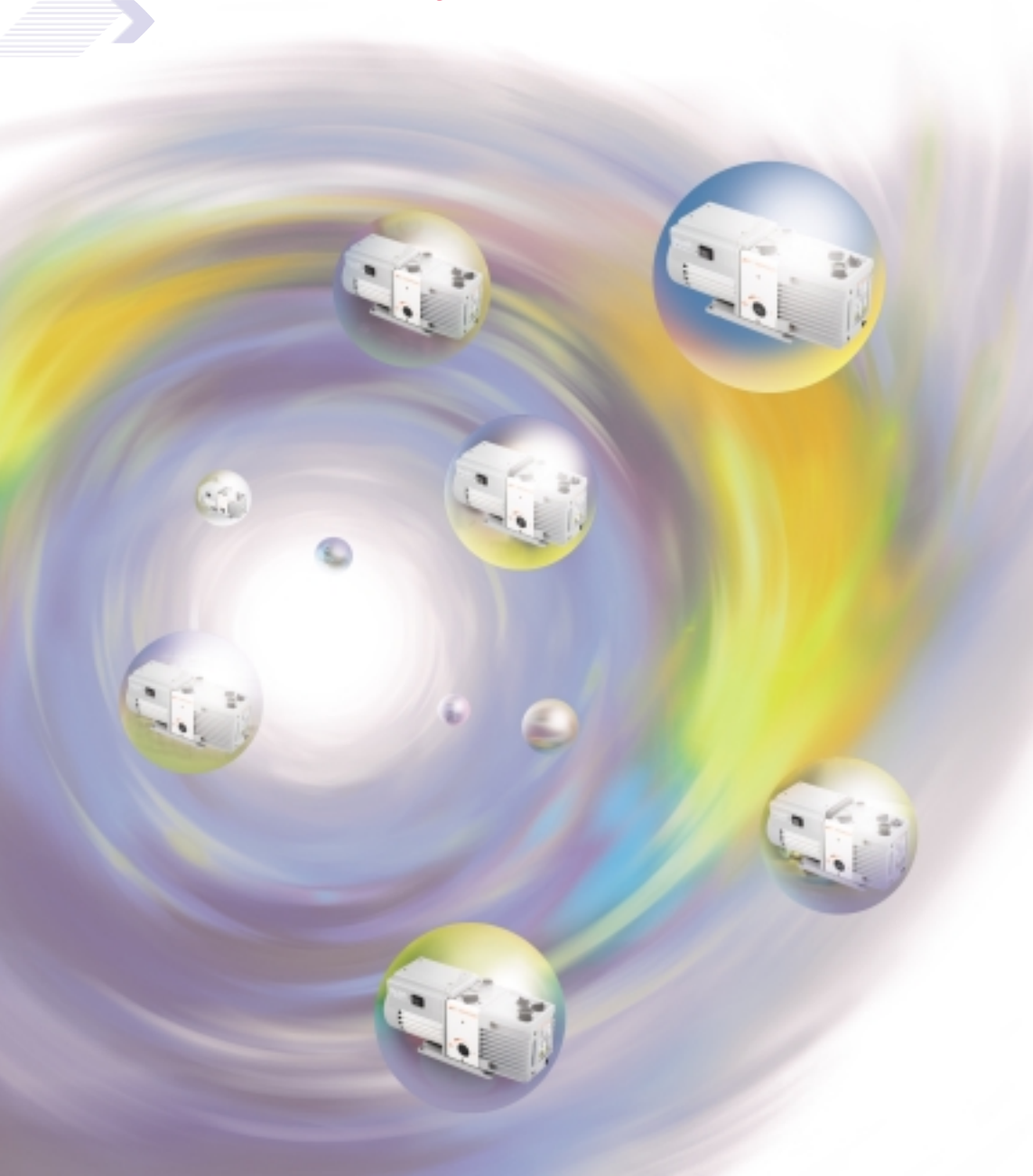




RV Rotary Vane Pumps





Proven performance th

BOC Edwards' 30 years of experience in scientific applications affords us a deep understanding of research practices and the critical role that vacuum plays within them. From this platform, and through collaboration with the major analytical instrument manufacturers, we develop and support innovative vacuum products that underpin the customer's entire research process.

After 10 years, BOC Edwards RV pumps have become the industry standard vacuum pump for scientific primary pumping applications. RV pumps are unique in their capability to deliver high or low throughputs with ultimate high vacuum, which combined with ultra-low noise levels, makes them ideal for a wide range of applications and environments.

