



**EBARA**

# EBARA Dry Vacuum Pumps

Model EV-A / EV-SA

**Innovative Technology.**

Compact Air Cooled Dry Vacuum Pump



# EBARA EV-A / EV-SA

The EBARA EV-A and EV-SA series air-cooled dry vacuum pumps have industry-leading specifications. The non-contact, multi-staged roots is designed for reliable, particle-free vacuum generation. Typical applications include load locks, analytical instruments and metrology equipment that require the best vacuum performance and optimum uptime.

Small form factor and air cooling makes facilities hook up easy. The smart choice for applications requiring clean and contamination free environments.




Model EV-SA20


Ideal for Replacing:

Wet pumps - No more frequent oil changes or costly rebuilds

Scroll pumps - Eliminate the hassle of tip seal and bearing changes, base pressure drift

## Features and Benefits

 Energy Efficient Air-Cooled Motors

 Low Noise / Vibration


 Class Leading Water Vapor Pumping

 Non-Contact Design

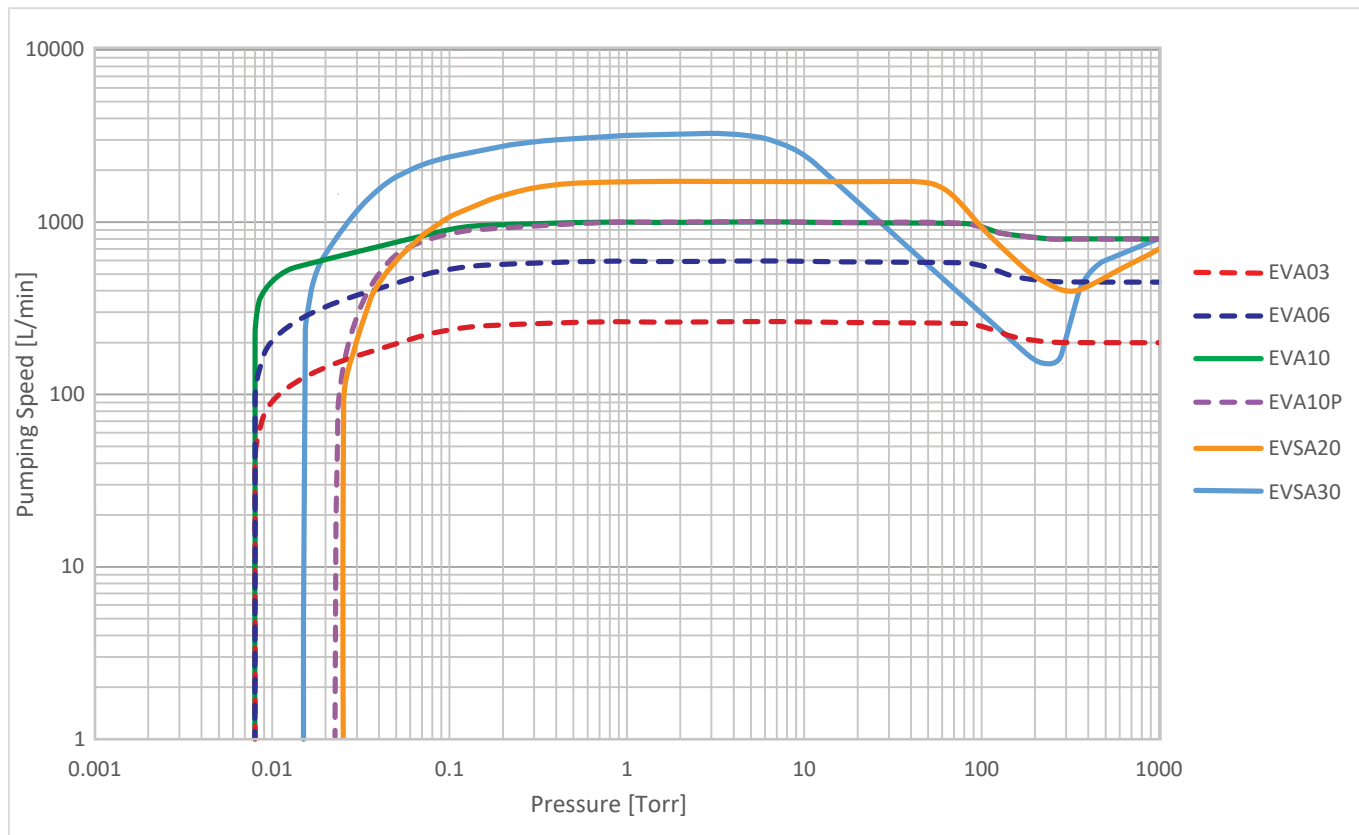
 High Atmospheric Pumping Speeds

 Maintenance Free

 Lowest Cost of Ownership

 Approved CE and NRTL Rated

# Pumping Curves



EV-A03



EV-A06



EV-A10P

## Accessories

### Solvent Traps



Water Vapor Traps



Silencer

### Remote Controller



Gas Ballast Valve

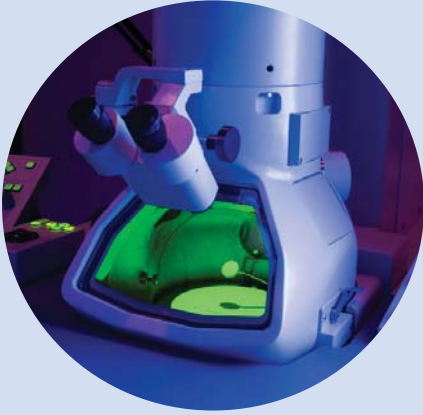
### Casters and Adjustors



Inlet Safety Valve

# Applications

## Instrumentation



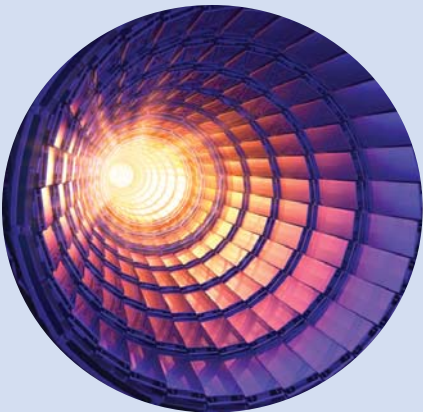
- Turbo Pump Backing
- Analytical Instruments
- Electron Microscopes
- Helium Leak Detection
- GCMS/LCMS Mass Spectrometry

## Industrial



- Glove Boxes
- Vacuum Ovens / Lyophilization
- Sterilizers
- Surface Treatment Plasma Systems
- High Purity Gas Cylinder Filling

## Academic & Research



- Space Simulation Chambers
- Lasers
- Beam Line & Synchrotrons
- R&D Labs
- Battery Technology Manufacturing

