



# RANGE of MACHINES

CLEANING - DECONTAMINATION - HIGH-PRESSURE

PHARMACEUTICAL-COSMETIC-MEDICAL





## PRODUCTS CATALOGUE

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PHARMACEUTICAL COSMETIC MEDICAL

**TETRA** →

1 STATION DRUM WASHER

1 STATION DRUM WASHER INTERIOR EXTERIOR

1 STATION DRUM WASHING CABIN

2 STATION DRUM WASHING CABIN

BIN TURNER

WASHING BIN TURNER

FLEXIBLE HOSE WASHING CABIN

HIGH-PRESSURE MANUAL WASHING CABIN

UTENSIL WASHING MACHINE

FLEXIBLE HOSE AND UTENSIL WASHING MACHINE

**According to the model**

Energy : 230, 400 V

13L/min to 900L/min

From 3 to 250 bars

Room temperature of 85°C



**TERRA** →

PHARMACEUTICAL WASHING CABIN

PHARMACEUTICAL WASHING CABIN cGMP

HOSPITAL WASHING CABIN

HOSPITAL WASHING TUNNEL

AUTOMATIC WASHING STAND

**According to the model**

Energy : 400V

15L/min to 30L/min

From 150 to 300 bars

Room temperature of 85°C



**MLIRA** →

HIGH PRESSURE WASHER

HIGH PRESSURE WASHER WITH ROTATING HEAD

FIXED DISINFECTION STATION

MOBILE FOAM DISINFECTION CENTER

MOBILE CLEAN IN PLACE SKID

**According to the model**

Energy : 220V, 400V

15L/min to 30L/min

From 3 to 120 bars

Room temperature of 85°C



# MACHINE SUMMARY

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## 1 STATION DRUM WASHER

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



| Models     | LF-220.EG<br>(without options) | LF-220.S<br>(without options) | LF-220.P<br>(without options) |
|------------|--------------------------------|-------------------------------|-------------------------------|
| Time frame | 10 weeks                       | 12 weeks                      | 14 weeks                      |

### 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 the rinsing water are made of stainless steel with slopes to ensure gravity flow.                                    |
|  | Injection of product by dosing pump. Integrated contact time. (except LF-220-EG)   |
|  | 4 possible options: sealing door, compressed air purge, injection of 1 additional product, stainless steel 316L.   |

