

BOCETTI S.R.L.

WASHING
CABIN FLC 75



The washing cabins of the **FLC 75** series, with their extreme versatility, represent, in many industrial fields, the ideal solution for the removal of chemical and particle contamination from the surfaces of various mechanical parts during both **inter-operational cleaning and finishing activities**.

The Washing Cabin, through the front "vertical sliding" door, can be manually loaded with the parts to be processed and then used in a dual mode: automatic or manual.

The automatic washing cycles consist of the following phases, with configurable times and sequences:

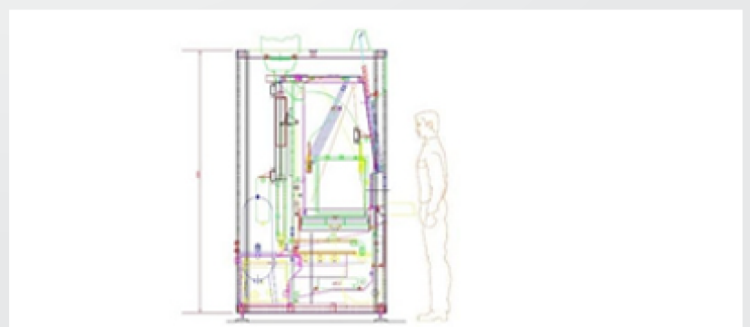
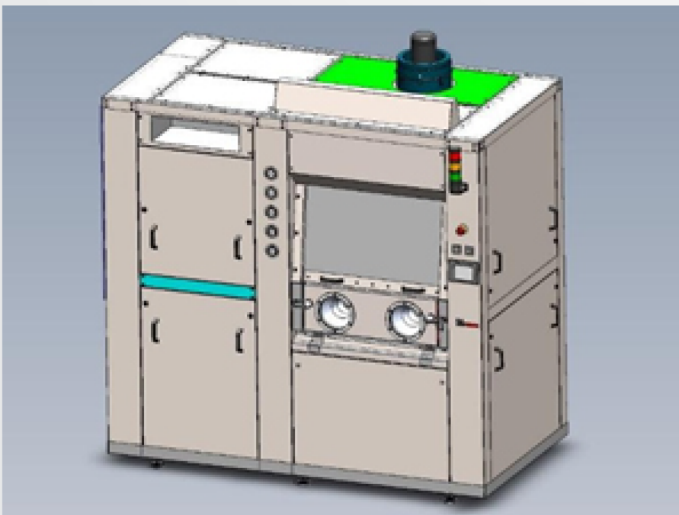
- ✓ Washing in immersion in detergent solution, hot, with hydrokinetic action (pre-US);
- ✓ Washing in detergent solution immersion, hot, with ultrasonic activation;
- ✓ Washing in hot detergent solution with hydrokinetic action (post-US);
- ✓ Spray rinsing, hot (with disposable water) and tilting ramp;
- ✓ Blowing with high-impact compressed air nozzles and tilting ramp;
- ✓ Flushing (static and dynamic)

In manual mode it is possible to perform:

Spray washing gun ✓

Channel flushing
(with dedicated equipment) ✓

Drying with a blowgun ✓



WASHING CABIN FLC 75

STANDARD EQUIPMENT

| |
|---|
| Front loading door with sight glass and "door closed" safety sensor |
| Up/down basket handling system |
| Touch Screen operator panel |
| Detergent solution thermoregulation system |
| Hydrokinetic washing circuit with filtration |
| Recirculation circuit with filtration |
| Level controls |
| Manual filling and level reset circuit |
| Mobile upper blowing ramp (adjustable in height) |
| Internal cabin lighting (process compartment) |
| Coalescing extractor fan for vapour extraction |
| Lower antistillicide tank |

A large number of "options" allow the washing cabins to be configured to increase their performance and make them more suitable for specific production requirements.

The washing cabins of the **FLC 75** series, which are more equipped with optional elements, offer the great advantage of being able to carry out, automatically and in a single process compartment, immersion washing with hydrokinetic action and ultrasound activation, spray rinsing, final blowing as well as manual washing, rinsing and channel flushing using glove boxes, bellows gloves and specific washing equipment.

