

ROTARY VANE PUMP RE 2.5, RZ 2.5 AND PUMPING UNIT PC 3 WITH RZ 2.5

- The one-stage RE 2.5 and two-stage RZ 2.5 are high-performance rotary vane pumps with extra compact design and low weight. They are the ideal solution for a wide range of laboratory and process applications that require low ultimate vacuum at medium gas flow rate. The rotary vane pumping unit PC 3 with cold trap (GKF 1000i) at the inlet helps the pump to handle larger volumes of condensable vapors. The pumping unit is compact, user-friendly, and well-arranged, with oil mist filter at the outlet, a valve, and a T-connection for a gauge. The RZ 2.5 is also available combined with the oil mist filter (FO) and the VS 16 valve as a package.

RZ 2.5
2.3 m³/h
2 x 10⁻³ mbar



PC 3 / RZ 2.5
2.3 m³/h
2 x 10⁻³ mbar

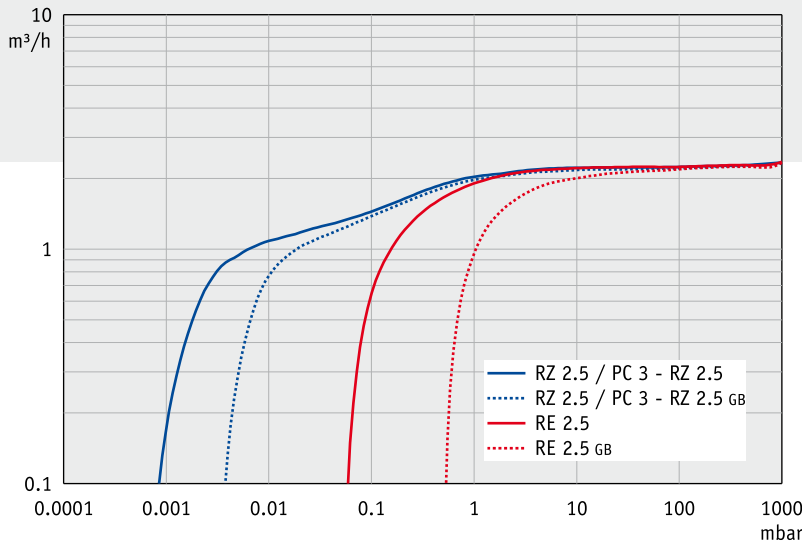


PERFORMANCE FEATURES

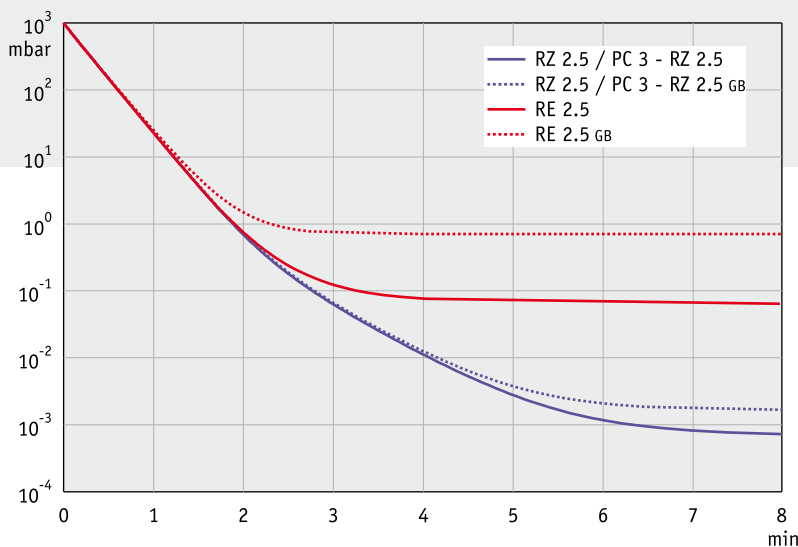
- high flow rates even at vacuum levels approaching ultimate vacuum
- high water vapor tolerance due to efficient gas ballast; very good ultimate vacuum even with gas ballast
- vacuum-tight at switch-off; external anti-suckback valve not needed
- large oil volume: Long intervals between oil changes
- ease of maintenance due to telescopic design

APPLICATIONS

Typical applications are lyophilization, fine vacuum distillation and evacuation of small volumes, e.g., for utilization of μ -focus x-ray tubes or filling with pure gases. The pumping unit PC 3 is the perfect choice for applications requiring special protection of pump and environment. Designed for the use in chemical laboratories, the cold trap helps the pumps handle large volumes of condensable vapors. The cold trap is metalized for extended coolant life and is protected against implosion.



Pumping speed graph at 50 Hz with/without gas ballast



Pump down graph at 50 Hz with/without gas ballast (10 l volume)

Pumping speeds and pump down times are only for information. Ultimate vacuum specification: See "Technical Data"

TECHNICAL DATA			RE 2.5	RZ 2.5	ORDERING INFORMATION		
Number of stages			1	2	230 V ~ 50-60 Hz	CEE	697150
Max. pumping speed at 50/60 Hz	m³/h		2.3/2.8	2.3/2.8	230 V ~ 50-60 Hz	CH	697151
Ultimate partial vacuum (abs.)	mbar		3×10^{-1}	4×10^{-4}	230 V ~ 50-60 Hz	UK	697152
Ultimate vacuum (abs.)	mbar		3×10^{-1}	2×10^{-3}	120 V ~ 60 Hz	US	697153
Ultim. vac. (abs.) with gas ballast	mbar		8×10^{-1}	1×10^{-2}	ORDERING INFORMATION		
Water vapor tolerance	mbar		40	40	RZ 2.5		
Oil capacity (B-Oil) min / max	l		0.18 / 0.51	0.1 / 0.28	230 V ~ 50-60 Hz	CEE	698120
Inlet connection (IN)			Small flange KF DN 16	Small flange KF DN 16	230 V ~ 50-60 Hz	CH	698121
Outlet connection (EX)			Hose nozzle DN 10 mm	Hose nozzle DN 10 mm	230 V ~ 50-60 Hz	UK	698122
Rated motor power	kW		0.18	0.18	120 V ~ 60 Hz	US	698123
Rated speed at 50/60 Hz	min ⁻¹		1500/1800	1500/1800	ORDERING INFORMATION		
Degree of protection			IP 40	IP 40	PC 3 / RZ 2.5		
Dimensions (L x W x H)	mm		316 x 125 x 190	316 x 125 x 190	230 V ~ 50-60 Hz	CEE	699890
Weight	kg		10.2	11.4	ORDERING INFORMATION		
					RZ 2.5 +FO +VS 16		
					230 V ~ 50-60 Hz	CEE	698029

ITEMS SUPPLIED

Pump oil filled and completely mounted, ready for use, with manual

ACCESSORIES

- Rubber vacuum tubing DN 10 mm (686002)
- Stainless steel tubing KF DN 16 (1000 mm: 673336)
- Separator inlet side AK R 2/2.5 (698000)
- Oil mist filter FO R 2/2.5/5/6 (698003)