

ULTRASONIC

WM 83-50

Cleaner ULTRASONIC WM 83-50

The washing cabin WM 83-50 is born to satisfy every need of degreasing and cleaning of mechanical parts.

It is suitable for inter-optional cleaning, and for finishing cleaning (preparatory to final assembling or packaging) thanks to its great versatility.

During the purchasing phase, it is possible to customize the machine with a wide number of suitable options.

In particular, the possibility of introducing a "softner", and a "demineraliser", matching with single and double stage filtration systems (with different types of filtration more or less strong) extends the operative life of the machine keeping the level of cleanliness, constant.

Specifications

The washing cabin WM 83-50 can be loaded manually with the parts to be processed, thanks to a front vertical sliding and fold away doors. The washing can be realized in automatic mode or manually by the operator.



In automatic mode it is possible to do wash cycles characterized by the following phases:

- Dipping in a detergent solution, hot condition with a hydrokinetic action pre and post US;
- Dipping in a detergent solution, hot condition with ultrasound activation;
- Rising water, hot condition (running water) and tilting ramp;
- Blowing with high impact compressed air nozzles and tilting ramp;
- Flushing (static and dynamic);

In addition to the automatic mode the operator can also:

- Wash with spray gun;
- Dry with blow gun;

An intuitive "operator panel" allows easy functionality checks and custom washing cycles, characterised by different time and sequences phases.

Datasheet

Dimensions	(2400x1250x2440) mm/(94.49x49.21x96.06)"
Height of bathtub	950 mm/37.40"
Dimensions of basket	(830x500) mm/(32.68x19.68)"
Maximal length of part to wash	280 mm/11.02"
Maximum load of basket	400 N
Capacity of process bathtub	350 lt/76.99 gal
Capacity of demineralised water tank	75 lt/16.50 gal
Capacity of wastewater tank	33 lt/7.26 gal
Power supply	400 V/50 Hz three phases + neutral + ground
Installed electrical power	28.0 KW
Maximal temperature of detergent solution	60°C/140°F
Maximal temperature of demineralised water	60°C/140°F
Pneumatic supply	Compressed air at 7 bar, Ø ½"
Water supply	Mains water, 1 bar, Ø ½"
Supply connection of vapors extraction	Ø 150 mm/Ø 5.90"
Capacity of vapors extraction at closed doors	200 mc/h
Capacity of vapors extraction at opened doors	500 mc/h
Weight of washing machine (empty)	8000 N



Equipment

Standard	
Warming of detergent solution	Extractor of vapors
Handling system for basket up/down	Filling circuit and manual establishment level
Hydrokinetic washing circuit with filtration	Internal main water circuit
Frontal sight glass with vertical sliding	Internal compressed air circuit
Fold away door	Internal wastewater circuit
Internal lighting of cabin	
Optional	
Ion exchange softner to produce softened water (washing and/or rinsing)	
Demineralised at reverse osmosis to produce demineralised water (rinsing)	
Ultrasound generator system (4000 W) (25 or 40 kHz)	
Automatic establishment level in the process bathtub	
Automatic dosage system of detergent	
Notification system of minimal level detergent	
Revival wastewater circuit (storage tank with level-switches and electric pump to relaunch)	
Mobile injection bar for automatic rinsing (height-adjustable)	
Mobile bar for automatic blowing (height-adjustable)	
Manual washing circuit	
Manual rinsing circuit	
Automatic flushing circuit (excepted flexible tubing to connect with detail)	
Manual blowing circuit	
Mist separator with cartridge	
Recirculating and auxiliary filtering circuit (with single or double cartridge filter)	
Filtering with cartridge (single or double) on a recirculated auxiliary circuit (the choice of filtration state is free)	
Filtering with cartridge (single or double) on an automatic or manual rinsing circuit (the choice of filtration state is free)	
Filtering with cartridge on a manual washing circuit (the choice of filtration state is free)	
Filtering with cartridge on flushing automatic circuit (the choice of filtration state is free)	



Skills

Safety

Contacts between operator and moving parts of washing machine are not allowed by the presence of sensors.

Environmental protection

The adoption of a vapor extractor with a coalescent filter, a drop-block inferior and the great standard quality used to create the external panelling give a high level of safeguarding of the environment.

Ease of use

The operator's interface, characterised by a clear and intuitive diagram, makes the use of the machine, its functional testing and maintenance, very easy.

Ergonomics

The height of bathtub, the presence of fold away door with a large glove box and the position of the commands near the operator's area are designed to respect ergonomics of the machine during all operative phases.

Compactness

The size of machine is significantly low, this makes easy its installation in very tightened workplaces (excluding water treatment groups (optional)).

Versatility

The number of suitable options and the flexibility of washing cycles management software makes the cabin extremely versatile.

Reliability

High standard quality, used during design and building phases, gives an elevate level of reliability.

Maintainability

Diagnostic in the operator's panel, high facility to manage "exits" and "enters" of plc, distance between machine's components allow an extremely simplified maintenance activity.

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