

nRVi OIL SEALED ROTARY VANE PUMP

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Introducing the new nRVi series of oil sealed rotary vane pumps, designed to deliver an enhanced and consistent performance worldwide, with the latest in communication technology. Edwards' field proven drive has been combined with the industry leading RV range, bringing oil sealed vacuum pump technology into the 21st century.

Adding the new drive, based on Edwards technology, allows better installation and remote start/stop for improved control functionality. With autosensing wide range voltage operation users are assured that, regardless of the power supply (50 Hz or 60 Hz), the higher pumping speed would be achieved, for example turning an Edwards RV12 with a pumping speed of $12\text{m}^3\text{h}^{-1}$ into an nRV14i with speed of greater than $14\text{m}^3\text{h}^{-1}$ and deliver an uprated and consistent performance worldwide.



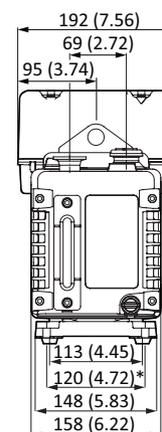
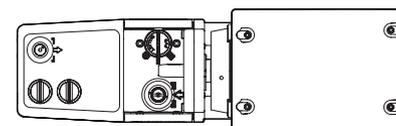
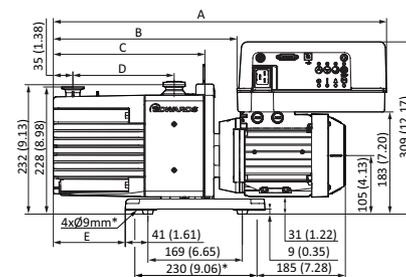
Features and benefits

- Four pump choices from 3.9 to $14.2\text{m}^3\text{h}^{-1}$
- Tried and trusted RV reliability and performance with field proven drive design
- Universal voltage operation using Edwards Intellectual Property for safe and reliable dual voltage operation: $100 - 127\text{V AC RMS } 50/60\text{ Hz}$ and $200 - 240\text{V AC RMS } 50/60\text{ Hz}$
- An enhanced EMC variant for high-voltage operation ($200 - 240\text{V}$), meeting the European harmonic emission requirements of EN61000-3-2
- Use of STANDBY mode allows for speed control for application tuning and/or power saving
- Manual control, simple remote control and serial communications control
- Auxiliary valve control
- Optional AUTO-START functionality to replicate traditional Direct-On-Line (DOL) applications

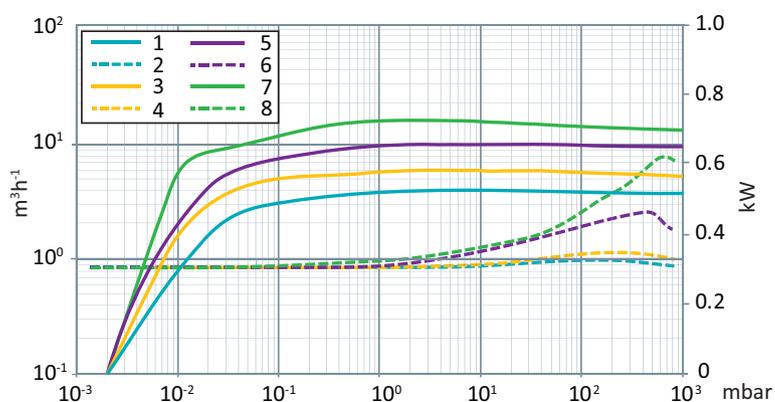
TECHNICAL DATA

| | Units | nRV4i | nRV6i | nRV10i | nRV14i |
|--|---|--|---------|--|--|
| Pumping Speed | m ³ h ⁻¹ /ft ³ h ⁻¹ | 3.9/2.3 | 6.2/3.7 | 10/5.9 | 14.2/8.4 |
| Ultimate Pressure No Gas Ballast | mbar/Torr | 2 x 10 ⁻³ /1.5 x 10 ⁻³ | | | |
| Ultimate with Gas Ballast 1 | mbar/Torr | 3 x 10 ⁻² /2.3 x 10 ⁻² | | | |
| Ultimate with Gas Ballast 2 | mbar/Torr | 1.2 x 10 ⁻¹ / 9.1 x 10 ⁻² | | 6.0 x 10 ⁻² / 4.6 x 10 ⁻² | 1.2 x 10 ⁻¹ / 9.1 x 10 ⁻² |
| Water Vapour Tolerance (Gas Ballast 2) | ghr ⁻¹ | 220 | | | 290 |
| Inlet Port | | NW25 | | | |
| Outlet Port | | NW25 | | | |
| Power Supply | | 100 -240 V AC +/- 10% 50/60 Hz | | | |
| Power Connection | | IEC 60320 C19 | | | |
| On/Off Control | | Manual and Remote Parallel | | | |
| Serial Communications | | RS232 and RS485 | | | |
| Noise (Pressure) | dB(A) | <55 | | | |
| Ambient Temperature Range | °C | 12 to 40 | | | |
| Cooling | | Air Cooled | | | |
| Weight without oil | kg/lb | 27.8/61.1 | | 30.3/66.7 | 31.5/69.3 |
| Oil Type | | Ultragrade 19 | | | |
| Oil Capacity min-max | litre | 0.42-0.7 | | 0.45-0.75 | 0.65-1.0 |

DIMENSIONS – MM (INCHES)



PERFORMANCE GRAPH



1. nRV4i
2. nRV4i supply power (kW)
3. nRV6i
4. nRV6i supply power (kW)
5. nRV10i
6. nRV10i supply power (kW)
7. nRV14i
8. nRV14i supply power (kW)

Note - all stated voltage ranges are +/- 10%

| Pump | Dimensions | | | | |
|--------|------------|-----|-----|-----|-----|
| | A | B | C | D | E |
| nRV4i | 537 | 269 | 211 | 121 | 69 |
| nRV6i | 537 | 269 | 211 | 121 | 69 |
| nRV10i | 577 | 309 | 251 | 161 | 109 |
| nRV14i | 597 | 329 | 271 | 181 | 129 |

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