E1M18 One Stage, E2M18 Two Stage Rotary Vane Pumps

The EM range of oil-sealed rotary pumps - renowned for their high ultimate vacuum, rapid pumping speed, quiet operation and ability to handle vapour - have become the industry standard for laboratory and light industrial applications.

The E1M18 and E2M18 pumps are direct drive, sliding vane pumps. The pump is oil sealed and designed for reliable, long-term operation. The pump is a freestanding unit with the drive provided through a flexible coupling by either a single-phase or three-phase (four-pole) motor.

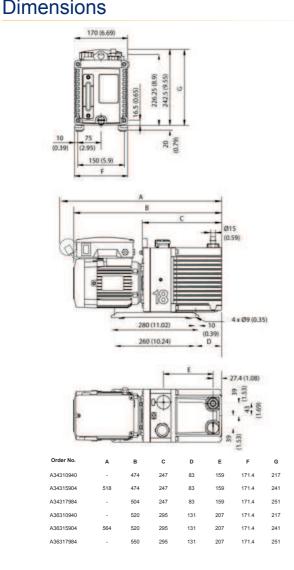


Supplied with: Ultragrade 19 oil, NW25 O-ring and centering ring. Fomblin® must be purchased separately for PFPE pumps.

Features & Benefits

- The pump is designed for reliable, long-term operation.
- Thermal overload device prevents overheating (single phase only).
- The drive is provided through a flexible coupling by a singlephase or three-phase (four pole) motor.
- The motors are totally enclosed and are cooled by the motorcooling fan.
- Pressure die cast oil box with integral oil seals prevents oil leaks.

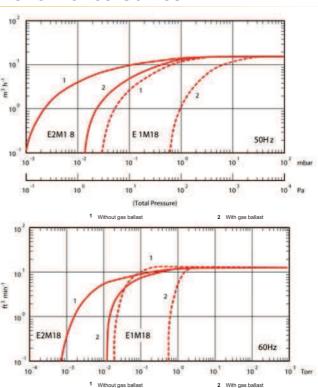
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Applications

- Analytical instruments
- . Leak detectors, Helium
- · Research and development
- Backing Turbomolecular pumps

Performance Curves



	E1M18	E2M18
Displacement (50Hz)	20.5 m ³ h ⁻¹ /	20.5 m ³ h ⁻¹ /
,	12.1 ft min	12.1 ft min
Displacement (60Hz)	25.0 m h /	25.0 m h ³ /
,	14.7 ft min -1	14.7 ft min -1
Speed (Pneurop 6602) 50 Hz	17.0 m ³ h ⁻¹ /	17.0 m ³ h ⁻¹ /
	10 ft ³ min ⁻¹	10 ft ³ min ⁻¹
Speed (Pneurop 6602) 60Hz	20.4 m ³ h ⁻¹ /	20.4 m ³ h ⁻¹ /
	12.1 ft min -1	12.1 ft min -1
Ultimate vacuum (total pressure)		
without gas purge	3 x 10 ⁻² mbar /	1 x 10 ⁻³ mbar /
	2.2 x 10 ⁻² Torr	7.4 x 10 ⁻⁴ Torr
with gas purge	6.5 x 10 ⁻¹ mbar /	1.5 x 10 ⁻¹ mbar /
	4.8 x 10 ⁻¹ Torr	1.1 x 10 ⁻² Torr
with Fomblin®	3 x 10 ⁻¹ mbar /	1 x 10 ⁻² mbar /
Inlet connection	2.56 x 10 ⁻² Torr NW25	7.5 x 10 ⁻³ Torr NW25
illet connection	Nozzle 15 mm	Nozzle 15 mm
Outlet connection	external Ø removable from 3/4 in BSP tapped hole	external Ø removable from 3/4 in BSP tapped hole
Max permitted pressure at outlet	0.5 bar gauge /	0.5 bar gauge /
	7 psig	7 psig
Max inlet pressure	50 mbar /	20 mbar /
for water vapour	38 Torr	15 Torr
Max water vapour pumping rate	0.65 kg h ⁻¹	0.3 kg h ⁻¹
Operating temp range	13-40°C	13-40°C
Nominal Rotation speed 50/60Hz	1440/1720 rpm	1440/1720 rpm
Power connector 1-ph*	IEC EN60320 C19	IEC EN60320 C19
Motor power 50 Hz	0.55 kW	0.55 kW
Motor power 60 Hz	0.75 kW	0.75 kW
Weight	37 kg / 82 lbs	39 kg / 86 lbs
Noise @ 50Hz	57 dB(A)	57 dB(A)
Oil capacity - max	1.4 litre	1.05 litre
Oil capacity - min	0.9 litre	0.75 litre
Recommended oil (supplied)	Ultragrade 19	Ultragrade 19

^{*} Pumps listed with IEC connector only

Ordering Information

No. 940 904
904
184
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