OPTIONAL EQUIPMENT *

| | |
|-----------|---|
| A | Ion exchange softener for softened water production (washing and/or rinsing) |
| D | Reverse osmosis demineraliser for demineralised water production (rinsing) |
| US | Ultrasonic generation system (specific power approx. 15W/lit) at 25 or 40 kHz |
| R | Final rinse system (circuit, mobile tank/partition, filtration and spray ramp) |
| L | Automatic level restoration system in the process tank |
| 1 | Automatic detergent dispensing |
| 2 | Warning system for low level of concentrated product |
| 3 | Glove Boxes |
| 4 | Manual wash circuit with filtration |
| 5 | Manual rinse circuit with filtration |
| 6 | Automatic flushing circuit with filtration (excluding connection hoses) |
| 7 | Manual blowing circuit |
| 8 | Cartridge de-oiling system |
| 9 | Wastewater return circuit (storage tank with level controls and electric return pump) |

* Optional equipment

- A-D** The softener and demineraliser allow the production of ever purer washing water. Their use is particularly recommended for finishing washes and to ensure that the washing circuits remain clean over time. The equipment, which can be used individually or in combination, is supplied separately from the washing machine and installed on a special technical module to be placed near the washing machine.
- US** The ultrasonic wave generation system is suitable for all contamination particularly adherent to the surfaces of the mechanical parts to be treated. With the same installed power, the Ultrasonic system can be supplied at low or high frequency (25 or 40kHz).
- R** This system enables spray rinsing (with disposable water) to be carried out by means of a mobile spray ramp and a recovery tank/partition, without altering the concentration of the washing bath.
- L** The system consists of a solenoid valve which, in combination with N°2 level controls ("low level" and "max. fill level"), allows automatic level reset of the washing bath.
- 1-2** A volumetric dispenser, with 0-10% adjustment, sucked directly from the detergent tank that can be positioned inside the washing machine, can be combined with the use of a special "tank cap" containing a "detergent reserve" signal level switch.
- 3-4-5-6-7** This equipment is basically linked to all the manual operations that you may wish to carry out on board the Washing Booth. The various circuits can be equipped with both two-stage and more or less stringent filtering sections.
- 8** A branch of the recirculation and filtration circuit can be equipped with an oil separator containing a special cartridge made of oleophilic fibres capable of absorbing the residual oils present in the wash water.
- 9** The "Wastewater circuit" is useful whenever the Washing Booth is equipped with option R (Disposable Rinsing System) and there is no sewage sump in its immediate vicinity.

WASHING CABIN FLC 75

| GENERAL TECHNICAL CHARACTERISTICS WASHING MACHINES FLC 75 (Full Optional) | |
|---|--|
| Overall dimensions | 2400 x 1250 x (h)2500mm (floor standing) |
| Tub edge height (from raised floor) | 950 mm |
| Basket dimensions | 750 x 400mm |
| Max. workpiece height | 250mm |
| Max. workpiece basket load | 40 daN |
| Process tank capacity | 350 lt |
| Demineralised water tank capacity | 75 lt |
| Waste tank capacity | 33 lt |
| Electrical power supply | 400V – 50Hz three phases + neutral + ground |
| Installed electric power | 28.0 kW |
| Max. Temp. detergent solution | 85°C |
| Max Temp. demineralised water | 60°C |
| Pneumatic power supply | Pressurised air a 6 bar, Ø ½" |
| Water supply | Mains water, 1 bar, Ø ½" |
| Vapour extraction flow connection | D150 mm |
| Steam extraction flow rate with closed doors | 200 mc/h |
| Steam extraction flow rate with open doors | 500 mc/h |
| Weight of washing machine (net) | 800 daN |



Strengths:

1 – SAFETY

The presence of the magnetic safety lock, which prevents any connection between the operator and the process tank, makes the use of the washing machine extremely safe.

2 – RESPECT FOR THE WORKING ENVIRONMENT

The special "coalescence filtration" of the emitted vapours, the anti-hydration tank and the integral insulated panelling of the washing machine guarantee a high level of protection of the working environment.

3 – EASE OF USE

The clear and intuitive graphics of the Touch Screen operator panel simplify all the command and control actions of the Washing Machine.

4 – ERGONOMY

The height of the tank edge, the position of the lid handle and the concentration of all the controls near the "operator station" guarantee maximum ergonomics of the washing machine.

5 – COMPACTNESS

The optimisation of the spaces, used to define the internal layout, has made it possible to achieve a reduced "machine footprint", simplifying installation even in tight working environments.

6 – VERSATILITY

The large number of optional equipment makes the Washing Machine extremely flexible

7 – RELIABILITY

Top quality electromechanical components and effective design solutions give the washing machine a high degree of reliability.

8 – EASY MAINTENANCE

The diagnostics available on the operator panel and the possibility of monitoring PLC "inputs" and "outputs" contribute, together with the effective arrangement of the electromechanical components on board the machine, to simplified maintenance activities.



BOCETTI S.r.l. with YOU since 1970

Administration and plant
Via della Libertà, 47/49
10095 GRUGLIASCO (Torino - Italia)
Tel. 0039 011.789598 / 7801386 Fax 0039 011.7803829



info@bocetti.com
www.bocetti.com