

ROTARY VANE PUMP RE 16, RZ 16 AND PUMPING UNIT PC 3 WITH RZ 16

- These powerful rotary vane pumps are the largest of the VACUUBRAND family and are designed for pumping large volumes of gases or evacuation of vessels. The PC 3 rotary vane pumping unit, with the GKF 1000i cold trap at the inlet, helps the pump handle large amounts of condensable vapors. The PC 3 pumping unit is compact, user-friendly, and well arranged with oil mist filter at the outlet, a valve, and a T-connection for a vacuum gauge.

RZ 16
16.6 m³/h
2 x 10⁻³ mbar



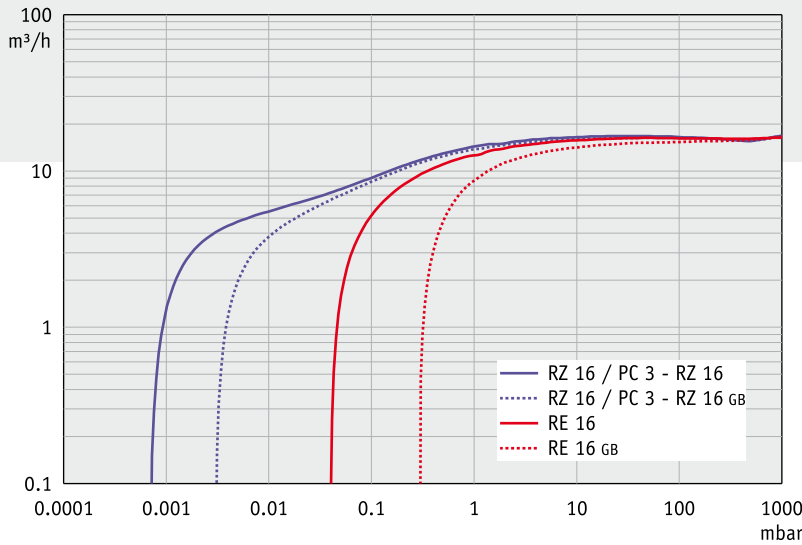
PC 3 / RZ 16
16.6 m³/h
2 x 10⁻³ mbar

PERFORMANCE FEATURES

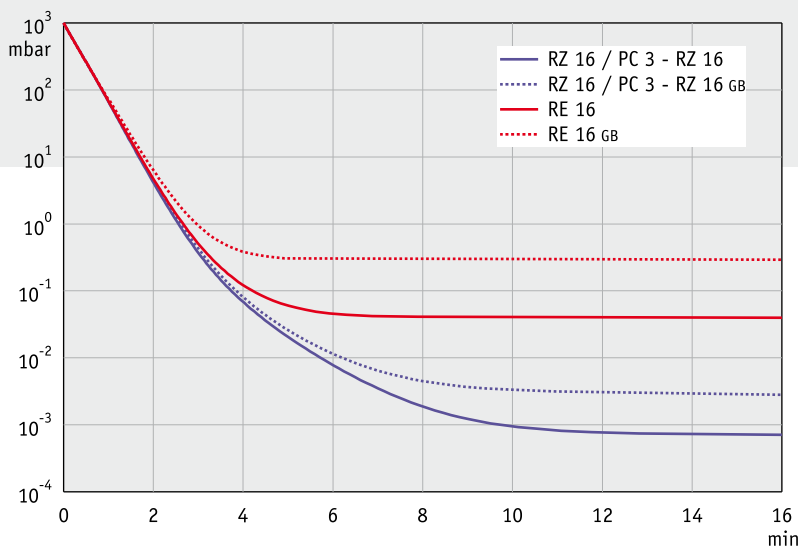
- very high flow rates even at vacuum levels approaching ultimate vacuum
- high water vapor tolerance due to efficient gas ballast; very good ultimate vacuum even with gas ballast
- vacuum-tight at switch-off; external anti-suckback valve not needed
- large oil volume: Long intervals between oil changes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

APPLICATIONS

Typical applications are lyophilization up to pilot plants or small-scale production, fine vacuum distillation, and fast evacuation of larger vessels. The PC 3 pumping unit 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 protected against implosion.



Pumping speed graph at 50 Hz with/without gas ballast



Pump down graph at 50 Hz with/without gas ballast (100 l volume)

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

TECHNICAL DATA	RE 16	RZ 16	ORDERING INFORMATION	RE 16
Number of stages	1	2	230 V ~ 50-60 Hz	CEE 697080
Max. pumping speed 50/60 Hz	m³/h 16.6/19.1	16.6/19.1	230 V ~ 50-60 Hz	CH 697086
Ultimate partial vacuum (abs.)	mbar 1×10^{-1}	4×10^{-4}	230 V ~ 50-60 Hz	UK 697087
Ultimate vacuum (abs.)	mbar 1×10^{-1}	2×10^{-3}	ORDERING INFORMATION	RZ 16
Ultim. vac. (abs.) with gas ballast	mbar 6×10^{-1}	1×10^{-2}	230 V ~ 50-60 Hz	CEE 698050
Water vapor tolerance	mbar 40	40	230 V ~ 50-60 Hz	CH 698056
Oil capacity (B-Oil) min / max	l 0.3 / 1.0	0.5 / 1.0	230 V ~ 50-60 Hz	UK 698057
Inlet connection (IN)	Small flange KF DN 25	Small flange KF DN 25	400 V ~ 50 Hz 3 ph.	CEE 698052
Outlet connection (EX)	Small flange KF DN 25	Small flange KF DN 25	ORDERING INFORMATION	PC 3 / RZ 16
Rated motor power	kW 0.55	0.55	230 V ~ 50-60 Hz	CEE 699897
Rated speed at 50/60 Hz	min ⁻¹ 1500/1800	1500/1800	ACCESSORIES	
Degree of protection	IP 40	IP 40	Stainless steel tubing KF DN 25 (1000 mm: 673337)	
Dimensions (L x W x H)	mm 505 x 152 x 232	545 x 152 x 232	Separator inlet side AK R 8/9/16 (698007)	
Weight	kg 25.2	29	Oil mist filter FO R 8/9/16 (698017)	

ITEMS SUPPLIED

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