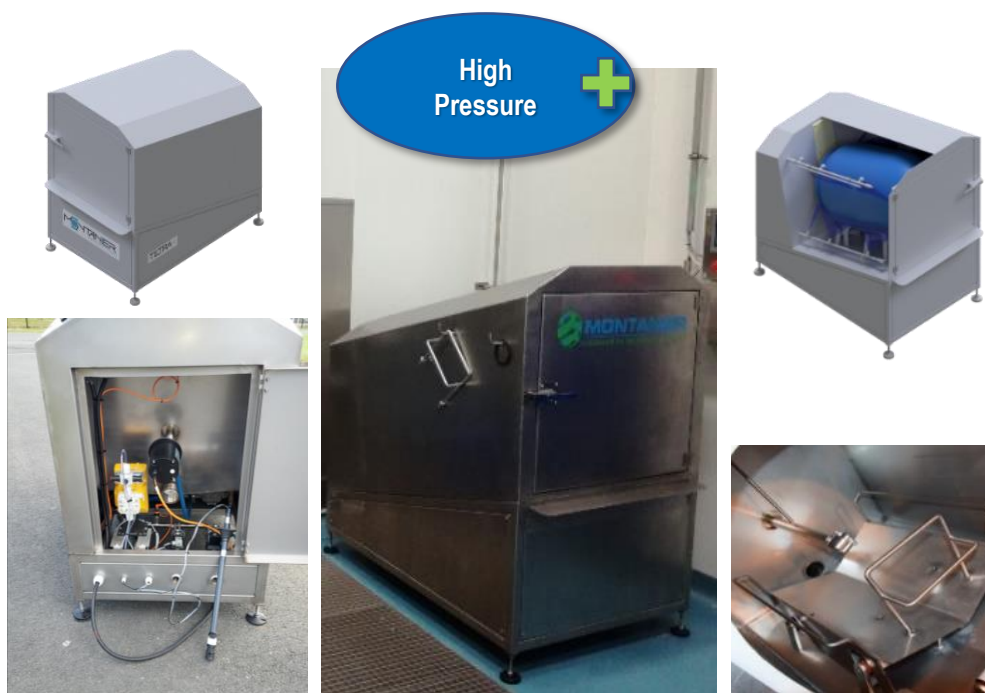
### TECHNICAL DETAILS

| Models                   | LF-220.EG<br>(hors options) | LF-220.S<br>(hors options) | LF-220.P<br>(hors 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 UPR             |
| Hot water                | 55°C max                    | 55°C max                   | 55°C max                   |
| Power                    | 230V - 50Hz<br>1,5 kW       | 400V+N+T – 3 kW            | 400V+N+T – 3 kW            |
| Size(L x W x h)          | 1400x 750 x 1500mm          | 1400x 750 x 1500mm         | 1400x 750 x 1500mm         |
| Flow rate                | 13 L/min                    | 15 L/min                   | 15 L/mn                    |
| Pressure                 | 60 bar                      | 80 bar                     | 80 Bar                     |
| Total weight when loaded | 250 Kg                      | 250 Kg                     | 250 Kg                     |
| Finish                   | Entry-level                 | Standard                   | Pharmaceutical             |









## 1 STATION DRUM WASHER INTERIOR EXTERIOR

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



| Models     | LFIE-220.P<br>(Without options) | LFIE-220.P+<br>(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 each 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 rinsing water made of 316L sloped stainless steel to ensure gravity flow.   |
|  | Detergent injection by dosing pump. Integrated contact time.  |
|  | 4 possible options: compressed air purge, injection of 1 additional product, 316L stainless steel sheet metal.  |

### TECHNICAL DETAILS

| Models                   | LFIE-220.P<br>(Without options) | LFIE-220.P+<br>(Without options) |
|--------------------------|---------------------------------|----------------------------------|
| Drums                    | Standard drums 30L to 220L      | Standard drums 30L to 220L       |
| Product                  | 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 W 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     | LFP-220EG<br>(without option) | LFP-220S<br>(without options) | LFP-220P<br>(without options) |
|------------|-------------------------------|-------------------------------|-------------------------------|
| Time frame | 18 to 22 weeks                |                               |                               |

### KEY POINTS



Internal washing of drums from 30L to 220L with a high-pressure 360° rotating head, and external washing with an upper rotating ramp\*. HMI\* screen control, (\*except for entry level).



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.



Dedicated technical enclosure accessible via hinged door and removable panels to facilitate 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                   | LFP-220EG<br>(without options) | LFP-220S<br>(without options) | LFP-220P<br>(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 UPR                |
| Hot water                | 55°C max                       | 55°C max                      | 55°C max                      |
| Power                    | 230V - 50Hz<br>1,5 kW          | 400V+N+T – 5,5kW              | 400V+N+T – 5,5kW              |
| Dim.<br>(L x W 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.



Double  
Washing +



| Models     | LFPIE-220.23 (without options) | LFPIE-220.38 (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 (drums mounted on rotating plates).  
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.



Man-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.

