

pero



Cleaning with
solvents

R2 CLEANING PLANT

HIGHEST FLEXIBILITY WITH MAXIMUM THROUGHPUT



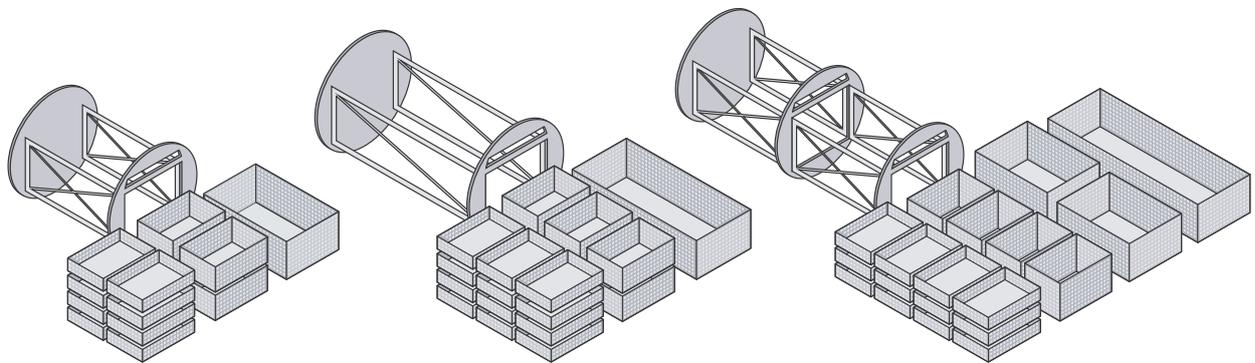
**FLEXIBLE
AND POWERFUL**

Exemplary illustration

FLEXIBLE AND POWERFUL

Due to its design and sophisticated process technology, the R2 achieves peak values regarding throughput and quality of cleaning. At the same time, there are advantages in terms of energy use.

The volume in the work piece carrier and the cycle time of the cleaning batch determine the performance of an advanced parts cleaning plant. Various work chamber sizes make the R2 the most flexible cleaning plant in its category.



Standard chamber

Possible stack height: 400 mm*

B chamber

Possible stack height: 400 mm*

D chamber

Possible stack height: 400 mm*

*) Exemplary possibilities. Combinations of the goods carriers, stackability and lanes are to be checked in the individual case.

PROVEN QUALITY

The plants of the R2 series use the strengths of solvents to clean and degrease components. From all the common solvents the ideal one for the respective cleaning task and contamination can be chosen.

- + Excellent cleaning quality and highest productivity already in standard model. Permanent full-flow filtration of the medium. In addition, the medium in the baths can be filtered in the bypass
- + Operation under full vacuum protects the cleaning medium and minimizes solvent consumption
- + Can be adapted to individual cleaning tasks by means of optional equipment
- + Whether 1-bath, 2-bath or 3-bath model: excellent accessibility for optimized service and maintenance work



ECOLOGICAL & ECONOMICAL

All process steps take place under full vacuum. This supports cleaning in solvents, reduces energy consumption and allows short cycle times with maximum safety.

- + High degree of technical cleanliness by combining the processes of cleaning, rinsing, vapour degreasing and optional ultrasound cleaning and/or preservation against corrosion
- + Integrated maintenance programs automatically maintain the cleaning medium and filter and thus ensure high cleaning quality and availability
- + Heat output is adjustable as needed via energy manager – maximum energy efficiency
- + Future proof reliability for the Universal model: can optionally be modified easily to alternative solvents
- + Protection of staff and environment due to redundant process monitoring. Benefits of solvent used in a circuit



Filter monitoring and drying



Goods carriers inlet from the production, one-lane



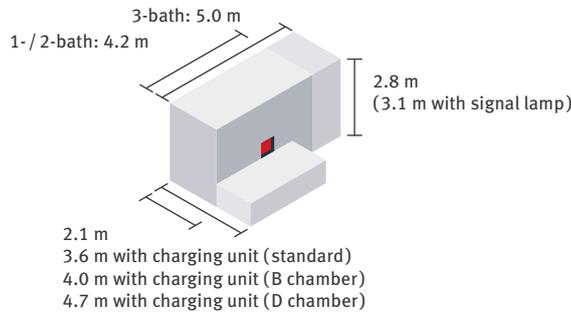
Goods carriers outlet, two-lane, double-layer



Adaptable to individual requirements

TECHNICAL DETAILS

External plant dimensions



Cleaning medium	
Hydrocarbons or modified alcohols with flashpoint > 55° C; halogenated hydrocarbons; further solvents on request	
Batches / Goods carriers	
Standard external dimensions (LxWxH), max.	660 x 480 x 300 mm (Standard) 1,000 x 480 x 300 mm (B chamber) 1,340 x 480 x 300 mm (D chamber)
further sizes or combinations on request	
Batch weight, max.	200 kg
Height of charging unit	810 mm
Throughput	
Depending on process chosen	up to 16 batches / h with a max. of 70 kg steel

Performance data	
Connected load	approx. 43 – 66 kW
Heat output	10 / 20 / 30 kW, selectable (energy manager)
Heating-up time of plant	approx. 90 – 120 min
Sound level	< 75 dB(A)
Solvent volume 1-bath	530 l
Solvent volume 2-bath	930 l
Solvent volume 3-bath	1,320 l

Options	
e.g. ultrasound, remote maintenance, preservation bath, etc.	

All the data are approximate figures - Errors and omissions reserved

COMPETENCE CENTRE

FOR THE TECHNICAL CLEANLINESS OF COMPONENTS

More than **15 demonstration machines** available in our 1,100 square meter Competence Centre, allowing you together with our Pero engineers to develop the optimum cleaning process for your company.

Cleaning process with

Water based media

- + Batch facilities for quality carriers up to 660 x 480 x 300 mm
- + Tunnel cleaning plants
- + Cleaning systems for large components up to a width of 2,100 mm and a weight of 1,500 kg

Solvents

- + Comparing different media
- + Testing alternative cleaning processes
- + Seeing the appropriate handling of parts

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MAKING USE OF STRONG PERFORMANCE

- + Free cleaning tests on original dirty parts including documentation
- + Evaluations and analyses of cleanliness according to VDA 19 in **our laboratory**
- + Technological insight and valuable data for your company

Even before you have decided about the investment, assessing the profitability of the future process can be carried out. The defined technical cleanliness of the components reliably reached and maintained.

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