

# E2M0.7 two stage rotary vane pumps

0.9 m<sup>3</sup>h<sup>-1</sup>, 0.53 ft<sup>3</sup>min<sup>-1</sup>, 15 l min<sup>-1</sup>

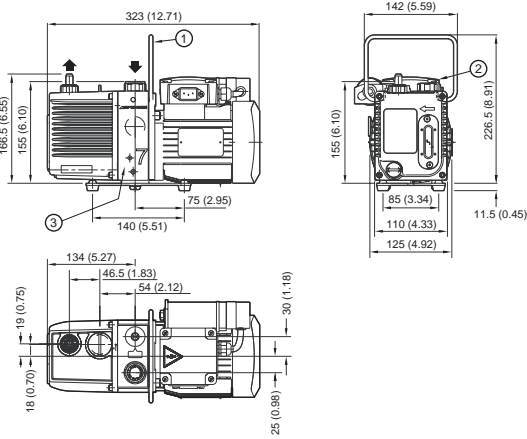
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The E2M0.7 features a very low sound level of only 43 dB(A), compact dimensions, low energy consumption and low operating temperature. It will appeal to scientific instrument manufacturers and laboratory users for backing small turbomolecular or diffusion pumps as well as general laboratory applications. Fitted in a cabinet, the pump will be virtually inaudible and the low operating temperature will minimize the heat load on the equipment. Vertical vacuum inlet with horizontal option.

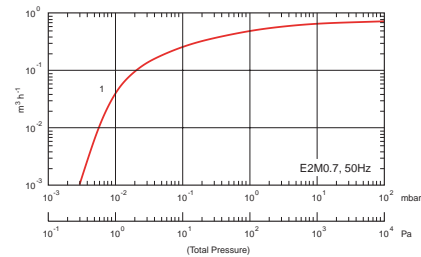
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## Dimensions

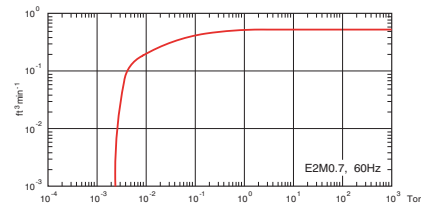


- 1 Handle (can be removed)
- 2 220-240 V motor, B = 161
- 3 Alternative inlet position

## Speed curves



1 50 Hz, without gas ballast



## Technical data

Displacement (swept volume) 50 Hz	0.9 m <sup>3</sup> h <sup>-1</sup> / 0.5 ft <sup>3</sup> min <sup>-1</sup>
Displacement (swept volume) 60 Hz	1.1 m <sup>3</sup> h <sup>-1</sup> / 0.6 ft <sup>3</sup> min <sup>-1</sup>
Speed (Pneurop 6602) 50 Hz	0.75 m <sup>3</sup> h <sup>-1</sup> / 0.4 ft <sup>3</sup> min <sup>-1</sup>
Speed (Pneurop 6602) 60 Hz	0.95 m <sup>3</sup> h <sup>-1</sup> / 0.5 ft <sup>3</sup> min <sup>-1</sup>
Ultimate vacuum (total pressure)	
without gas ballast	3 x 10 <sup>-3</sup> mbar / 2.3 x 10 <sup>-3</sup> Torr
with full gas ballast	2.0 x 10 <sup>-1</sup> mbar / 1.5 x 10 <sup>-1</sup> Torr
Inlet connection	NW10 flange
Maximum permitted pressure at outlet	0.5 bar gauge / 7 psig
Maximum inlet pressure for water vapor	15 mbar / 11 Torr
Outlet connection	Nozzle 11 mm external Ø removable from 3/8 inch BSP tapped hole
Maximum water vapor pumping rate	8 g h <sup>-1</sup>
Motor power	0.09 kW
Operating temperature range	12 - 40 °C
Weight, without oil	10 kg / 22 lbs
Noise	43 dB(A) @ 50 Hz
Oil capacity - maximum	0.28 liter
Oil capacity - minimum	0.2 liter
Recommended oil (supplied)	Ultragrade 15

## Ordering information

### Product description

Product description	Order No.
<b>E2M0.7 pump</b>	
220-230 V, 1-ph, 50/60 Hz, IEC 60320 connectors	A37141919
100-120 V, 1-ph, 50/60 Hz, IEC 60320 connectors	A37141902
Supplied with: Ultragrade 15 oil, NW O-ring and centering ring.	

### Accessories

Accessories	Order No.
EMF3 outlet mist filter	A46220000
3/8 inch BSP to NW10 adaptor	A25908064
<b>2 m electrical supply cable with IEC socket</b>	
UK, three-pin plug	A50505000
North European plug	A50506000
North America/Japan plug	A50507000
No plug	A50508000

### Spares

Spares	Order No.
The clean and overhaul kit contains all of the springs, gaskets, seals and other components required for routine maintenance and whenever the pump is dismantled. Add a blade kit for a full service. Both kits contain instructions and part identification.	
Clean and overhaul kit	A37101131
Blade kit	A37101132
NW10 centering ring and O-ring	C10511396
NW10 O-ring (pack of five)	H02124032

For electrical data, including recommended fuse ratings, see page 1-25. For other accessories, see page 1-25 to 1-28. For rotary pump oils, see page 6-35.

