

Dry Vacuum Pumps Model EV-M

A new dry pump generation for harsh processes

EBARA is launching a new vacuum pump design for harsh processes. The pumps have smaller dimensions and a 50% lower power consumption than the Model EST. Model EV-M has generally a higher H₂ pumping speed compared to screw pumps.

Applications

- ALD
- Metal Etch
- CVD
- TEOS
- Nitride
- Oxide

Technical Characteristics

- Multi-stage lobe design engineered for harsh application
- Enhanced by-product capability
- Enhanced reliability through high torque motors
- Main pump and booster pump with energy saving DC motors
- Intelligent control system
- Complete pump safeguard system
- Low noise and low vibration
- Adjustable pumping speed by RPM variation
- Very small footprint
- Low consumption of electrical power, cooling water and nitrogen
- Idle mode for additional energy savings

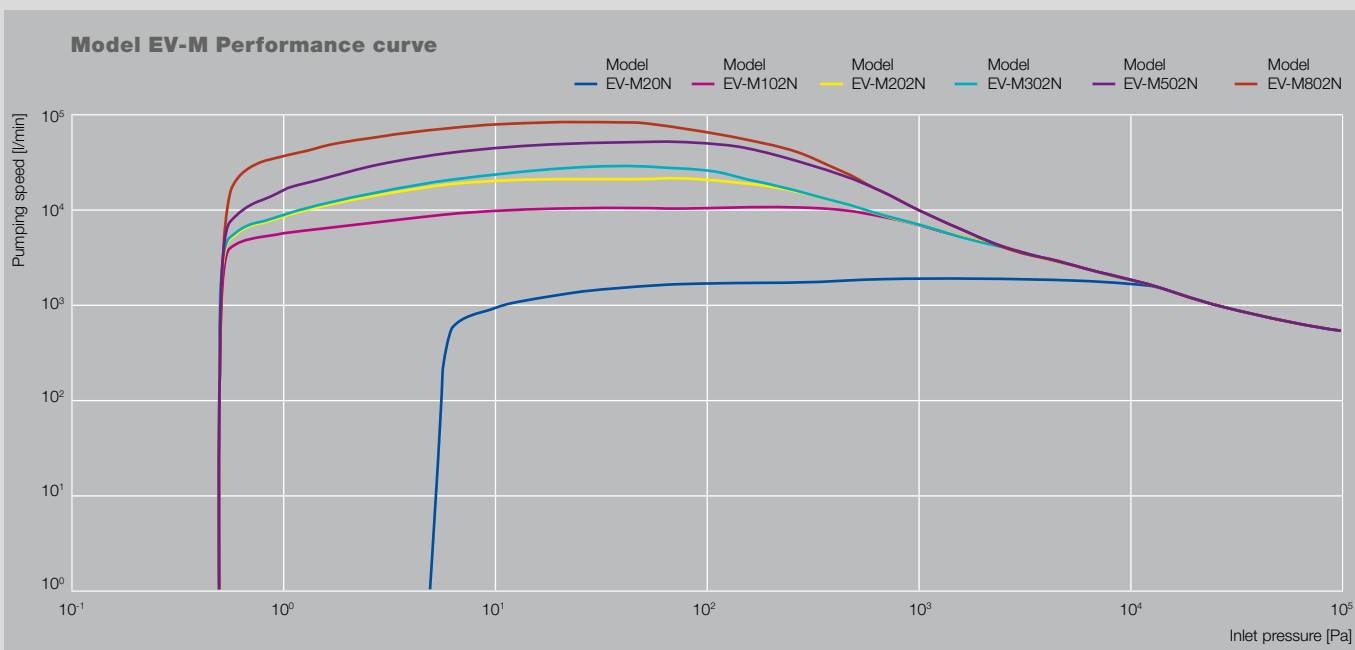


Your Benefits

- Lower power consumption
- Decreased user's Cost of Ownership (CoO) and reduced company's carbon emissions
- Smaller weight and dimensions compared to earlier models
- User friendly
- Higher H₂ pumping speed compared to screw pumps
- Smaller pump dimensions
- Flexible rotation speed and idle mode as standard
- Further power saving
- Oil free
- No hydrocarbon issue in the system
- Highly reliable due to EBARA's experience
- Long lifetime

Technical Data		EV-M20N	EV-M102N	EV-M202N	EV-M302N	EV-M502N	EV-M802N
Pumping speed (N ₂)	[m ³ /h]	108	600	1,200	1,620	3,000	4,800
	[l/min]	1,800	10,000	20,000	30,000	50,000	80,000
Ultimate pressure	[mbar]	5x10 ⁻²		5x10 ⁻³			
	[Pa]	5		0.5			
Voltages ranges	[V]	200–220 / 380–440, 3-ph, 50/60 Hz					
Maximum power	[kW]	2.2	3.8	4.4	4.7	5.7	5.4
Power at ultimate pressure	[kW]	1.2	1.8	1.9	2.5	2.1	2.8
Weight, approx.	[kg]	170	320	360	400	500	740
Sizes (LxWxH), 400 V version	[mm]	820x370x620	810x380x922	870x380x922	961x380x1,000	1,015x485x1,040	1,140x630x1,105
Sizes (LxWxH), 208 V version	[mm]	820x370x525	810x380x827	870x380x827	961x380x905	1,015x485x945	1,140x630x1,105

Model EV-M in this leaflet is our model code.



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