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Small EM Oil Sealed Rotary Vane Pumps



A37132902
E2M1.5 100-120V, 1-ph, 50/60Hz, IEC 60320 connectors

Overview

The E2M1.5 is a small two stage oil sealed rotary vane pump suitable for many bench type applications. The pump features an alternative inlet connection position at the side of the pump so that overall installation height can be reduced to a minimum when required.

The interstage version features an additional pumping port to provide a rough vacuum for auxiliary duties.

Supplied with: Ultrgrade 15 oil, NW O-ring and centering ring.



Technology

This is a two stage oil sealed rotary vane pump which has a pressurised oil system that lubricates the pump shaft bearing surfaces and rotor sealing faces. The pump has an oil distribution valve which prevents discharge of oil to the pump interior (suckback) after the pump stops. The pumping chambers are air-tight, so this arrangement prevents oil suckback unless the gas ballast valve is open.

You can inspect the level and condition of oil in the oil box reservoir through the oil sight-glass. An oil filler-plug is fitted to the top of the oil box. The pump has an oil drain-plug to allow either gravity oil drain or pressure oil drain.

Applications

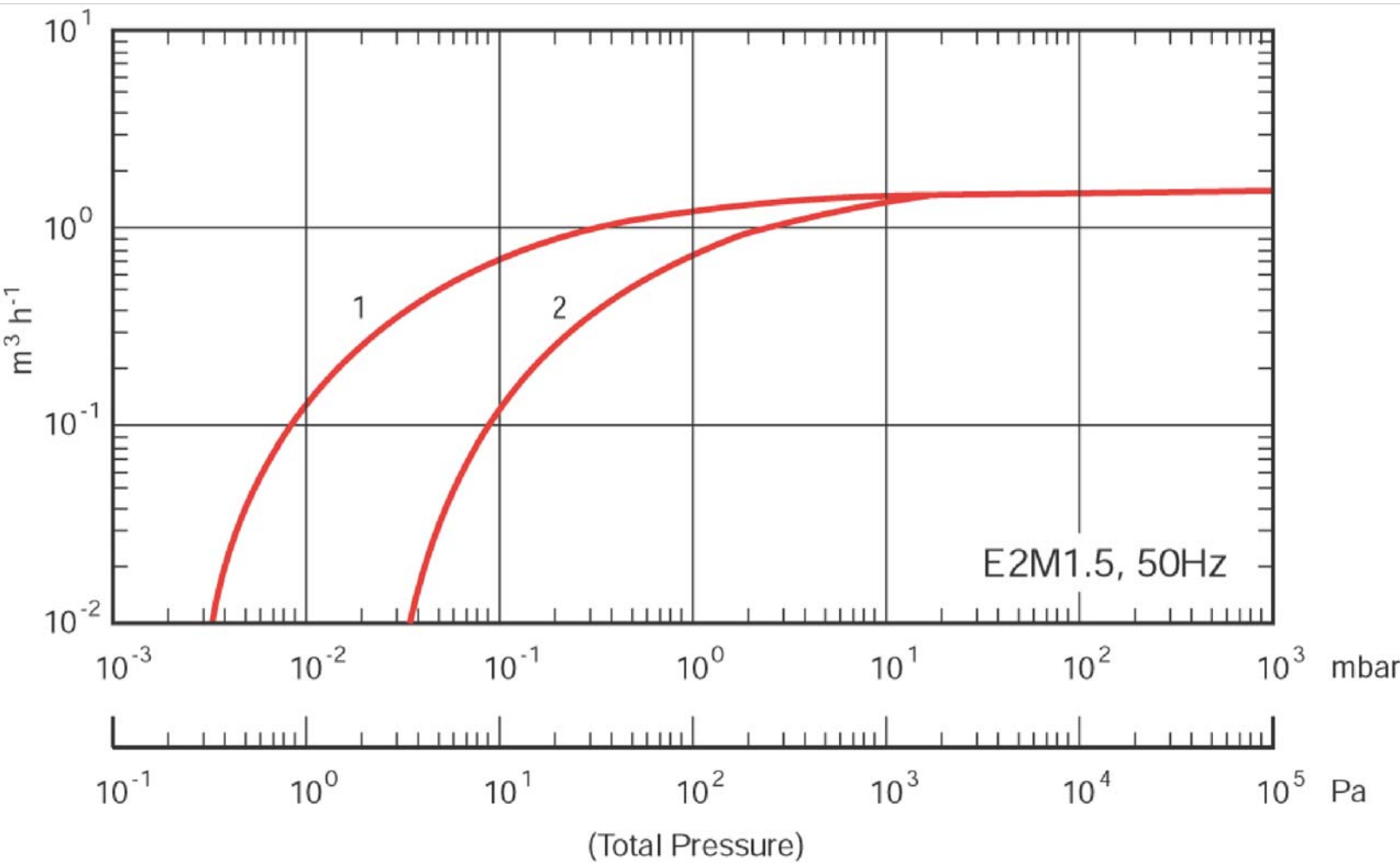
- Analytical instruments
- Laboratory bench top vacuum
- Leak detectors, Helium
- Research and development
- Backing turbomolecular pumps

Features and Benefits

- The pump is designed for reliable, long-term operation.
- Compact dimensions.
- Low energy consumption.
- The interstage version features an additional pumping port to provide a rough vacuum for auxiliary duties.
- The pump is a free-standing unit.
- The drive is provided through a flexible coupling by a single-phase or three-phase (four pole) motor.
- The motors are totally enclosed and are cooled by the motor-cooling fan.
- Easy to use controls
- Pressure die cast oil box with integral oil seals prevents oil leaks.
- Gas ballast valve for large water vapor handling capacity.
- Externally approved to EN61010, CSA, C22.2 and UL61010.