# E2M1.5 two stage rotary vane pumps

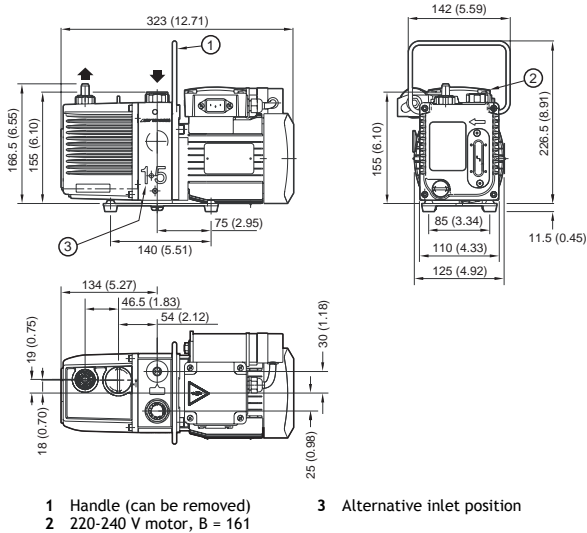
1.8 m<sup>3</sup>h<sup>-1</sup>, 1.1 ft<sup>3</sup>min<sup>-1</sup>, 30 l min<sup>-1</sup>

This two stage 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.

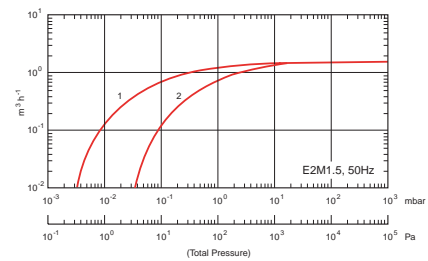
The interstage version features an additional pumping port to provide a rough vacuum for auxiliary duties.



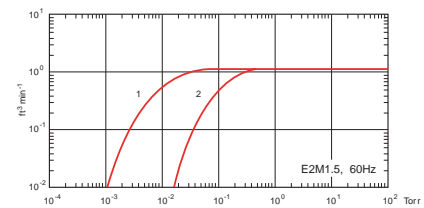
## Dimensions



## Speed curves



1 50 Hz without gas ballast 2 50 Hz with gas ballast



1 60 Hz without gas ballast 2 60 Hz with gas ballast

## Technical data

Displacement (swept volume) 50 Hz	1.8 m <sup>3</sup> h <sup>-1</sup> / 1 ft <sup>3</sup> min <sup>-1</sup>
Displacement (swept volume) 60 Hz	2.2 m <sup>3</sup> h <sup>-1</sup> / 1.3 ft <sup>3</sup> min <sup>-1</sup>
Speed (Pneurop 6602) 50 Hz	1.6 m <sup>3</sup> h <sup>-1</sup> / 0.8 ft <sup>3</sup> min <sup>-1</sup>
Speed (Pneurop 6602) 60 Hz	2.0 m <sup>3</sup> h <sup>-1</sup> / 1.2 ft <sup>3</sup> min <sup>-1</sup>
Ultimate vacuum (total pressure) without gas ballast	3 x 10 <sup>-3</sup> mbar / 2.3 x 10 <sup>-3</sup> Torr
with gas ballast	2.5 x 10 <sup>-2</sup> mbar / 1.9 x 10 <sup>-2</sup> Torr
Inlet connection	NW10 flange
Outlet connection	Nozzle 11 mm external diameter removable from hole tapped 3/8 inch BSP
Maximum inlet pressure for water vapor	15 mbar / 11 Torr
Maximum permitted pressure at outlet	0.5 bar gauge / 7 psig
Maximum water vapor pumping rate	16 g h <sup>-1</sup>
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 liter
minimum	0.2 liter
Recommended oil (supplied)	Ultragrade 15

## Ordering information

### Product description

#### E2M1.5 pump

200-230 V, 1-ph, 50/60 Hz, IEC 60320 connectors

100-120 V, 1-ph, 50/60 Hz, IEC 60320 connectors

#### E2M1.5 Interstage

200-230 V, 1-ph, 50/60 Hz, IEC 60320 connectors

100-120 V, 1-ph 50/60 Hz, IEC 60320 connectors

Supplied with: Ultragrade 15 oil, NW O-ring and centering ring, 2 Allen keys, spares seals for oil drain and filler plugs.

### Accessories

EMF3 outlet mist filter

3/8 inch BSP to NW10 adaptor

2 m electrical supply cable with IEC socket

UK, three-pin plug

North European plug

North America/Japan plug

No plug

### Spares

The clean and overhaul kit contains all of the springs, gaskets, seals and other components required for routine maintenance and whenever the pump is dismantled. Add a blade kit for a full service. Both kits contain instructions and part identification.

Clean and overhaul kit

Blade kit

NW10 centering ring and O-ring

NW10 O-ring (pack of five)

### Order No.

A37132919

A37132902

A37104919

A37104902

### Order No.

A46220000

A25908064

A50505000

A50506000

A50507000

A50508000

### Order No.

A37101131

A37101132

C10511396

H02124032

For electrical data, including recommended fuse ratings, see page 1-25. For other accessories, see page 1-25 to 1-28. For rotary pump oils, see page 6-35.