### TECHNICAL DETAILS

| Models                   | LFPIE-220.23<br>(without options)            | LFPIE-220.38<br>(without options)            |
|--------------------------|--|--|
| Drums                    | 2 stations for standard drums<br>30L to 220L | 2 stations for standard drums<br>30L to 220L |
| No. utilities            | 2  | 2 of which UPR                               |
| Hot water                | 55°C max                                     | 55°C max                                     |
| Power                    | 400V+N+T – 5,5kW                             | 400V+N+T – 7,5kW                             |
| Dim.(L x W 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                                      |

## BIN TURNER

Turning unit for containers from 60L to 1100L on an integrated high-pressure rotating head, to be connected to your own high-pressure system.



| Models     | RB-15150<br>( without options) | RB-30200<br>(without options) |
|------------|--------------------------------|-------------------------------|
| Time frame | 10 weeks                       |                               |

### KEY POINTS

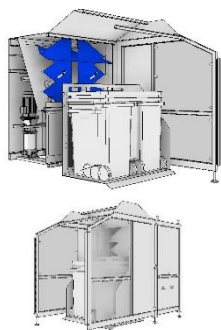
|  |  |
|--|--|
|  | Allows the internal washing of infectious waste bins, household waste or similar, from 60L to 1100L, using one or two high-pressure 360° rotating heads which strike the internal surfaces of each bin. Positioning of 1 or 2 bins according to volumes. |
|  | Frame and washing chamber made of 304L stainless steel. Holding and tilting bucket for the containers, ensuring anti-splashing for the operators.  |
|  | Fight against MSD : Ergonomic laying surface to facilitate the introduction and removal of the bins. The operator positions the bin by rolling it. Hydraulic control unit for managing movements and safety sensors. Control panel with push buttons.    |
|  | Stainless steel piping and components in contact with wash water, with slopes to ensure efficient gravity flow. Right or left-hand drain outlet.   |
|  | To enable the washing of the tanks, your RB is to be connected to your high-pressure washing unit.   |
|  | 7 possible options: external spray ramp, manual wash lance, light barrier, wash zone door, compressed air purge, injection of 1 additional product, screen.  |

### TECHNICAL DETAILS

| Models                   | RB-15150<br>(without options)                 | RB-30200<br>(without options)                  |
|--------------------------|---|--|
| No. of heads             | 1   | 2  |
| Power                    | 400V Tri +N+T – 16A                           | 400V Tri + N+T – 16A                           |
| Dim.(L x W x H) cabin    | 2550x 1600 x 2575mm                           | 2550x 1600 x 2575mm                            |
| Dim.(L x W x H) group    | 750x 520 x 750mm                              | 750x 520 x 1300mm                              |
| Flow rate                | Based on your group high-pressure, max 50L/mn | Based on your group high-pressure, max 100L/mn |
| Pressure                 | Based on your group high-pressure, max 250Bar | Based on your group high-pressure, max 250Bar  |
| Total weight when loaded | 750 Kg  | 770 Kg   |

## WASHING BIN TURNER

Internal washing of bins from 60L to 1100L by turning the bin over on a rotating high-pressure head, with fully integrated high-pressure unit.



| Model      | LRB-15150<br>(without options) | LRB-30200<br>(without options) | LRB-4300<br>(without options) |
|------------|--------------------------------|--------------------------------|-------------------------------|
| Time frame | 12 weeks                       |                                |                               |

### KEY POINTS



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.



To fight against musculoskeletal disorders: Ergonomic laying surface to facilitate the introduction and removal of the bins. The operator positions the bin by rolling it. Hydraulic control unit for managing movements and safety sensors. Control panel with push buttons.



Stainless steel piping and components in contact with wash water, with slopes to ensure efficient 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 dosing 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

| Model                        | LRB-15150<br>(without options) | LRB-30200<br>(without options) | LRB-4300<br>(without options) |
|------------------------------|--------------------------------|--------------------------------|-------------------------------|
| No. of heads                 | 1                              | 2                              | 2 + outside ramp              |
| Power                        | 400V Tri+N+T – 16A – 5,5 kW    | 400V Tri+N+T – 32A – 11 kW     | 400V Tri+N+T – 16A – 7,5 kW   |
| Dim.<br>(L x W x H)<br>cabin | 2550x 1600 x 2575mm            | 2550x 1600 x 2575mm            | 2950x 1600 x 2400mm           |
| Dim.<br>(L x W x H)<br>group | 750x 520 x 700mm               | 750x 520 x 1300mm              | 750x 520 x 1300mm             |
| Flow rate                    | 15 L/min                       | 30 L/mn                        | 18 m3/h                       |
| Pressure                     | 150 bar                        | 190 Bar                        | 4 Bar                         |
| Total weight<br>when loaded  | 900 Kg                         | 1000 Kg                        | 900 Kg                        |



