



PRODUCT CATALOGUE 2012



RV12 Two Stage Rotary Vane Pump

Edwards RV pumps have become the industry standard for scientific primary pumping applications. RV pumps are uniquely capable of delivering high or low throughputs with high ultimate vacuum. This, combined with ultra-low noise levels, makes them ideal for a wide range of applications including GCMS and other small bench top type applications.

All pumps are approved to UL and CSA standards by an external test house. Edwards has a global network, providing world-wide support for product applications and service.

Supplied with: 1 litre of Ultragrade 19 oil, inlet filter and O-ring. Fomblin® must be purchased separately for PFPE RV pumps.



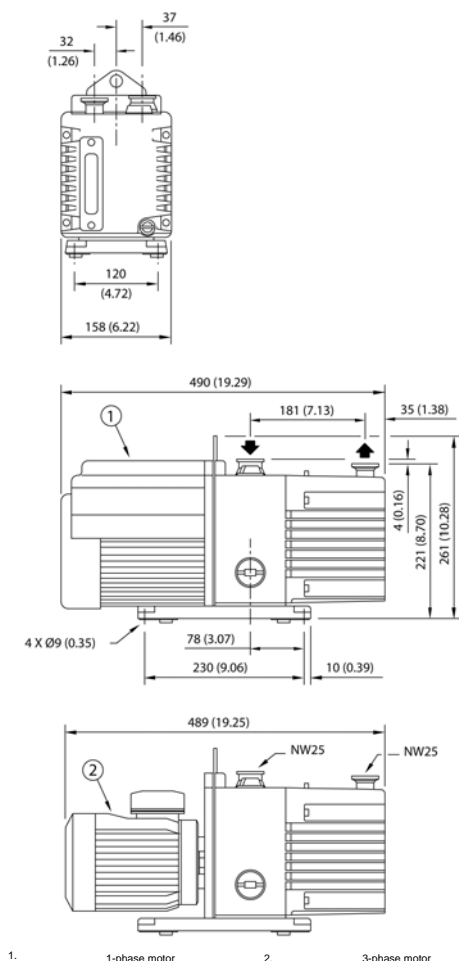
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Page
31

Features & Benefits

- 48 dBA and intrusive frequencies minimised.
- Dual mode. Suitable for high throughput and high vacuum applications.
- Easy-to-use gas ballast.
- Fast acting inlet valve for system protection.
- High torque, dual voltage/dual frequency motor, electronic start relay.

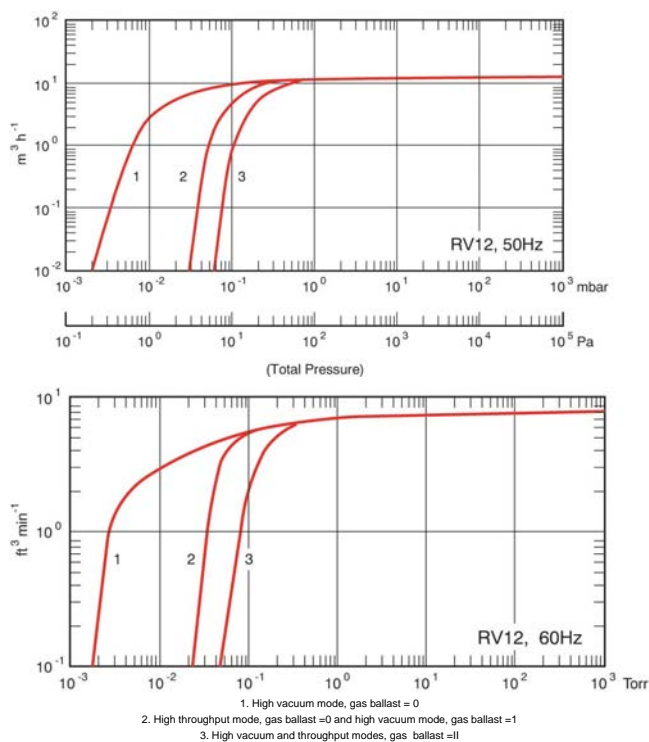
Dimensions



Applications

- Analytical instruments
- Centrifuges, ultra-high speed
- Coating
- Degassing/curing - oil, epoxy resin
- Distillation/extraction/filtration

