

Dry Vacuum Pumps Model EV-S

New generation of power saving vacuum pumps



The need to reduce energy is a major subject for sustainability. Manufacturers employ large numbers of aging dry vacuum pumps. Depending on the process, the vacuum system alone can contribute up to 60% of the total electricity demand for a process tool. Upgrading the vacuum pumps can reduce the fab's energy consumption and save your money. With Model EV-S EBARA has developed a new and more efficient vacuum pump design which radically reduces the power required. By improving motor efficiencies, increasing the number of compression stages, enhancing motor control and adding intelligent communications, the energy consumption of the dry pump could be significantly reduced, resulting in lower operating costs and improved profitability.

CE Marking / SEMI-S2 / NRTL / SEMI-F47 / IEC61000-4-11 and IEC 61000-4-34 (voltage dips).

Typical Applications

- Load lock
- PVD
- Oxide etch
- Poly etch
- Ashing
- Ion implant
- Poly CVD
- HDP CVD
- W CVD

Technical characteristics

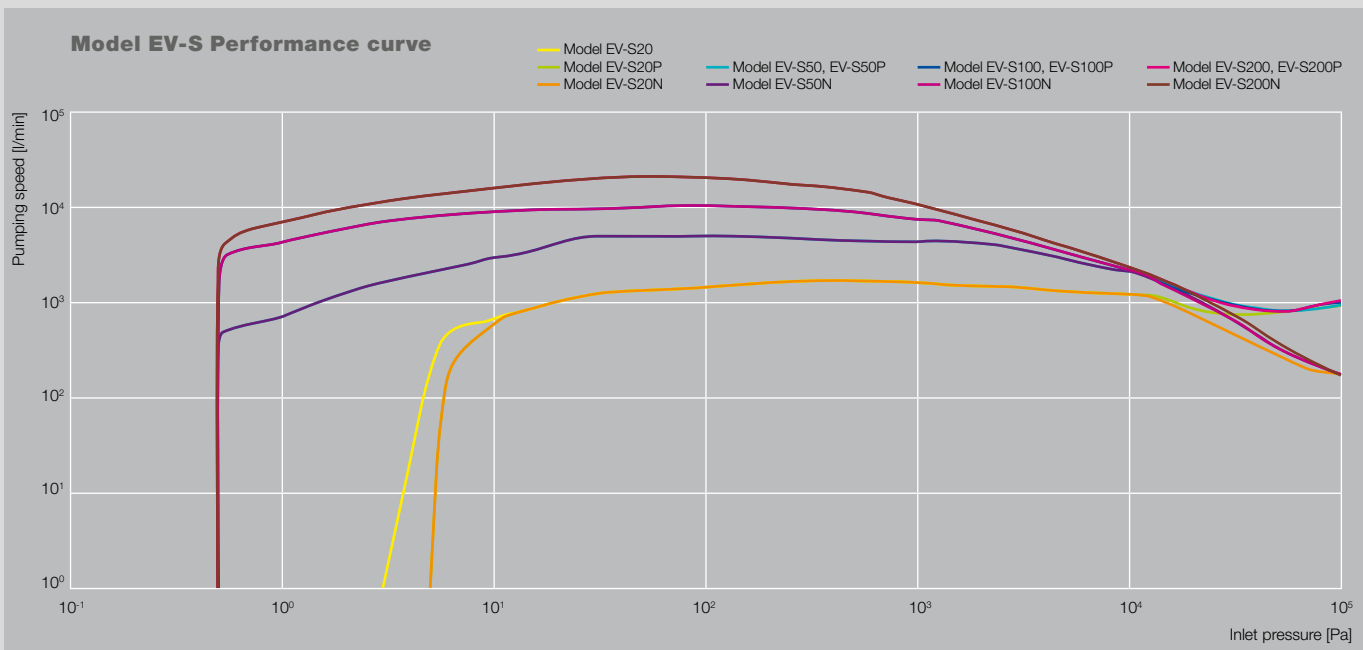
- Highest pumping speed at operation pressure
- Normal and idle operation mode function
- Compact (smallest foot print)
- Lowest Cost of Ownership
- Lowest ultimate pressure
- Less power consumption
- Less noise disturbance
- Lightest in weight

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
- No N₂ purge in clean applications
- No nitrogen required
- Flexible rotation speed and idle mode as standard
- Further power saving

Technical data		EV-S20	EV-S50	EV-S100	EV-S200
Max. pumping speed (N ₂)	[m ³ /h]	100	300	600	1,200
	[l/min]	1,670	5,000	10,000	20,000
Ultimate pressure	[mbar]	3x10 ⁻²		5x10 ⁻³	
	[Pa]	3		0.5	
Power consumption at ultimate pressure	[kW]	0.4	0.55	0.65	0.75
Voltage	[V]	200 to 220 V / 380 to 440 V, 3-phases, 50/60 Hz			
Size WxLxH	[mm]	450x230x275	450x230x520	510x260x520	650x275x580
Weight	[kg]	60	100	120	170
Pump versions are available for load lock, light and corrosive gas applications.					

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



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