



SEMICONDUCTOR



GENERAL  
VACUUM



PHOTOVOLTAIC



# ESR THE UNIVERSAL MANAGER

Water-cooled dry vacuum pump ESR  
with superior corrosion resistance



The ESR is perfect for medium to harsh applications with low ultimate pressure. Due to the variable pumping speeds it stands for very flexible usage. Furthermore low noise level and low vibration characterize the ESR series.

## BENEFITS

- Superior corrosion resistance
- High flexibility
- Nickel resistant
- Low vibration
- Low cost of ownership
- Low noise level



Models	ESR20N	ESR30N	ESR80WN	ESR100WN	ESR200WN	ESR300WN	ESR500WN	
Pumping speed in l/min	2,000	3,000	8,500	10,000	20,000	30,000	46,667	
Pumping speed in m <sup>3</sup> /h	120	180	510	600	1,200	1,800	2,800	
Ultimate pressure Pa/mbar	2/2e-2	0.67/6.7e-3	0.2/2e-3	0.2/2e-3	0.13/1.3e-3	0.2/2e-3	0.2/2e-3	
Power at ultimate pressure in kW	0.7	1.7	1.0	1.0	1.1	2.9	3.1	
Cooling water flow l/min	2 - 8	3.5 - 8	2 - 8	2 - 8	2 - 8	3.5 - 8	3.5 - 8	
N2 purge flow Pam <sup>3</sup> /s	19 - 22							
Size in mm	L	695	912	780	780	910	945	1,092
	W	280	400	380	380	380	490	460
	H	370	568	705	705	705	925	925
Weight in kg	90	190	180	180	250	390	500	

All data without guarantee.

## APPLICATIONS FOR ESR

PVD

Ashing

Sputtering

Etching

Load lock

SEM

Ion implant

WF CVD

## APPLICATIONS RANGE



**For further information, technical data or drawings please contact  [components@ebarapm.eu](mailto:components@ebarapm.eu)**

EBARA is a worldwide leading global manufacturer of vacuum and semiconductor systems used in the production of wafers, liquid crystals, solar cells and other products requiring advanced technology.

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EBARA Precision Machinery Europe (EPME) is part of the Japanese EBARA Group and employs more than 170 people in Europe. The portfolio includes dry and turbo molecular vacuum pumps as well as gas abatement systems. In addition, EPME sells state-of-the-art CMP tools, wafer bevel polishing and substrate coating systems. In Europe, EPME has a central warehouse and two overhaul centres for vacuum pumps. EBARA is No 2 on the world market for CMP tools and vacuum pumps.

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