## 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.



Man-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 W 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<br>(without options) | CLM-2150.S<br>(without options) | CLM-1150.P<br>(without options) | CLM-2150.P<br>(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<br>(without options) | CLM-2150.S<br>(without options) | CLM-1150.P<br>(without options) | CLM-2150.P<br>(without options) |
|------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| No. pairs of gloves/ nozzles | 1                               | 2                               | 1                               | 2                               |
| No. 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.<br>(L x W 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<br>(without options) | MLU-1500.S<br>(without options) | MLU-1500.P<br>(without options) | MLU-1500.cGMP<br>(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.<br>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.  |
|  | 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, customised washing basket, basket transfer trolley, traceability of cycles possible by saving and printing tickets, ball basket, tubular exchanger, swing doors.   |

### TECHNICAL DETAILS

| Models                            | MLU-1500.EG<br>(without options) | MLU-1500.S<br>(without options) | MLU-1500.P<br>(without options) | MLU-1500.cGMP<br>(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 W 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.)



| Models     | MLU-F.S<br>(without options)  | MLU-F.P<br>(without options) | MLU-F.cGMP<br>(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, customised 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<br>(without options) | MLU-F.P<br>(without options) | MLU-F.cGMP<br>(without options) |
|--------------------------------------|------------------------------|------------------------------|---------------------------------|
| Dim. useful enclosure<br>(L x W 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<br>kW    | 400V+N+T – 26A – 30<br>kW    | 400V+N+T – 26A –<br>22 kW       |
| Dim.(L x W x H)                      | 2500 x 1150 x<br>2150mm      | 2500 x 1150 x 2150mm         | 2500 x 1150 x<br>2150mm         |
| Wash flow rate                       | 60 m3/h                      | 60 m3/h                      | 60 m3/h                         |
| Pressure                             | 2 bar                        | 4 bar                        | 2 bar                           |
| Total weight when<br>loaded          | 750 Kg                       | 750 Kg                       | 750 Kg                          |
| Magnetic striker                     | Yes                          | Yes                          | Yes                             |
| Automatic drainage                   | Yes                          | Yes                          | Yes                             |
| Programmed display                   | Yes                          | Yes                          | Yes                             |
| Stainless steel<br>enclosure 316L    | No                           | Yes                          | Yes                             |
| Process water and AC<br>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<br>(without options) | CLP-2P<br>(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<br>(without options) | CLP-2P<br>(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 W 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                     |
| Interior 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  
COFREN +

The most  
efficient on the  
market +

Several  
functions  
possible +

Full cGMP file +

| Models     | CLPcGMP-08<br>(without options) | CLPcGMP-PM<br>(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  $Ra < 0.8 \mu m$ , 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 taken into account.



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 customised cabin sizes, customized program development, modified pressure.

### TECHNICAL DETAILS

| Models                   | CLPcGMP-08<br>(without options) | CLPcGMP-PM<br>(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          | $Ra < 0,8 \mu m$                | Mirror Polished                 |

## HOSPITAL WASHING CABIN FOR TROLLEYS AND PARTS

Washing, spray disinfection, drying.



| Models     | CLH.1<br>(without options) | CLH-2<br>(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<br>(without options) | CLH-2<br>(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                        |

