

Universal 81C



The Universal Solution



Ecoclean

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As highly effective cleaning media non-halogenated hydrocarbons allow safe and economical use of solvents for removing oils, greases, emulsions and swarf between or after manufacturing processes.

On account of its many different process variants using hot and/or cold immersion with downline vapour degreasing, the sophisticated technology of the Universal 81C cleaning system is ideal for meeting the requirements expected of modern manufacturing processes with regard to quality and functionality.

Removal of large quantities of oil or swarf from mass-produced parts or 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.



Equipment and Process

- Cleaning and drying process in a closed working chamber
- Circulation filtration
- Injection flood washing
- Emulsion separation
- Manual or automatic feed of the working chamber from the front
- Automatic work chamber door locking
- Multiple monitoring of safety-relevant temperatures and pressures in the tanks
- Rotation and swivel movements to support the cleaning and drying effect
- Continuous solvent treatment by vacuum distillation
- Continuous separation of low boiling substances and water
- Siemens S7 PLC control for individual programming of the process sequences
- Error diagnosis via plain text display on operator control panel (Siemens OP17)
- Minimised energy input due to heat recovery
- Large maintenance and cleaning openings in the tanks
- Closed system housing with maintenance doors for optimum access

Optional Extras

- Second and third flood tanks for precision cleaning and conservation
- Fine filtration by cartridge filter
- Ultrasonic device
- Automatic feed
- Automatic basket lid placement
- Continuous oil discharge
- Modem
- Visualization



Advantages

- Sophisticated, redundant safety equipment for using solvents with a flash point > 55°C
- Operation almost totally emission free, environmentally friendly process
- Selectable water or air cooling
- Vacuum distillation for optimum solvent treatment
- Double filtration of the solvent during filling and emptying of the working chamber

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Technical Data

Outside Dimensions of the System

Width	approx. 5,300 mm (208.7")
Depth	approx. 1,800 mm (70.9")
Depth with automatic feed	approx. 3,150 mm (124.0")
Height	approx. 2,850 mm (112.2")
Feed height	approx. 890 mm (35")

Basket

Length max.	approx. 670 mm (26.4")
Width max.	approx. 480 mm (18.9")
Height max.	approx. 300 mm (11.8")
Batch weight max.	150 kg (330 lb.)
Throughput depending on work sequence and treatment time required	approx. 12 batches/h

Connected Load 3 x 400V/50 Hz (3 x 400V/50 Hz)

Standard System

Motor power	approx. 14 kW
Heating power	approx. 18 kW
Total load	approx. 32 kW

Solvents which can be used

Aliphatic and naphthenised hydrocarbons,
flash point > 55°C

Capacity of Standard System

With 1 flood tank	approx. 500 l (132 gal.)
Distillation unit	max. 370 l (98 gal.)

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