



Ecoclean



ECOCLEAN 179W KVI

Cleaning Technology.
Worldwide.

ECOCLEAN 179W KVI

The Process

The technology embodied in ECOCLEAN 179W KVI systems reflects our extensive experience with cleaning equipment combining injection flood washing and blow drying in a single chamber. With over 100 systems sold, we have amply demonstrated the performance of this technology.

Over long series of trials conducted at Dürr Ecoclean's Technical Center, this process has been refined to perfection. The combination of spray cleaning and injection flood washing ensures that both outside surfaces and hard-to-reach bores and cavities in the components are thoroughly cleaned.

The subsequent high-speed air blowing cycle dries off most of the adhering cleaning medium. Vacuum drying removes any residual moisture from cavities and recesses in the workpiece.

Fields of application

- Complex-shaped workpieces on product carriers, or bulk material in baskets
- Engine parts such as cylinder heads and crankcases
- Transmission components, e.g., housings, gear wheels, spline shafts, etc.
- Large, bulky parts

Technology and methods

Cleaning

- Flow washing:
The workpiece is flushed with a flow of the cleaning medium.
- Spray cleaning:
A spray jet of 15 bar pressure is directed directly at the workpiece.
- Injection flood washing:
The working chamber is flooded with cleaning medium. Turbulent flows are generated by a high-pressure pump via special nozzle systems. The resulting flow movements ensure that the product is thoroughly cleaned both externally and in hidden recesses and cavities.

Drying

- Blow drying:
Application of blowing air to the parts, delivered by a fan. The dehumidified air already has a very good drying effect. On workpieces of simple geometry, this may be enough to achieve complete drying.
- Vacuum drying:
Ensures 100% drying, even with complex-shaped workpieces.

Workpiece movement

The workpieces can be moved in various ways inside the working chamber. Depending on the workpiece type and cleaning requirement, several movement parameters (no movement, swivelling through small angles, swivelling through large angles, complete rotation) can be preset.

The sequence and duration of the various cleaning and drying processes can be individually adjusted via an operating panel in the switchgear cabinet.

- All media-wetted components are made of stainless steel to maximize the service life of your ECOCLEAN 179W KVI installation
- Guaranteed noise level below 78 dB(A) due to enclosure and fully encapsulated design
- Each system comes with its fully integrated control and switchgear package. This permits a preliminary start-up in our factory and facilitates commissioning at the customer's site.
- Easy accessibility of the cleaning system and all subassemblies for optimum maintenance and routine servicing of your ECOCLEAN 179W KVI system.



Technical data

Equipment specifications

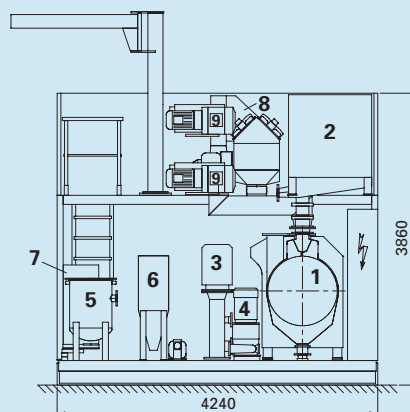
Length	4,240 mm
Width	2,100 mm
Height	3,860 mm
Weight*	12,000 kg
Connected electrical load	140 kVA

Workpiece specifications**

Length	1,200 mm
Width	625 mm
Height	520 mm
Weight	max. 500 kg
Throughput	max. 6 pcs./h

* dry

** depends on height over conveyor and width/height ratio



- 1 Treatment chamber
- 2 Tank
- 3 IFW-pump 15 bar
- 4 Return pump
- 5 Filter
- 6 Aquaclean system
- 7 Dosing unit
- 8 Ventilator
- 9 Vacuum pump

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