chassis. Dedicated technical enclosure accessible via front hinged door. Lower part of chassis for dosing pump and detergent canister.
	High-pressure positive-displacement pump, bypass and safety valve in stainless steel.
	Human-machine interface with remote button box close to the ferret for utility and detergent selection. Control of ferret by gun.
	Options: Second water inlet, purified water demand management, compressed air purge, 1 additional product injection, 316L stainless steel.

TECHNICAL DETAILS

Models	MURA FLEX-15 (without options)	MURA FLEX-23 (without options)
No. of Utilities	1	
Hot water	55°C maxi	
Additive	1	
Power	400V+N+T – 4 kW	400V+N+T – 5,5 kW
Dim. (L x l x h)	1000 x 700 x 1500 mm for the technical group	
Flow rate	15 L/min	23 L/min
Spirale pressure	20 to 120 bar	
Weight	250 Kg	

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EVERYONE'S RESPONSIBILITY TO
THE PLANET



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COMPANY AND COLLEAGUES

