VACUUBRAND®

Rotary vane pump RZ 6



Link to the website

Product description

These powerful rotary vane pumps feature a particularly compact design and low weight for pumps of this capacity. They are the ideal solution for a wide range of laboratory and process applications that require low ultimate vacuum at medium to increased gas flow rate. Various packages including pump, oil mist filter, etc. are available. Drehschieberpumpen werden für ein Prozessvakuum von wenigen mbar bis 10^{-3} mbar eingesetzt. Typische Anwendungen sind Entgasen, Gefriertrocknung, Feinvakuumdestillation und Trockenschränke.

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

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Link to the website:
https://shop.vacuubrand.com/20798136

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
RZ 6	220-230 V | 50-60 Hz 100-115 V | 50-60 Hz 120 V | 60 Hz	US	20798136

Items supplied

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

Accessories

- Metal vacuum tubing with small flanges KF DN 16 (20673336)
- Separator inlet side AK for RE/RZ 5/6/2.5 (20698006)
- Oil mist filter outlet side FO R 2/2.5/5/6 (20698003)
- Package fine vacuum control VACUU·SELECT + VACUU·VIEW extended, KF DN 16 (20700100)
- Package fine vacuum control VACUU·SELECT + VSP 3000, KF DN 16 (20700101)
- Vacuum tubing transparent DN 8 mm (20686061)
- Small flange with hose nozzle KF DN 16 / DN 10 mm (20662806)
- Maintenance kit RE 2.5 - RZ 6 (20648977)
- Maintenance kit RE 2.5 - RZ 6 (20648977)

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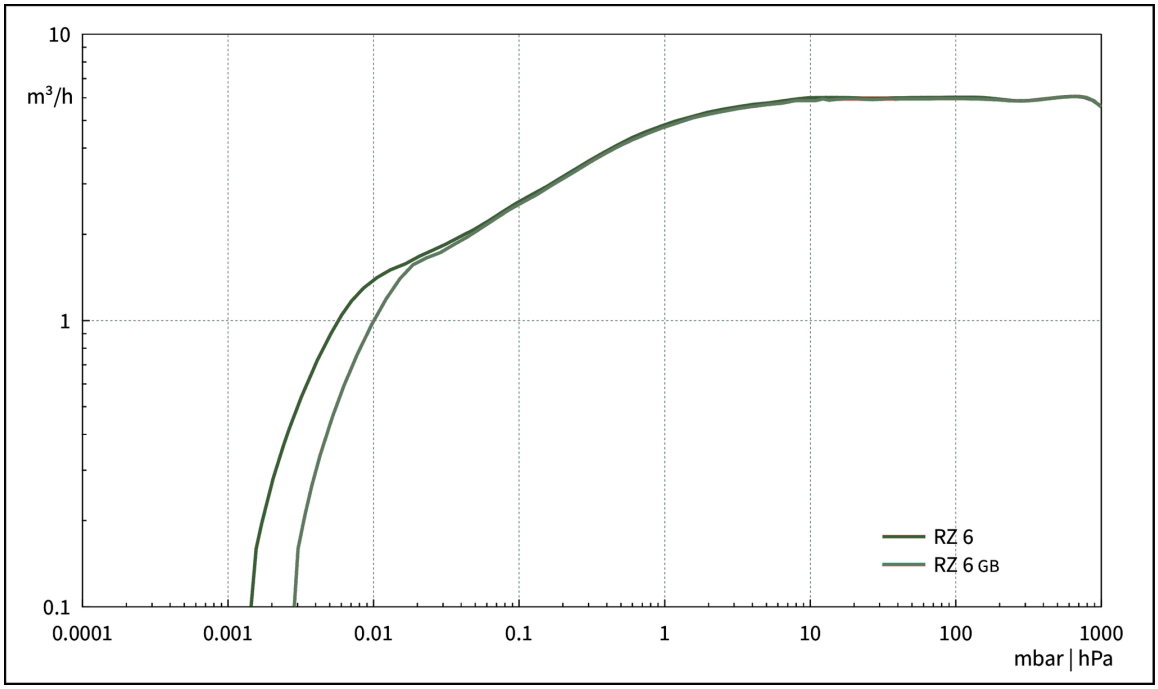
Technical data

