

Ecomat 600

Type of construction

The modular system consists of standardized units. All major components that come into contact with the treatment liquid are of stainless steel construction. The design also meets all environmental protection regulations in force.

The stable base frame makes it easy to transport the system fully assembled, which dramatically reduces the setup and startup time. The entire control technology (SPC, control and operator elements) is integrated into the system, allowing users to perform a preliminary startup under real-world production conditions. And the user-friendly visualization software makes operating the system a breeze.

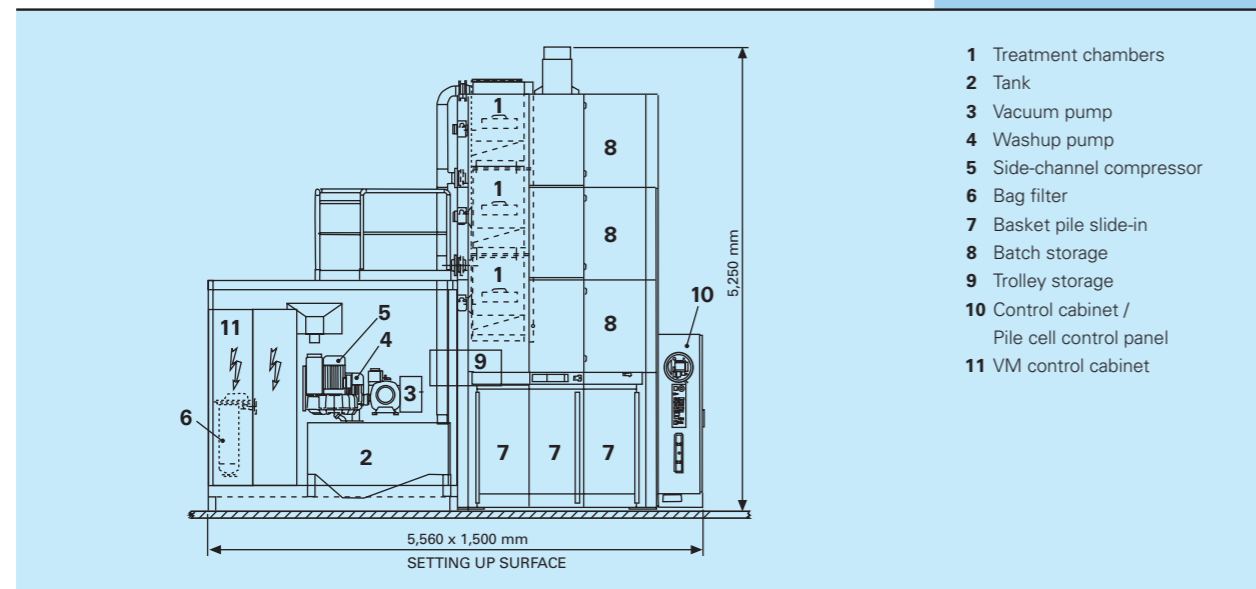


Specifications

System dimensions:	
Length:	5,720 mm
Width:	1,400 mm
Height:	5,250 mm
	(with 3 treatment chambers)
Weight: approx. 5,000 kg (empty)	
Batch size:	
Length:	600 mm
Width:	400 mm
Height:	300 mm
Batch weight: 50 kg	
Electrical connection values:	
Connected load:	approx. 50 KW
Water consumption:	approx. 5 l/h
Compressed air consumption:	approx. 2 Nm ³ /h
Tank volume: 2,000 l	
Sound level: 75 dB(A)	

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- 1 Treatment chambers
- 2 Tank
- 3 Vacuum pump
- 4 Washup pump
- 5 Side-channel compressor
- 6 Bag filter
- 7 Basket pile slide-in
- 8 Batch storage
- 9 Trolley storage
- 10 Control cabinet / Pile cell control panel
- 11 VM control cabinet



Ecoclean



Ecomat 600

Cleaning Technology.
Worldwide.

Ecomat 600

The Ecomat system, developed by Felsomat and Dürr Ecoclean, combines the latest wash technology with a flexible storage and retrieval cell to clean and dry workpieces in baskets without manual stacking and de-stacking, and without the floor-space requirements of traditional solutions.

Degreasing and automation in a single package!

The cleaning system

The treatment and supply modules integrate cleanly with the storage and retrieval cell by simply hooking in on the side. The convenient design allows any number of modules to be used in any position. The number of treatment modules is determined by the system's cycle time.