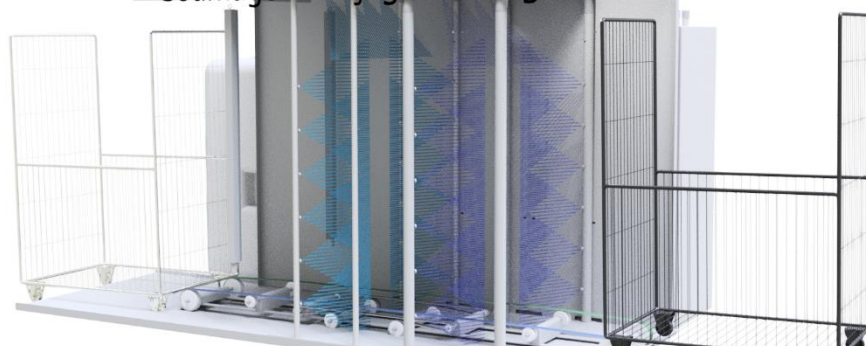


## WASHING TUNNEL FOR HOSPITAL MATERIAL

Washing of trolleys, rolls, bins, etc.



Soufflage Rinçage Lavage



| Models     | CLH-H    | CLH-HB |
|------------|----------|--------|
| Time frame | 12 weeks |        |

### KEY POINTS

|  |  |
|--|--|
|  | The material is washed by ramps equipped with nozzles. Efficient high-pressure washing / rinsing and disinfection.   |
|  | Stainless steel wash chamber.<br>Water saving. Re-use of washing water.  |
|  | Dedicated technical enclosure to facilitate maintenance.   |
|  | Stainless steel piping and enclosure.<br>Slopes to ensure efficient gravity flow.  |
|  | 7 possible options: 316L stainless steel enclosure, blowing, drying, injection of additional product, screen, traceability of cycles possible by saving and printing tickets, supervision. |

### TECHNICAL DETAILS

| Models                            | TLH-H<br>(without options)    | TLH-HB<br>(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 MURA GLAC...



| Models     | TERRA POT4<br>(without options) | TERRA POT61<br>(without options) | TERRA POT63<br>(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 galvanised 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

| Models                   | TERRA POT3<br>(without options) | TERRA POT4<br>(without options) | TERRA POT61<br>(without options) | TERRA POT63<br>(without options) |
|--------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Max flow rate            | None                            | 15L/mn                          | 15L/mn                           | 30L/mn                           |
| Pressure                 | 150 Bar                         | 150 Bar                         | 150 Bar                          | 300 Bar                          |
| Hoses                    | 3/8"                            | 3/8"                            | 1/2"                             | 1/2"                             |
| Height of mast           | 2.50 m                          | 4.50 m                          | 6.00 m                           | 6.00 m                           |
| Mast section             | 100x100mm                       | 100x100mm                       | 200x200mm                        | 200x200mm                        |
| Primary arm              | Fixed<br>Length 2,15 m          | Fixed<br>Length 4,50 m          | Rotating 180°<br>Length 4,50 m   | Rotating 180°<br>Length 4,50 m   |
| Secondary arm            | None                            | Rotating 360°<br>Length 2,50 m  | Rotating 360°<br>Length 2,50 m   | Rotating 360°<br>Length 2,50 m   |
| Total weight when loaded | 150 Kg                          | 250 Kg                          | 500 Kg                           | 500 Kg                           |
| Washing lance            | 1                               | 1                               | 1                                | 1                                |
| Material                 | Galvanised or stainless steel   | Galvanised or stainless steel   | Galvanised or stainless steel    | Galvanised or stainless steel    |

## HIGH-PRESSURE WASHER FIXED BY DOUBLE LANCE

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



| Models     | MURA LINOX 120/15<br>(without options) | MURA LINOX 120/23<br>(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<br>(without options) | MURA LINOX 120/23<br>(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 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<br>(without options) | MURA GLAC 120/23<br>(without options) |
|------------|---------------------------------------|---------------------------------------|
| Time frame | 16 weeks                              |                                       |

### Key points

|  |  |
|--|--|
|  | Your ideal tool for efficient washing of your tanks, IBCs, etc. with a customisable, 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<br>(without options) | MURA GLAC 120/ 23<br>(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 W 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                                |  |







