

RV12 ROTARY VANE PUMP

14.2 m³h⁻¹, 8.4 ft³min⁻¹, 237 l min⁻¹

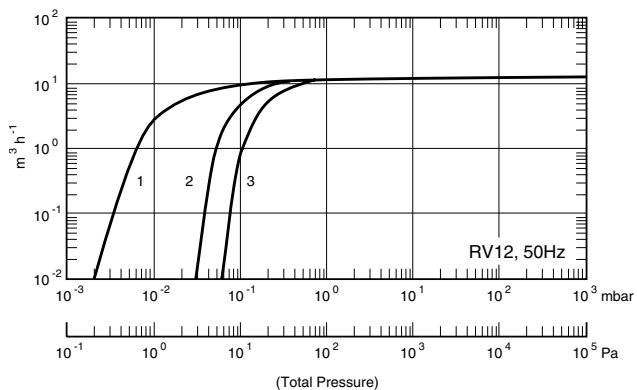


TECHNICAL DATA

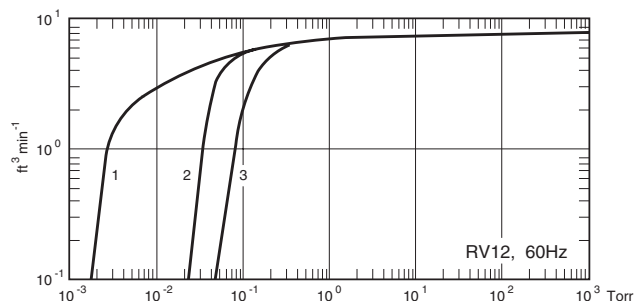
Displacement	
50 Hz operation	14.2 m ³ h ⁻¹ / 8.4 ft ³ min ⁻¹
60 Hz operation	17.0 m ³ h ⁻¹ / 10 ft ³ min ⁻¹
Speed (Pneurop 6602)	
50 Hz operation	12.0 m ³ h ⁻¹ / 7.1 ft ³ min ⁻¹
60 Hz operation	14.2 m ³ h ⁻¹ / 8.4 ft ³ min ⁻¹

GAS BALLAST	ULTIMATE VACUUM (TOTAL PRESSURE)	
	HIGH VACUUM MODE	HIGH THROUGHPUT MODE
Closed	2 x 10 ⁻³ mbar / 1.5 x 10 ⁻³ Torr	3 x 10 ⁻² mbar / 2.3 x 10 ⁻² Torr
Low flow, I	3 x 10 ⁻² mbar / 2.3 x 10 ⁻² Torr	4 x 10 ⁻² mbar / 3 x 10 ⁻² Torr
High flow, II		6 x 10 ⁻² mbar / 4.6 x 10 ⁻² Torr

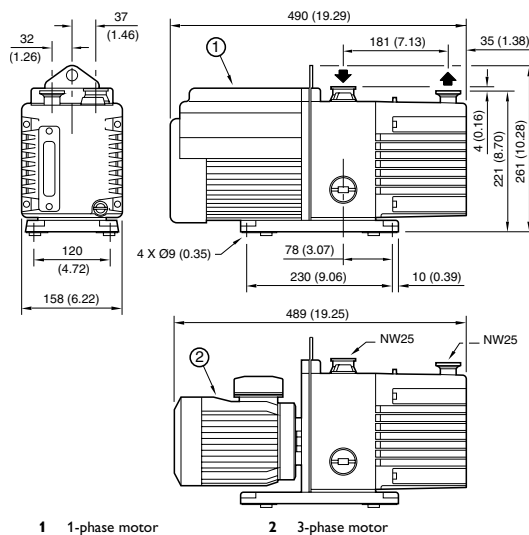
Inlet connection	NW25
Outlet connection	NW25
Maximum allowed outlet pressure	1 bar gauge / 14 psig
Maximum allowed inlet and gas ballast pressure	0.5 bar gauge / 7 psig
Maximum water vapor inlet pressure	32 mbar / 24 Torr
Maximum water vapor pumping rate	
Gas ballast low flow	60 g h ⁻¹
Gas ballast high flow	290 g h ⁻¹
Motor power	
50Hz	450 W
60Hz	550 W
Electrical supply	
1-phase	110-120 V or 220-240 V, 50 or 60 Hz
3-phase	200-230 V or 380-460 V, 50 or 60 Hz
Operating temperature range	12 – 40 °C
Weight, without oil	26.3 kg / 58 lbs
Noise	48 dB(A) @ 50 Hz
Oil capacity	
Maximum	1.0 liter
Minimum	0.65 liter
Recommended oil (supplied)	Ultragrade 19