Max. pumping speed 50 Hz (m^3/h)	5.7 m^3/h
Max. pumping speed 60 Hz (cfm)	4.0 cfm
Ultimate vacuum	2 x 10^{-3} mbar / 1.5 x 10^{-3} torr
Ultimate vacumm with gas ballast	1 x 10^{-2} mbar / 0.75 x 10^{-2} torr
Ultimate partial vacuum without gas ballast	4 x 10^{-4} mbar / 3 x 10^{-4} torr
Water vapor tolerance	40 mbar / 30 torr
Number of stages	2
Permissible ambient temperature range (operation)	12 - 40 °C
Permissible ambient temperature range (storage)	-10 - 60 °C
Max. outlet pressure (abs.)	1.1 bar
Oil capacity min./max.	0.34 / 0.73 l
Inlet connection	Small flange KF DN 16 / hose nozzle DN 10 mm
Outlet connection	Hose nozzle DN 8-10 mm
Rated motor power	0.18 kW
Rated speed 50/60 Hz	1500/1800 min^{-1}
Protection class IEC 60529	IP 40
Dimensions (L x W x H)	420 mm x 156 mm x 240 mm
Weight	17.0 kg
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	50 dBA
NRTL certification	Yes

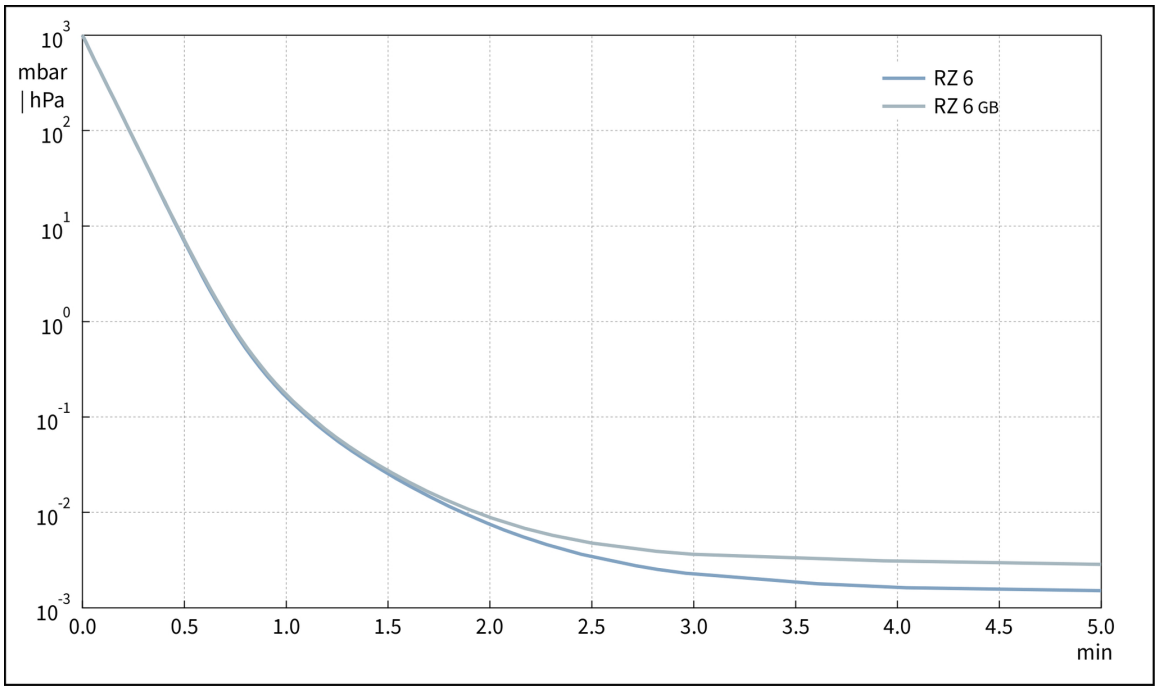
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Pumping speed graph at 50 Hz