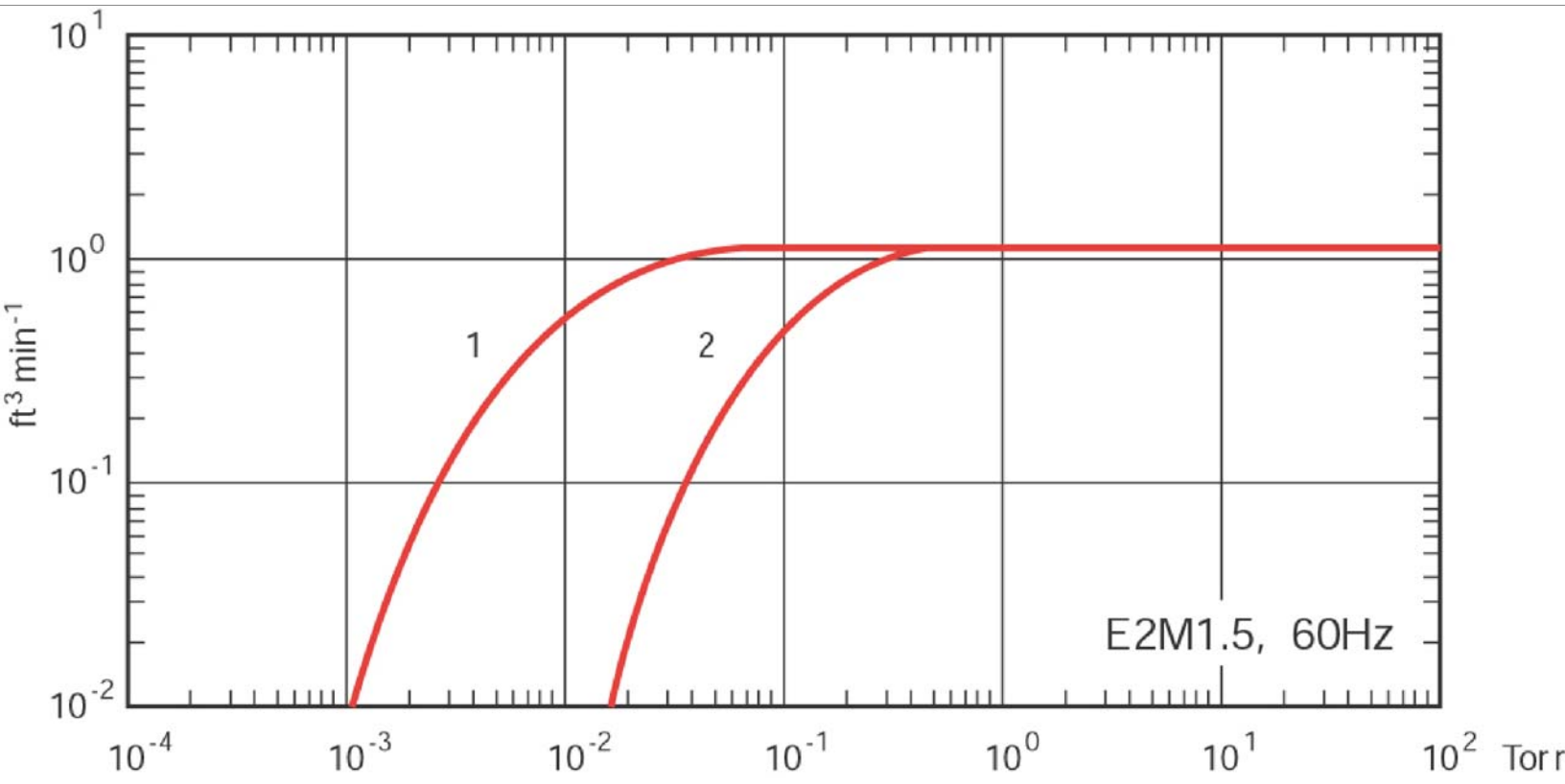
Technical Data

Displacement (swept volume) 50 Hz	1.8 m ³ h ⁻¹ / 1 ft ³ min ⁻¹
Displacement (swept volume) 60 Hz	2.2 m ³ h ⁻¹ / 1.3 ft ³ min ⁻¹
Speed (Pneuop 6602) 50 Hz	1.6 m ³ h ⁻¹ / 0.8 ft ³ min ⁻¹
Speed (Pneuop 6602) 60 Hz	2.0 m ³ h ⁻¹ / 1.2 ft ³ min ⁻¹
Ultimate vacuum (total pressure)	
without gas ballast	3 x 10 ⁻³ mbar / 2.3 x 10 ⁻³ Torr
with gas ballast	2.5 x 10 ⁻² mbar / 1.9 x 10 ⁻² Torr
Inlet connection	NW10 flange
Outlet connection	Nozzle 11 mm external diameter removable from hole tapped 3/8 inch BSP
Maximum permitted pressure at outlet	0.5 bar gauge / 7 psig
Maximum inlet pressure for water vapour	15 mbar / 11 Torr
Maximum water vapour pumping rate	16 g h ⁻¹
Motor power 50/60 Hz (IP54)	0.16 kW
Operating temperature range	12 - 40 °C
Weight	10 kg / 22 lbs
Noise	54 dB (A) @ 50 Hz
Oil capacity - maximum	0.28 litre
minimum	0.2 litre
Recommended oil (supplied)	Ultragrade 15



1 Without gas ballast 2 With gas ballast

Performance



1 Without gas ballast 2 With gas ballast

Performance

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