



# PRODUCT CATALOGUE 2012



# RV5 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.



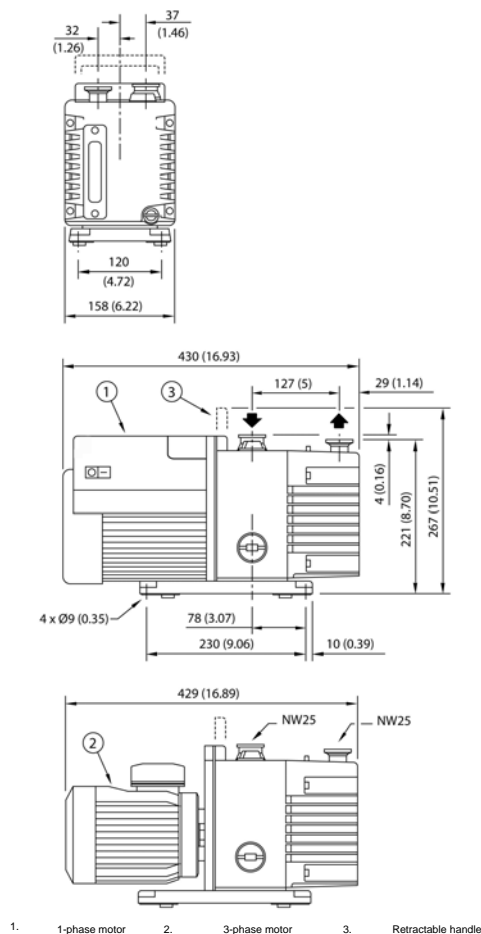
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## Features & Benefits

- 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.

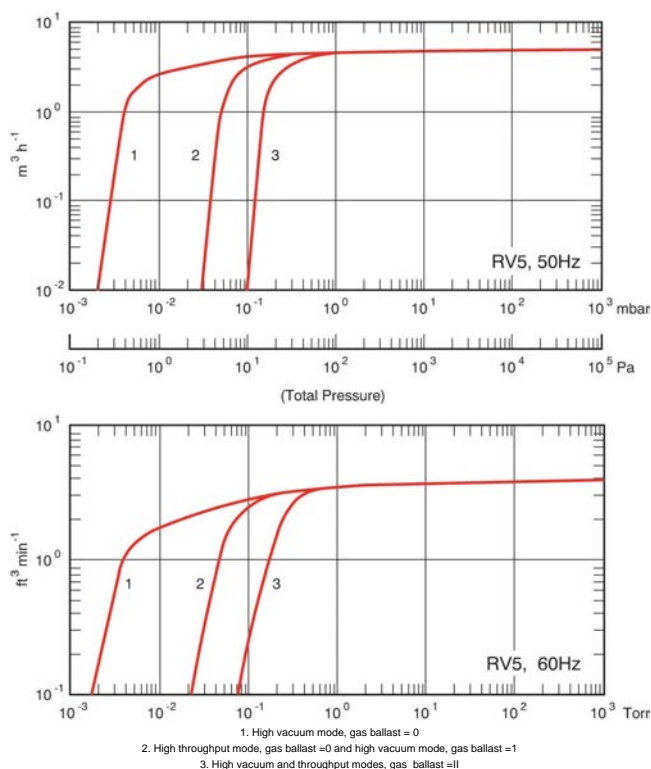
## Dimensions



## Applications

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

## Performance Curves



## Technical Data

|  |  |
|--|--|
| Displacement                               |  |
| 50Hz                                       | $5.8 \text{ m}^3 \text{ h}^{-1} / 3.4 \text{ ft}^3 \text{ min}^{-1}$ |
| 60Hz                                       | $7.0 \text{ m}^3 \text{ h}^{-1} / 4.1 \text{ ft}^3 \text{ min}^{-1}$ |
| Speed (Pneurop 6602)                       |  |
| 50Hz                                       | $5.1 \text{ m}^3 \text{ h}^{-1} / 3.0 \text{ ft}^3 \text{ min}^{-1}$ |
| 60Hz                                       | $6.2 \text{ m}^3 \text{ h}^{-1} / 3.7 \text{ ft}^3 \text{ min}^{-1}$ |
| Ultimate pressure                          | $2.0 \times 10^{-3} \text{ mbar} / 1.5 \times 10^{-3} \text{ Torr}$  |
| Ultimate pressure GB I                     | $3.0 \times 10^{-2} \text{ mbar} / 2.3 \times 10^{-2} \text{ Torr}$  |
| Ultimate pressure GB II                    | $1.0 \times 10^{-1} \text{ mbar} / 7.5 \times 10^{-2} \text{ Torr}$  |
| Ultimate Pressure with Fomblin®            | $2.0 \times 10^{-2} \text{ mbar} / 1.5 \times 10^{-2} \text{ Torr}$  |
| Max inlet pressure for water vapour        | 50 mbar / 38 Torr  |
| Max water vapour pumping rate – GB I       | $60 \text{ gh}^{-1}$   |
| Max water vapour pumping rate – GB II      | $220 \text{ gh}^{-1}$  |
| 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)                       | 25 kg / 55 lb  |
| Oil capacity min/max                       | 0.42/0.7 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. |
|---|-----------|
| RV5 115/230V, 1-ph, 50/60Hz, Factory set to 230V for Europe                                 | A65301903 |
| RV5 100/200V, 1-ph, 50/60Hz, Factory set to 200V for Japan                                  | A65301904 |
| RV5 200-220/380-415V, 3-ph, 50Hz and 200-230/460V, 3-ph, 60Hz, Factory set to 380/460V      | A65301905 |
| RV5 115/230V, 1-ph, 50/60Hz, Factory set to 115V for USA                                    | A65301906 |
| PFPE RV5 115/230V, 1-ph, 50/60Hz, Factory set to 230V for Europe                            | A65309903 |
| PFPE RV5 100/200V, 1-ph, 50/60Hz, Factory set to 200V for Japan                             | A65309904 |
| PFPE RV5 200-220/380-415V, 3-ph, 50Hz and 200-230/460V, 3-ph, 60Hz, Factory set to 380/460V | A65309905 |
| PFPE RV5 115/230V, 1-ph, 50/60Hz, Factory set to 115V for USA                               | A65309906 |
| 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 EMF10 mist filter   | A46226000 |
| Clean and overhaul kit  | A65201131 |
| Clean and overhaul kit (Nitrile)  | A65201137 |
| Spares Kit Blade RV5  | A65301130 |
| Outer Shaft Seal Kit RV   | A65201134 |
| Spares Kit Inlet Valve RV3/5/8/12   | A65201036 |
| Spares Kit Cartridge RV5  | A65301032 |