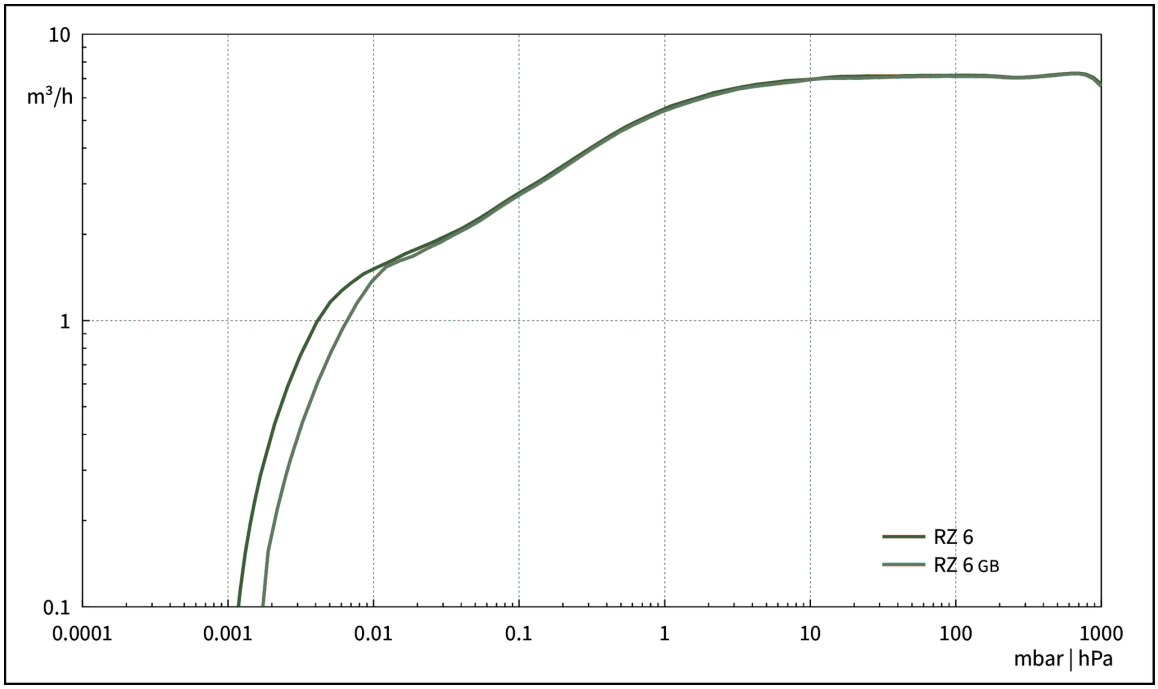
Pump down graph at 50 Hz (10 l volume)



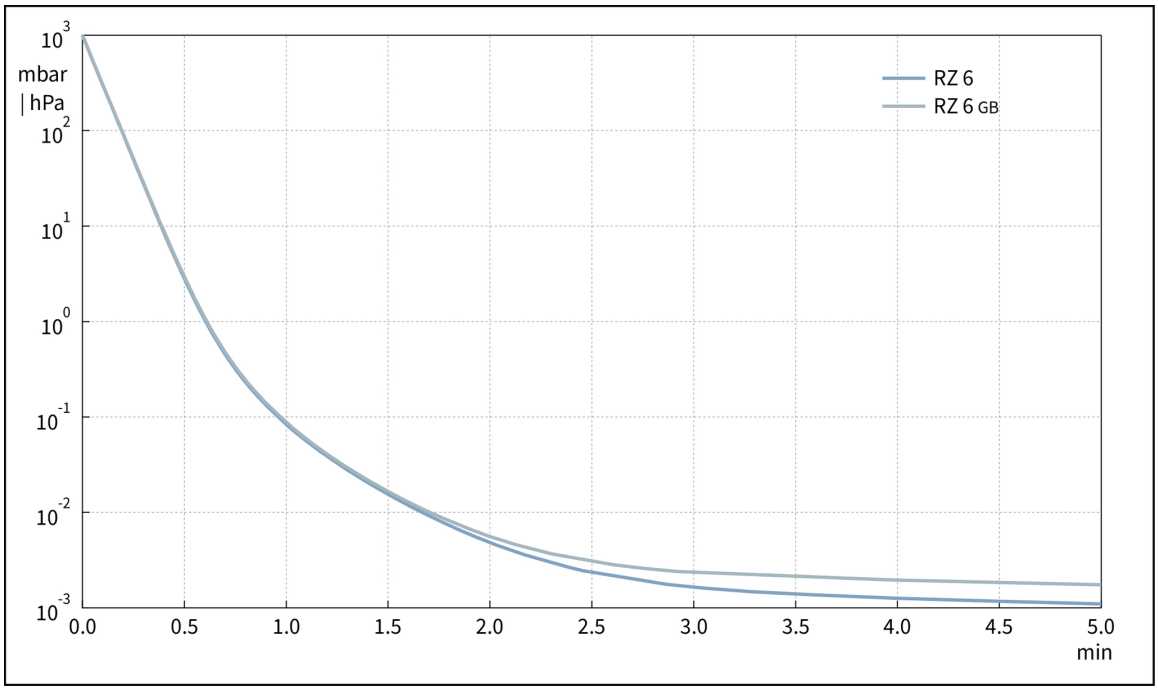
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Pumping speed graph at 60 Hz