The basic model of the Ecomat 600 consists of one treatment module that provides injection flood washing, spray cleaning, blow-off and vacuum drying in sequence. Up to three treatment modules can be integrated in each cell to achieve cycle times of 1.5 minutes per treatment module.

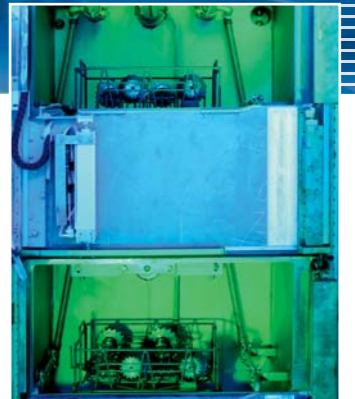
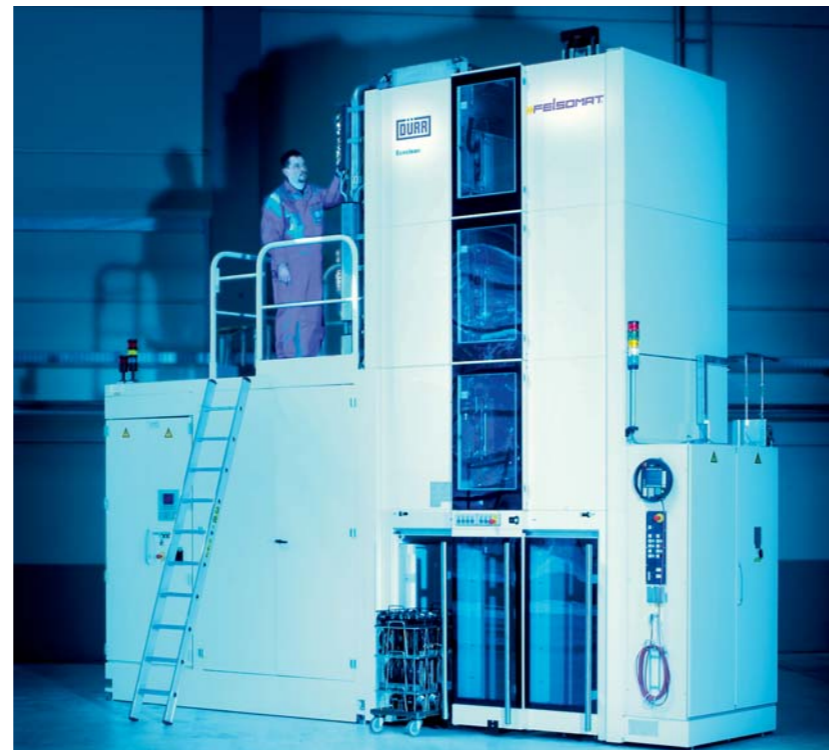
The connecting pipes between the treatment modules and the supply module run along the outer wall of the cell.

The supply module is made up of a stable base frame with an integrated base pan. Containers and units are located inside a sound-insulated cubicle. The central control panel is attached directly to the side frame or rear panel of the cell, making the Ecomat 600 a completely self-contained and compact system.

The FlexCell storage and organization system

Wire baskets, supplied with the Ecomat 600, are stacked onto a wheeled transport cart and docked on a mounting plate in one of the FlexCell's three load/unload chambers. The Ecomat 600 automatically de-stacks the part baskets, cleans the parts, then cleans the transport cart and mounting plate before re-stacking part baskets onto a cleaned transport cart to exit the machine.

The FlexCell's intelligent production management system handles the internal logistics of the part baskets ensuring transparent process organization. An integrated telescopic lift system transports the part baskets within the FlexCell. The lift system moves along three axes and transports the part baskets to the required position – either a buffer storage location or a cleaning module. The transport carts are retrieved and transferred by the same lift system and cleaned in the same manner as the part baskets.



Production and application advantages of the Ecomat:

The Ecomat 600 system is affordable and environmentally-friendly. Patented innovations improve media processing, extend tank life, and improve the treatment of exhaust air.

- Cleaning system and Automation from a single source
- Space-saving combination – approximately 60% smaller footprint compared to conventional solutions
- Parts traceability possible at any time
- Cell contents can be inspected at any time on the control panel
- Automatic management of workpiece stocks and variants
- Largest number of pallets/basket storage spaces in a compact production area
- Increased productivity through reduction of handling
- Modular design – the system can be extended at any time to cater for different types of production
- Central loading and unloading position for the operator
- Closed design prevents oil from escaping and contaminating the production area