Performance Curves



Technical Data

Displacement	
50Hz	$14.2 \text{ m}^3 \text{ h}^{-1} / 8.4 \text{ ft}^3 \text{ min}^{-1}$
60Hz	$17 \text{ m}^3 \text{ h}^{-1} / 10 \text{ ft}^3 \text{ min}^{-1}$
Speed (Pneuop 6602)	
50Hz	$12 \text{ m}^3 \text{ h}^{-1} / 7.1 \text{ ft}^3 \text{ min}^{-1}$
60Hz	$14.2 \text{ m}^3 \text{ h}^{-1} / 8.4 \text{ ft}^3 \text{ min}^{-1}$
Ultimate pressure	$2 \times 10^{-3} \text{ mbar} / 1.5 \times 10^{-3} \text{ Torr}$
Ultimate pressure GB I	$3 \times 10^{-2} \text{ mbar} / 2.3 \times 10^{-2} \text{ Torr}$
Ultimate pressure GB II	$6 \times 10^{-2} \text{ mbar} / 4.6 \times 10^{-2} \text{ Torr}$
Ultimate pressure with Fomblin®	$2 \times 10^{-2} \text{ mbar} / 1.5 \times 10^{-2} \text{ Torr}$
Max inlet pressure for water vapour	32 mbar / 24 Torr
Max water vapour pumping rate – GB I	60 gh^{-1}
Max water vapour pumping rate – GB II	220 gh^{-1}
Max allowed outlet pressure	1 bar gauge / 14 psig
Max allowed inlet and gas ballast pressure	0.5 bar gauge / 7 psig
Motor power 50/60Hz	450 / 550W
Power connector 1-ph	IEC EN60320 C13
Nominal rotation speed 50/60Hz	1500 / 1800rpm
Weight (without oil)	29 kg / 63.8 lb
Oil capacity min/max	0.65 / 1 litres
Recommended oil	Ultragrade 19
Inlet flange	NW25
Exhaust flange	NW25
Noise level	48 dBA @ 50 Hz
Operating temperature range	12 – 40 °C

Ordering Information

Product Description	Order No.
RV12 115/230V, 1-ph, 50/60Hz, Factory set to 230V for Europe	A65501903
RV12 100/200V, 1-ph, 50/60Hz, Factory set to 200V for Japan	A65501904
RV12 200-220/380-415V, 3-ph, 50Hz and 200-230/460V, 3-ph, 60Hz, Factory set to 380/460V	A65501905
RV12 115/230V, 1-ph, 50/60Hz, Factory set to 115V for USA	A65501906
PFPE RV12 115/230V, 1-ph, 50/60Hz, Factory set to 230V for Europe	A65509903
PFPE RV12 100/200V, 1-ph, 50/60Hz, Factory set to 200V for Japan	A65509904
PFPE RV12 200-220/380-415V, 3-ph, 50Hz and 200-230/460V, 3-ph, 60Hz, Factory set to 380/460V	A65509905
PFPE RV12 Two Stage Rotary Vane Pump 115/230V 1ph 50/60Hz, Factory set to 115V for USA	A65509906
Accessories & Spares	Order No.
2m electrical supply cable for 1-ph pumps, UK, Three-pin plug	A50505000
2m electrical supply cable for 1-ph pumps, North European plug	A50506000
2m electrical supply cable for 1-ph pumps, North America/Japan plug	A50507000
2m electrical supply cable for 1-ph pumps, no plug	A50508000
RV gas-ballast adaptor	A50502000
RV exhaust nozzle kit	A50509000
Model EMF20 mist filter	A46229000
Clean and overhaul kit (Nitrile)	A65201137
Spares Kit Blade RV12	A65501130
Outer Shaft Seal Kit RV	A65201134
Spares Kit Inlet Valve RV3/5/8/12	A65201036
Spares Kit Cartridge RV12	A65501032