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

Typical Applications

	RV 3/5	RV 8/12
Analytical instruments - GCMS	●	
Analytical instruments - LCMS		●
Centrifuges, ultra-high speed	●	●
Coating	●	●
Degassing/curing - oil, epoxy resin	●	●
Distillation/extraction/filtration	●	●
Freeze drying	●	●
Furnaces	●	●
Gas bottle filling/emptying	●	●
Gel drying	●	●
Glove boxes, ovens	●	●
Laboratory bench top vacuum	●	●
Leak detectors, Helium	●	●
Load locks and transfer chambers	●	●
Refrigeration manufacture	●	●
Research and development	●	●
Rotary, centrifugal evaporators	●	●
Scanning electron microscopes - SEM	●	●
SEM/FIB (ion beam repair)	●	●
Solvent recovery	●	●
Surface science instruments	●	●
Turbomolecular backing pumps	●	●

Adjustable gas ballast

Excellent water vapor handling capacity

Patented inlet valve

Smooth opening, fast closing

Integral air bleed

Quiet operation

Wide voltage motors

All major countries covered with less stock holding

Integral IEC 60320 connector

No customer wiring

All pumps externally approved to EN61010, CSA C22.2 1010, UL 61010 standards

Safe product



that sets the industry standard

Motor on/off switch

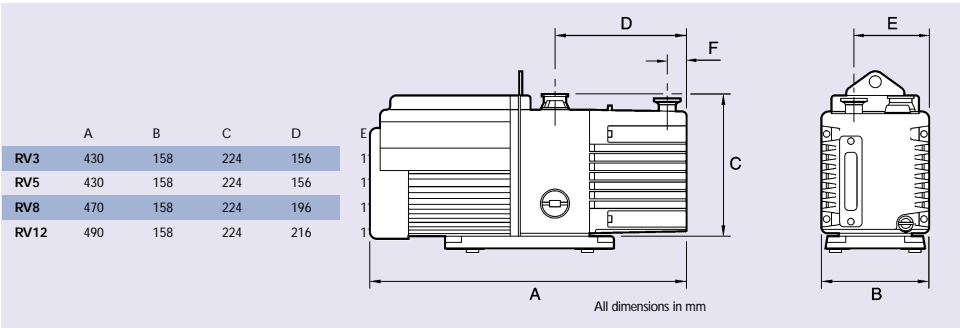
Easy controls

Patented mode switch

High vacuum or high throughput in one pump



Dimensions



Specifications

	Hz	Units	RV 3	RV 5	RV 8	RV 12
VACUUM DATA						
Peak pumping speed	60	cfm	2.3	3.6	5.9	8.4
	50	m³/h	3.3	5.1	8.5	12
Ultimate pressure (Total)	60	Torr	1.5 x 10 ⁻³	1.5 x 10 ⁻³	1.5 x 10 ⁻³	1.5 x 10 ⁻³
	50	mbar	2.0 x 10 ⁻³	2.0 x 10 ⁻³	2.0 x 10 ⁻³	2.0 x 10 ⁻³
Ultimate pressure GB I (Total)	50/60	Torr	2.3 x 10 ⁻²	2.3 x 10 ⁻²	2.3 x 10 ⁻²	2.3 x 10 ⁻²
		mbar	3.0 x 10 ⁻²	3.0 x 10 ⁻²	3.0 x 10 ⁻²	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	2.3 x 10 ⁻²	2.3 x 10 ⁻²	2.3 x 10 ⁻²
		mbar	3.0 x 10 ⁻²	3.0 x 10 ⁻²	3.0 x 10 ⁻²	3.0 x 10 ⁻²
Water vapor tolerance		Torr	60	38	38	24
		mbar	80	50	60	32
Water vapor capacity - GB I		g/h	60	60	60	60
Water vapor capacity - GB II		g/h	220	220	220	290
MOTOR DATA						
Motor rating 1 phase (nominal)	60	W	300	300	550	550
	50	W	250	250	450	450
Motor rating 3 phase		W				
Nominal rotation speed	60	rpm	1800	1800	1800	1800
	50	rpm	1500	1500	1500	1500
PHYSICAL DATA						
Weight		lb	47.5	47.5	57	58
		kg	21.5	21.5	26	26.3
Length		inch	16.9	16.9	18.5	19.3
		mm	430	430	470	490
Width		inch	6.2	6.2	6.2	6.2
		mm	158	158	158	158
Height		inch	8.9	8.9	8.9	8.9
		mm	225	225	225	225
Oil capacity		liters	0.7	0.7	0.75	1
Oil type (Ultragrade)			19	19	19	19
Inlet flange			NW25	NW25	NW25	NW25
Exhaust flange			NW25	NW25	NW25	NW25
Noise level	50	dBA	48	48	48	48
Operating temperature range		°C	12 to 40	12 to 40	12 to 40	12 to 40