- 1 50 Hz high vacuum mode, gas ballast = 0
- 2 50 Hz high throughput mode, gas ballast = 0 and high vacuum mode, gas ballast = I
- 3 50 Hz high vacuum and high throughput modes, gas ballast = II



- 1 60 Hz high vacuum mode, gas ballast = 0
- 2 60 Hz high throughput mode, gas ballast = 0 and high vacuum mode, gas ballast = I
- 3 60 Hz high vacuum and high throughput modes, gas ballast = II



1 1-phase motor

2 3-phase motor

ORDERING INFORMATION

PRODUCT DESCRIPTION	ORDERING NUMBER	
RV12 pump		
115/230 V, 1-ph, 50/60 Hz, Factory set to 230 V for Europe	A65501903	
Factory set to 115 V for USA	A65501906	
100/200 V, 1-ph, 50/60 Hz Factory set to 200 V for Japan	A65501904	
200-220/380-415 V, 3-ph, 50 Hz and 200-230/460 V, 3-ph, 60 Hz Factory set to 380/460 V	A65501905	
Supplied with: 1 liter of Ultragrade 19 oil, inlet filter and "O" ring.		
ACCESSORIES	ORDERING NUMBER	
2 m electrical supply cable with IEC socket for 1-ph pumps		
UK, three-pin plug	A50505000	
North European plug	A50506000	
North America/Japan plug	A50507000	
No plug	A50508000	
RV gas-ballast adaptor	A50502000	
RV exhaust nozzle kit, 3/4 inch BSP to 15 mm hose	A50509000	
EMF20 outlet mist filter	A46229000	
SPARES	ORDERING NUMBER	
The clean and overhaul kit contains all of the springs, gaskets, seals and other components required for routine maintenance and whenever the pump is dismantled. Add a blade kit for a full service.		
Clean and overhaul kit	A65201131	
Blade kit	A65501130	
Outer shaft seal kit	A65201134	
Inlet valve kit	A65201036	
Cartridge kit	A65501032	
PRODUCT DESCRIPTION	ATEX CLASSIFICATION	ORDERING NUMBER
RV12 pump – flameproof motor options		
ATEX RV12 230 V, 1-ph, 50 Hz	⊕ II 2G IIB T4 External	A65518991
ATEX RV12 230 V, 1-ph, 50 Hz	⊕ II 2G IIC T4 External	A65518989
ATEX RV12 230 V, 1-ph, 60 Hz	⊕ II 2G IIB T4 External	A65518988
ATEX RV12 230 V, 1-ph, 60 Hz	⊕ II 2G IIC T4 External	A65518990
ATEX RV12 115 V, 1-ph, 60 Hz	⊕ II 2G IIB T4 External	A65518987
ATEX RV12 115 V, 1-ph, 60 Hz	⊕ II 2G IIC T4 External	A65518986
ATEX RV12 400 V, 3-ph, 50 Hz	⊕ II 2G IIB T4 External	A65518993
ATEX RV12 400 V, 3-ph, 50 Hz	⊕ II 2G IIC T4 External	A65518992
ATEX pumps with flameproof motors require the user to provide: 2 off hazardous area cable glands and cables. Connection of the thermistors to an appropriate safety circuit to switch off the pump if overheating occurs.		
PRODUCT DESCRIPTION	ORDERING NUMBER	
RV12 pump – PFPE prepared*		
115/230 V, 1-ph, 50/60 Hz, Factory set to 230 V for Europe	A65509903	
Factory set to 115 V for USA	A65509906	
100/200 V, 1-ph, 50/60 Hz Factory set to 200 V for Japan	A65509904	
200-220/380-415 V, 3-ph, 50 Hz and 200-230/460 V, 3-ph, 60 Hz Factory set to 380/460 V	A65509905	
* PFPE fluid not included.		

For electrical data, including recommended fuse ratings, see page 1-21. For other accessories, see page 1-21 to 1-26. For rotary pump oils, see page 6-43.

For air motor driven pumps contact BOC Edwards.