



Edwards RV-3, RV-5, RV-8, RV-12

Technical Specifications

	Hz	Units	RV3	RV5	RV8	RV12
Peak pumping speed	60	cfm	2.3	3.6	5.9	8.4
	50	m ³ /h	3.3	5.1	8.5	12
Ultimate pressure (Total)	60	Torr	1.5 x 10 ⁻³ (1.5 x 10 ⁻² with Fomblin®)			
	50	mbar	2.0 x 10 ⁻³ (2.0 x 10 ⁻² with Fomblin®)			
Ultimate pressure GB I (Total)	50/60	Torr	2.3 x 10 ⁻²			
		mbar	3.0 x 10 ⁻²			
Ultimate pressure GB II (Total)	50/60	Torr	9.1 x 10 ⁻²	9.1 x 10 ⁻²	4.6 x 10 ⁻²	9.1 x 10 ⁻²
		mbar	1.2 x 10 ⁻¹	1.2 x 10 ⁻¹	6.0 x 10 ⁻²	1.2 x 10 ⁻¹
High throughput mode	50/60	Torr	2.3 x 10 ⁻²			
		mbar	3.0 x 10 ⁻²			
Water vapour tolerance		Torr	60	38	38	24
		mbar	80	50	60	32
Water vapour capacity - GB I		g/h	60	60	60	60
Water vapour capacity - GB II		g/h	220	220	220	290
Motor data						
Motor rating 1 phase (nominal)	60	W	550			
	50	W	450			
Motor rating 3 phase	60	W	300	300	550	550
	50	W	250	250	450	450
Nominal rotation speed	60	rpm	1800			
	50	rpm	1500			
Physical data						
Weight		lb	55	55	61.6	63.8
		kg	25	25	28	29
Oil capacity		litres	0.7	0.7	0.75	1
Oil type (Ultragrade)			19			
Inlet flange			NW25			
Exhaust flange			NW25			
Noise level	50 Hz	dB(A)	48			
Noise level (with Acoustic Enclosure)*	50 Hz	dB(A)	41			
Operating temperature range		°C	12 to 40			

* approximate noise reduction of 7 dB(A)



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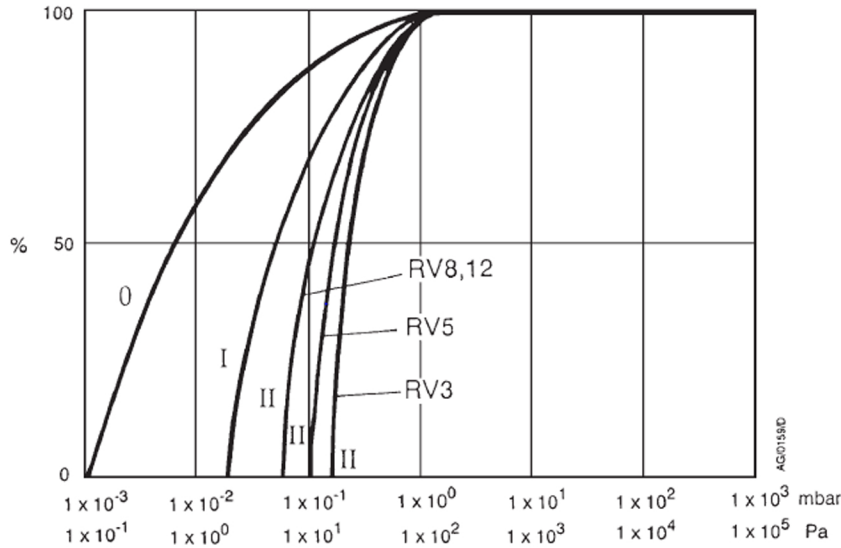
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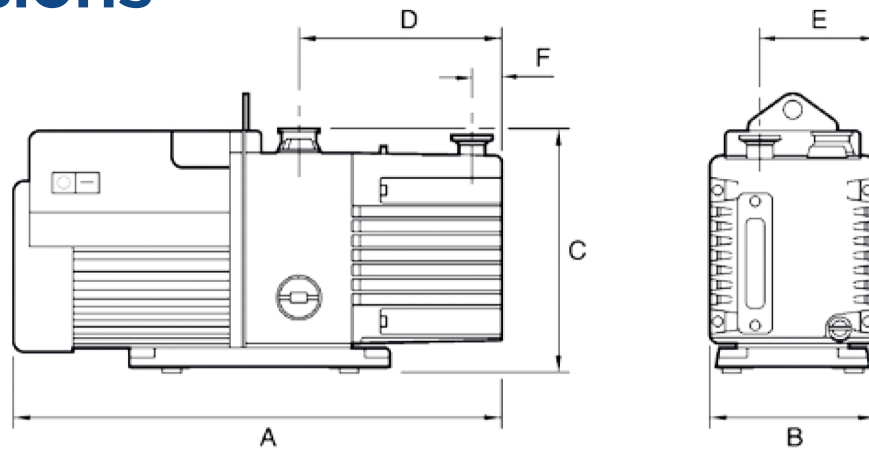
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Pumping Speeds



Dimensions



	A	B	C	D	E	F
RV3	430 (16.93)	158 (6.22)	225 (8.86)	156 (6.41)	111 (4.37)	29 (1.14)
RV5	430 (16.93)	158 (6.22)	225 (8.86)	156 (6.41)	111 (4.37)	29 (1.14)
RV8	470 (18.50)	158 (6.22)	225 (8.86)	196 (7.72)	111 (4.37)	35 (1.38)
RV12	490 (19.29)	158 (6.22)	225 (8.86)	216 (8.50)	111 (4.37)	35 (1.38)

Note: Single phase pump diagram shown, 3 phase pumps look different but share the same dimensions.
 Dimensions shown in mm(inch).



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Features & Benefits

- easy assembly/maintenance
- fast acting anti-suckback inlet
- two position gas ballast
- greater reliability
- unique mode selector
- universal motor
- quiet operation
- high vapour handling
- superior particulate handling



Applications

Mass spectrometry

- GCMS, LCMS, ICPMS, MALDI, RGA, surface science, leak detectors

Electron microscopy

- TEM, SEM, sample coaters

Sample preparation

- Gel dryers, glove boxes, rotary evaporators, centrifuges

Research and development

- Chamber evacuation, coating systems, turbomolecular pump backing

High energy physics

- Beam lines, accelerators, mobile pump carts, turbomolecular pump backing, laser evacuation

Industrial

- Glove boxes, coating systems, freeze drying, gas bottle filling/emptying, refrigeration system manufacture, degassing/curing (oil, epoxy resin)

Chemical

- Gel dryers, glove boxes, rotary evaporators, centrifuges, distillation/extraction/filtration