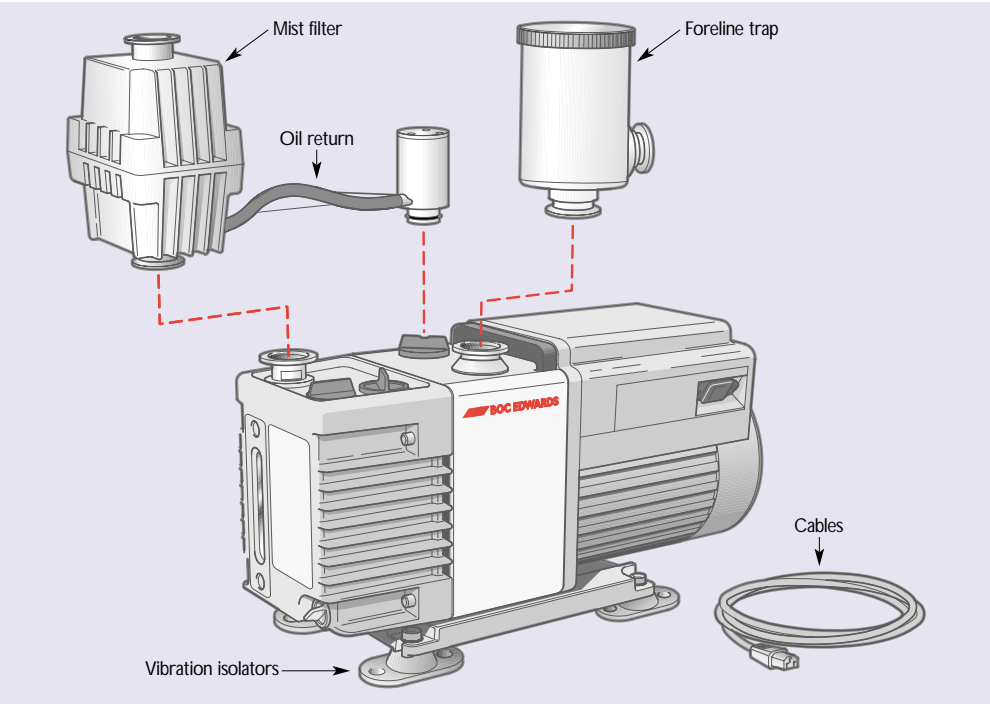
Ordering details


Description	Ordering Number	
	Ultragrade Oil	PFPE Oil
RV3	115/230V, 50/60Hz set to 230V	A65201903
	100/200V, 50/60Hz	A65201904
	200-220V/380-415V, 50Hz	A65201905
	200-230/460V, 60Hz, 3 phase	A65201906
RV5	115/230V, 50/60Hz set to 230V	A65301903
	100/200V, 50/60Hz	A65301904
	200-220V/380-415V, 50Hz	A65301905
	200-230/460V, 60Hz, 3 phase	A65301906
RV8	115/230V, 50/60Hz set to 230V	A65401903
	100/200V, 50/60Hz	A65401904
	200-220V/380-415V, 50Hz	A65401905
	200-230/460V, 60Hz, 3 phase	A65401906
RV12	115/230V, 50/60Hz set to 230V	A65501903
	100/200V, 50/60Hz	A65501904
	200-220V/380-415V, 50Hz	A65501905
	200-230/460V, 60Hz, 3 phase	A65501906

Description	Ordering Number	
	UK, three pin plug	A50505000
Cord Sets	North European plug	A50506000
	North American plug	A50507000
Oil	Ultragrade 19, 1 liter bottle	H11025015
	Fomblin YVAC 06/6 1kg (532ml)	H11301019
Inlet accessories	Foreline trap - FL20K	A13305000
Outlet accessories	Oil mist filter - EMF10	A46226000
	Oil mist filter - EMF20	A46229000
Oil returns	Clean application (no gas ballast)	A50420000
	Adjustable gas ballast	A50523000
Spare kits	Clean and overhaul kit	A65201131

Note: All pumps supplied with initial charge of oil

Accessories





BOC Edwards is a world leader in process equipment, materials and services for electronics, industrial and scientific applications. Our aim is to offer customers solutions that result in a measurable improvement in productivity.

BOC EDWARDS PRODUCTS AND SERVICES

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CHEMICAL MANAGEMENT

VACUUM PUMPS & SYSTEMS

EXHAUST MANAGEMENT

WASTE MANAGEMENT

COATING SYSTEMS

PRESSURE BLOWERS

PHARMACEUTICAL SYSTEMS

THERMAL MANAGEMENT

INSTRUMENTATION

DESIGN & PROJECT MANAGEMENT

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