



SEMICONDUCTOR



GENERAL  
VACUUM



PHOTOVOLTAIC



LED



CHEMICAL  
INDUSTRY



ESA

# THE ONE FOR TWO

Water-cooled dry vacuum pump for  
hydrogen processing and large volumes



The ESA is ideally for light to medium duty applications for hydrogen or light gas processing. Also for large volume chambers with harsh special applications. The perfect choice for both conditions.

## BENEFITS

- Best in class hydrogen pumping speed
- Very robust & compact
- Lobe style booster pump



Models		ESA25-D	ESA70W-D	ESA80W-D	ESA100W-D	ESA200W	ESA300W	ESA500W	ESA700W
Pumping speed in l/min		3,000	7,000	8,400	10,000	20,000	28,000	47,000	80,000
Pumping speed in m <sup>3</sup> /h		180	420	504	600	1,200	1,680	2,820	4,800
Ultimate pressure Pa/mbar		4/4e-2	0.27/2.7e-3	0.13/1.3e-3	0.13/1.3e-3	0.53/5.3e-3	0.53/5.3e-3	1/1e-2	0.5/5e-3
Power at ultimate pressure kW*		3.7	7.4	7.4	7.4	3.2	6.6	5.1	7.4
N2 purge flow Pam <sup>3</sup> /s		17 - 20	24 - 27	54 - 57	54 - 57	17 - 20	7.5 - 10.5	8.5 - 11	8.5 - 11
Size in mm	L	1,074	1,060	1,094	1,094	970	1,110	1,110	1,320
	W	394	400	400	400	400	620	620	690
	H	520	820	820	820	835	985	1,045	1,160
Weight in kg		240	380	400	400	410	700	750	1,200

All data without guarantee.

\* rated motor power

## APPLICATIONS FOR ESA

Hydrogen enriched applications

FPD & LCD process

High content of light process gases

Large volumes

## APPLICATIONS RANGE



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

EBARA supports



EBARA Precision Machinery Europe (EPME) is part of the Japanese EBARA Group and employs approximately 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.

**EBARA Precision Machinery Europe GmbH** • Headquarters  
Mühlweg 2C • 82054 Sauerlach, Germany • [info@ebara-pm.eu](mailto:info@ebara-pm.eu)