*And Many More Applications...*

# Specifications

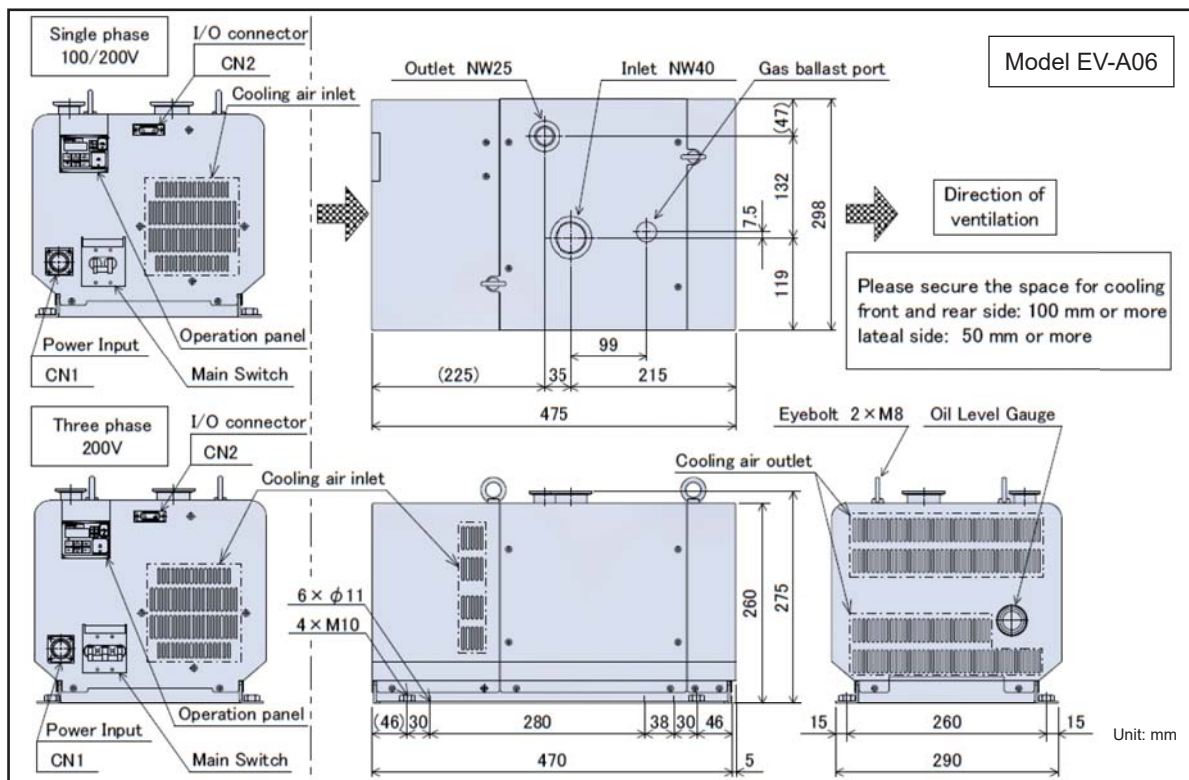
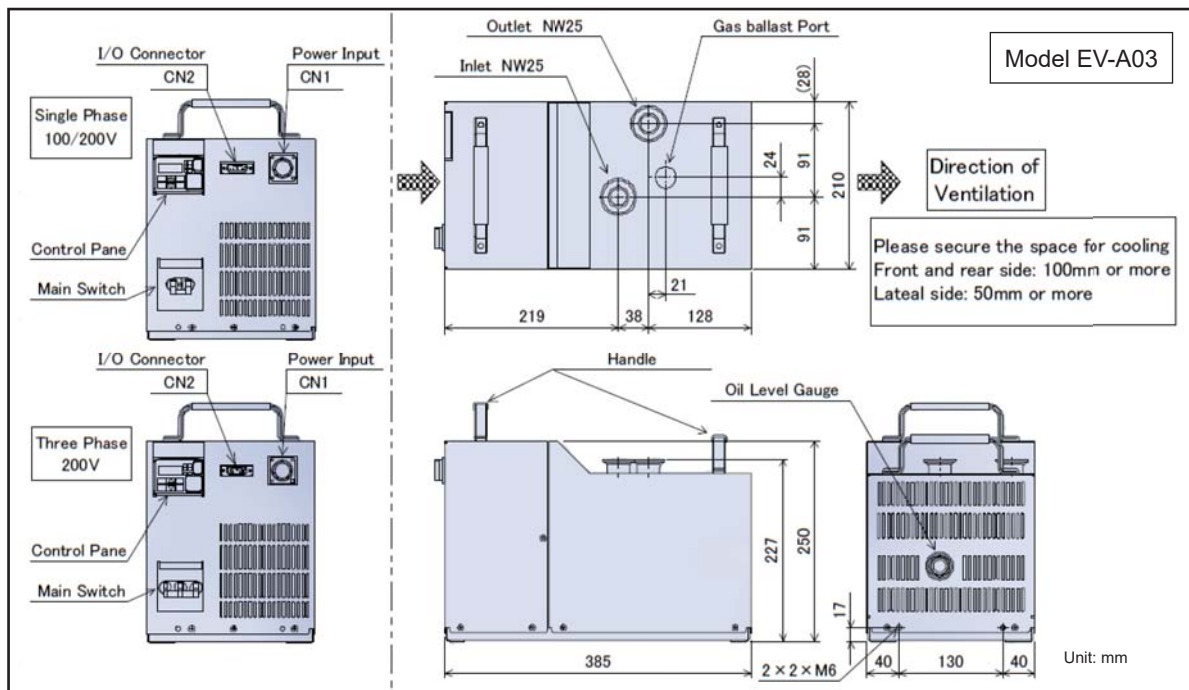
Model			EV-A03	EV-A06	EV-A10/P	EV-SA20	EV-SA30
Pumping speed	Max.	L/min	250	600	1,000	1,670	3,300
		CFM	9	22	36	60	120
		m <sup>3</sup> /hr	15	36	60	100	200
Ultimate Pressure	Gas Ballast: Off	Pa	1.0			3.0	2.0
		mBar	0.01			0.03	0.02
		mTorr	7.5			22.5	15
	Gas Ballast: On	Pa	10.0		3.0	5.0	3.0
		mBar	0.1		0.03	0.05	0.03
		mTorr	<75.0		22.5	37.5	22.5
Max. Inlet Pressure		Atmospheric Pressure					
Max. Water Vapor Pumping Rate (Gas Ballast: On)		g/hr	250	350	500	100	30
Connection	Gas Inlet		NW25	NW40			
	Gas Outlet		NW25		NW40		
Approx. Power at Ultimate Pressure		kW	0.35	0.55	1.1	0.45	0.45
Approx. Weight	kg		23	54	75	65	90
	lb		51	119	165	143	198
Power Supply	[1 Phase/100V model]		1 Phase, 100-115V, 50/60Hz		-----		
	[1 Phase/200V model]		1 Phase, 200-240V, 50/60Hz				
	[3 Phase/200V model]		3 Phase, 200-240V, 50/60Hz				
Airborne Noise Test Data		dB (A)	<56	<57	<58		

## Application Example

EV-A10P set up for water vapor handling



# Drawings



All specifications are subject to change without notice.





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**Patent Pending**

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“Model EV-A” and “Model EV-SA” are our model codes.

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0182-L1211201, Rev. G