

*Pero*

# R1

Industrial parts cleaning machine with solvents



Fast and economical

# R1 FAST AND ECONOMICAL

Thanks to its highly efficient process technology and low energy consumption, the R1 offers excellent cleaning results combined with high throughput.

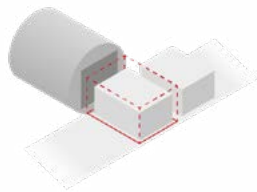
## CHOOSE FROM THREE WORKING CHAMBER SIZES

Choose from a range of chamber sizes in combination with standardised basket systems to achieve the throughput rate you need – our technicians would be delighted to advise you.

### R1

#### Standard chamber

Length of basket holder in working chamber up to 20.87 in

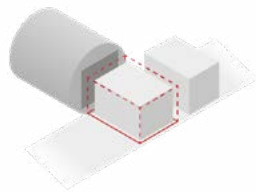


Max. load dimensions (L x W x H):  
1 x 18.90 x 12.60 x 7.87 in, or  
1 x 20.87 x 12.60 x 7.87 in

### R1A

#### Large-volume chamber for high throughput

Length of basket holder in working chamber up to 20.87 in

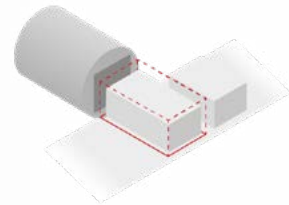


Max. load dimensions (L x W x H):  
1 x 20.87 x 14.37 x 9.84 in, or  
1 x 20.87 x 12.60 x 11.81 in

### R1B

#### Large-volume chamber for high throughput

Length of basket holder in working chamber up to 25.20 in



Max. load dimensions (L x W x H):  
1 x 25.20 x 12.60 x 7.87 in, or  
1 x 20.87 x 12.60 x 7.87 in

## PROVEN QUALITY

The machines of the R1 series make use of the specific properties of solvents for the cleaning, degreasing and/or preserving of parts. Operators can choose from a range of conventional solvents that achieve optimum cleaning results, taking into account the actual level of contamination of the parts.

- **High availability** High availability thanks to top-quality, standardised and tested components from leading manufacturers
- **Perfect media treatment** with permanent full-flow filtration
- **Saving costs** with Pero full vacuum technology with extra low solvent and stabilizer consumption
- **Flexibility** thanks to modular machine extensions
- **Unrivalled operator comfort** thanks to automated, timer-controlled maintenance routines



## 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 level of technical cleanliness thanks to combined **cleaning, rinsing** and **vapor-degreasing** processes  
Optional: ultrasound cleaning and/or preservation
- **Small footprint**
- **Maximal energy efficiency:** heating output controlled by Energy Manager
- Model "Universal" for exceptional **future security:** allows optional modification from CHC to alternative solvents such as hydrocarbons or modified alcohols
- Redundant process monitoring combined with fire and explosion protection equipment **protects humans and the environment**



Example of cleaning process with a defined technical cleanliness standard



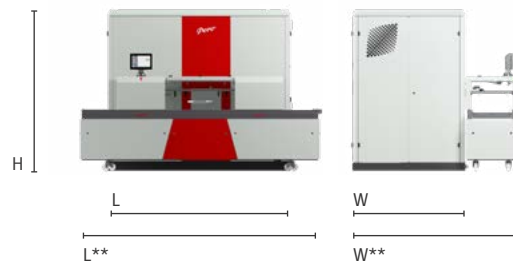
Filter monitoring and drying



User-friendly control interface

## TECHNICAL DETAILS – R1

External machine dimensions



| R1     | 1/2-Bath | 3-Bath   |
|--------|----------|----------|
| H      | 90.6 in  | 129.9 in |
| L / L* | 102.4 in | 102.4 in |
| L**    | 133.9 in | 133.9 in |
| W      | 63.0 in  | 78.7 in  |
| W*     | 90.6 in  | 102.4 in |
| W**    | 102.4 in | 114.2 in |

\* manual charging unit  
(not illustrated)

\*\* automatic charging unit

### CLEANING MEDIUM

Hydrocarbons or modified alcohols with flashpoint > 131 °F; halogenated hydrocarbons; further solvents on request

### BATCHES / GOODS CARRIERS

|  | R1  |  |
|--|-----|--|
| Standard-external dimensions (L×W×H), max. | R1  | 1× 18.90 × 12.60 × 7.87 in or<br>1× 20.87 × 12.60 × 7.87 in  |
|  | R1A | 1× 20.87 × 14.37 × 9.84 in or<br>1× 20.87 × 12.60 × 11.81 in |
|  | R1B | 1× 25.20 × 12.60 × 7.87 in or<br>1× 20.87 × 12.60 × 7.87 in  |

further sizes or combinations on request

Batch weight, max. 176 lbs

Height of charging unit approx. 29.53 - 37.40 in (depending on height of cleaning batch and charging method)

### THROUGHPUT

Depending on chosen process up to 15 batches / h with a max. 77 lbs steel

### PERFORMANCE DATA

|                            |  |
|----------------------------|--|
| Connected load             | approx. 19 – 28 kW                               |
| Heat output                | 3,3 / 9,9 / 13,2 kW, selectable (energy manager) |
| Heating-up time of machine | approx. 60 – 80 min                              |
| Sound level                | < 75 dB (A)                                      |
| Solvent volume 1-bath      | 55 gal   |
| Solvent volume 2-bath      | 87 gal   |
| Solvent volume 3-bath      | 119 gal  |

### OPTIONS

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

*All specifications are approximate values and may vary depending on equipment – errors and omissions excepted*



## FOCUSED ON OUTCOMES

**At our Centre of Competence in Königsbrunn, we assist you in finding the best cleaning solution for your specific needs.**

More than 15 water- and solvent-based test machines are available in an area of 10,764 ft<sup>2</sup>. We design optimised cleaning methods and programs that meet your needs by performing test runs with your own dirty parts.

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.



### MAKING USE OF STRONG PERFORMANCE

- Cleaning tests free of charge, using parts provided by the customer; including documentation
- Evaluations and analyses of cleanliness according to VDA 19 in our laboratory

Contact us for advice:  
[en.pero.ag/contact-to-pero](https://en.pero.ag/contact-to-pero)

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## RELIABILITY YOU CAN BANK ON



### Safe and reliable

High-precision production and spare parts service



### Quality made in Germany

80% vertical range of manufacture in Germany



### Worldwide sales and service

Global network of certified service partners

*pero*

### Pero Corp.

900(G) River Street  
Windsor, CT 06095  
+1 860 298 0319



[pero.usa@perocorp.com](mailto:pero.usa@perocorp.com)  
[perocorp.com](https://perocorp.com)

*pero*

Hunnenstraße 18 | D-86343 Königsbrunn | +49 8231 6011-0 | [pero.info@pero.ag](mailto:pero.info@pero.ag) | [pero.ag](https://pero.ag)