## FIXED DISINFECTION CENTER FOR WASHING / DISINFECTING / RINSING

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



| Models     | MURA CDF51<br>(without options) | MURA CDF101<br>(without options) | MURA CDF102<br>(without options) |
|------------|---------------------------------|----------------------------------|----------------------------------|
| Time frame | 8 weeks                         |                                  |                                  |

### KEY POINTS

|   |  |
|---|--|
|  | Perfectly suited for any cleaning company, due to its robustness and ease of use.<br>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<br>(without options) | MURA CDF101<br>(without options) | MURA CDF102<br>(without options) |
|--------------------------|---------------------------------|----------------------------------|----------------------------------|
| Flow rate                | From network<br>(20L/mn min)    | 20L/mn                           | 20L/mn                           |
| 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.



| Models     | MURA CDMM2025<br>(without options) | MURA CDMM3025<br>(without options) | MURA CDMM2060<br>(without options) | MURA CDMM3060<br>(without options) |
|------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Time frame | 8 weeks                            |                                    |                                    |                                    |

### Key points



Perfectly suited for any cleaning company, due to its maneuverability, 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.

### CARACTÉRISTIQUES TECHNIQUES

| Models                   | MURA CDMM2025<br>(without options) | MURA CDMM3025<br>(without options) | MURA CDMM2060<br>(without options) | MURA CDMM3060<br>(without options) |
|--------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Flow rate                | 20L/mn                             | 30L/mn                             | 20L/mn                             | 30L/mn                             |
| Pressure                 | 25 Bar                             | 25 Bar                             | 40 Bar                             | 30-60 Bar                          |
| Pump                     | Centrifugal                        | Centrifugal                        | Piston pump                        | Piston pump                        |
| Power                    | 220V 50Hz – 2,2 kW                 | 400V Tri +N+T – 3 kW               | 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                | 1000 x 750 x 1200mm                | 1000 x 750 x 1200mm                |
| Total weight when loaded | 150 Kg                             | 170 Kg                             | 180 Kg                             | 200 Kg                             |
| No. of possible products | 2                                  | 2                                  | 2                                  | 2                                  |

New

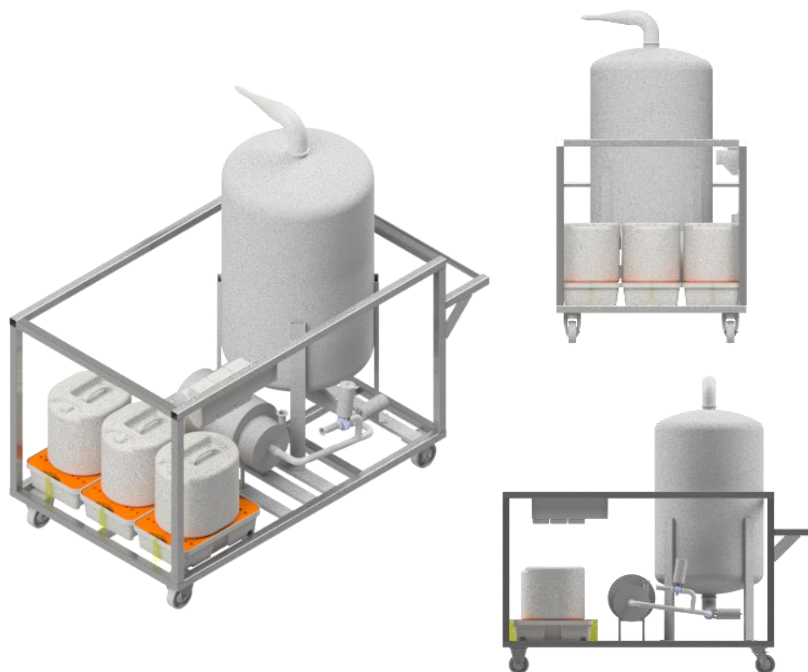
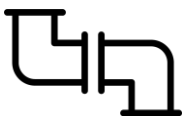
## MOBILE CLEAN IN PLACE SKID

Equipment for cleaning tanks and industrial equipment.

