

Universal 81W



The Universal Solution



Ecoclean

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The Universal 81W cleaning system is a low-cost, highly efficient system which, owing to its modular design, can be used for a very wide range of applications in cleaning parts. Depending on the features installed the Universal 81W is suitable not only for removing oil and emulsion from mass-produced parts but also for the fine cleaning of assembly parts.

All the cleaning stages use an immersion process and aqueous media. Removal of large quantities of swarf from mass-produced parts and particles of dirt with a defined size in fine cleaning can be achieved by selecting

the appropriate filtering system and other application-dependent optional extras. Different types of optional equipment make it possible to use the Universal 81W cleaning system in numerous areas of metal processing.

Equipment and Process

- Cleaning and drying process in a vacuum-proof work chamber
- Work chamber is fed from the front, manually or automatically
- Automatic work chamber door locking
- Rotation and oscillation movements to support the cleaning and drying effect
- Integrated full-flow filtration
- Integrated oil separator
- Siemens S7 PLC control system for custom programming of process sequences
- Error diagnosis via plain text display on operator control panel
- Closed system housing with maintenance doors for optimum access

Optional Extras

- Third flood tank for additional rinsing or preservation
- Waste water-free operation due to integrated AQUACLEAN treatment unit
- High-power injection flood washing
- Ultrasonic unit
- Vacuum drying
- Cartridge filter for fine cleaning
- Automatic conveyor
- Automatic basket lid placement
- Ion exchanger for demineralisation



Advantages

- Compact design, ready to connect up
- Multi-step washing/rinsing process with hot-air and vacuum drying
- Waste water-free operation
- All parts coming into contact with media are made of stainless steel
- Plenty of scope for expansion due to modular design

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Technical Data

Outside Dimensions of the System

Width	approx. 3,200–4,200 mm (126" – 165")
Depth	approx. 1,800 mm (70.9")
Height	approx. 2,300 mm (90")
Feed height	approx. 850 mm (34")

Basket

Length	approx. 670 mm (26.4")
Width	approx. 480 mm (18.9")
Height	approx. 300 mm (11.8")
Batch weight, max.	150 kg (330 lb)

Throughput depending on work sequence
and treatment time required approx. 8–10 batches/h

Connected Load 3x400V/50 Hz (3x480V/60 Hz)

Total Load

According to equipment 46–77 kW

Working Temperature

Washing, Rinsing approx. 70–80°C (158–176°F)
Drying adjustable up to 130°C (266°F)

Capacity of Standard System

With 2 flood tanks approx. 1,000 l (265 gal)

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