CYCLE TIME  
CONTROLLED



QUICK CONNECT



| Models     | 500L     | 1000L |
|------------|----------|-------|
| Time frame | 12 weeks |       |

### KEY POINTS

|  |  |
|--|--|
|  | Stainless steel tank 304L of 500L for the mixture of water + chemical product  |
|  | Pneumatic valve control with control panel. Piping and components in contact with the rinsing water made of 316L sloped stainless steel to ensure efficient gravity flow.                        |
|  | Closed loop cleaning. Controlled cycle times.  |
|  | Holder for disinfectant and detergent products. Dosing pump.   |
|  | Plug and play, skid connection via hose.   |
|  | Options and accessories: Pressure/flow, tank volume, number of tanks, steam, hot water or electric heater, various utilities, clean air purges, HMI, traceability, ticket printing, supervision. |

### TECHNICAL DETAILS

| Models         | MURA NEP 500  | MURA NEP 1000   |
|----------------|---|---|
| Pressure       | 4 Bar   | 4 Bar   |
| Flow rate      | 100 L/mn  | 100 L/mn  |
| Volume of tank | 498 L   | 2 x 498 L   |
| Product        | 1 to 3 possible types of products (detergent, disinfectant, etc.) | 1 to 3 possible types of products (detergent, disinfectant, etc.) |
| Power          | 400V+N+T – 9A – 5,5kW   | 400V+N+T – 9A – 5,5kW   |
| Dim. (LxWxH)   | 2320 x 1250 x 2210 mm   | 3120 x 1250 x 2210 mm   |
| Hot water      | Optional thermal heater   | Optional thermal heater   |



RENTAL EQUIPMENT

# RENTAL CONTRACT



## KEY POINTS of our rental contracts

|                          |   |
|--------------------------|---|
| <b>Flexibility</b>       | MONTANIER offers you the possibility of renting certain machines on a short, medium or long term basis, depending on your needs and our availability. Contact us to organize the best solution for you.     |
| <b>Reliability</b>       | The equipment is regularly maintained thanks to the expertise of our maintenance department in order to provide safety and optimal duration of use.   |
| <b>Cost transparency</b> | The rental agreement gives you a clear overview of your costs at all times. This provides you with lasting security for economic planning.  |
| <b>Response time</b>     | Our agencies, spread over the national territory, allow us to intervene quickly for a delivery, a recovery or a maintenance intervention if necessary. Please contact our teams to find out the conditions. |

# OUR DIFFERENT EQUIPMENT FOR HIRE

| EQUIPMENT        | PHOTO  | WEEKLY Rentals | MONTHLY Rentals | Lease | EQUIPMENT       | PHOTO  | WEEKLY Rentals | MONTHLY Rentals | Lease |
|------------------|--|----------------|-----------------|-------|-----------------|--|----------------|-----------------|-------|
| Range TETRA LF   |   | -              | ✓               | ✓     | Range MURA CDMM |   | ✓              | ✓               | -     |
| Range TETRA LRB  |   | -              | ✓               | ✓     | Range MURA CDF  |   | ✓              | ✓               | -     |
| Range MURA LINOX |   | -              | ✓               | ✓     | Range TETRA CLF |   | -              | ✓               | ✓     |
| Range MURA GLAC  |   | -              | ✓               | ✓     | Range TERRA CLH |   | -              | ✓               | ✓     |
| Range TETRA MLU  |  | -              | ✓               | ✓     | Range TERRA CLM |  | -              | ✓               | ✓     |

*Other products available for rent on request.*







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RESPONSIBILITY  
THE COMPANY'S SOCIAL AND ENVIRONMENTAL  
PERFORMANCE



EVERYONE'S RESPONSIBILITY  
TOWARDS THE PLANET



RESPONSIBILITY OF EACH EMPLOYEE  
TOWARDS THE COMPANY AND HIS COLLEAGUES