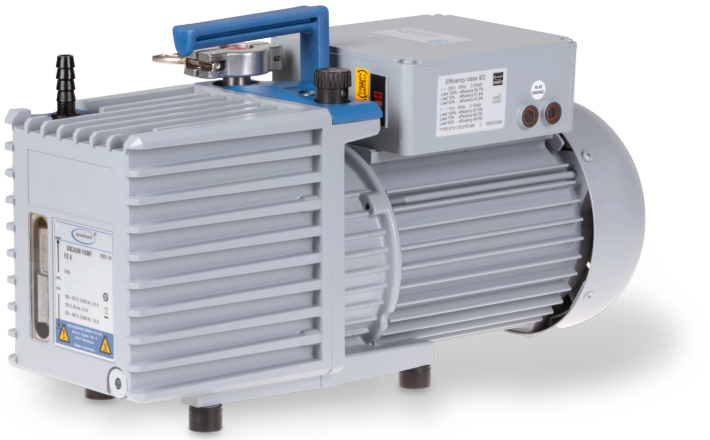
Pump down graph at 60 Hz (10 l volume)

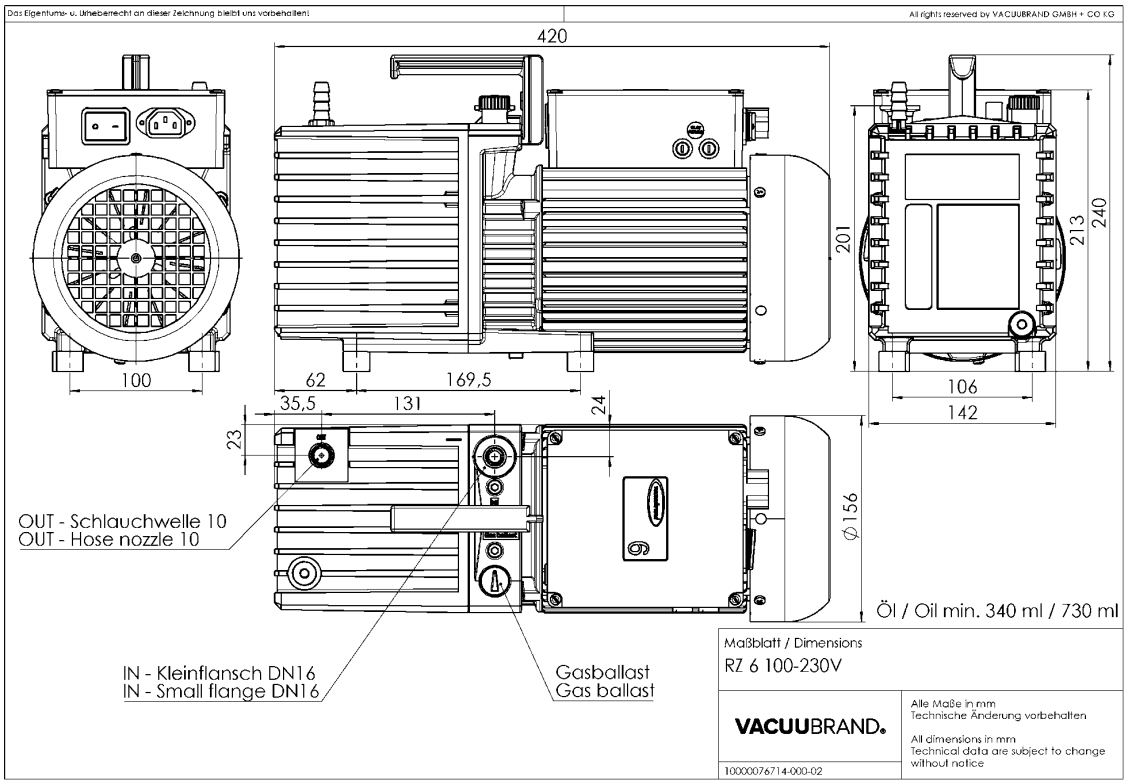


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Dimension sheet





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VACUUBRAND

VACUUBRAND is part of the Brand group, a manufacturer of high-quality and innovative laboratory equipment and vacuum technology with a global team of approx. 1,000 employees.

With highly motivated and qualified employees, we manufacture the world's most comprehensive product family for vacuum generation, measurement and control for the rough and fine vacuum range in the laboratory.

All with one goal:
Enabling our customers to run reliable, safe and efficient processes. This is why we commit ourselves to continuous innovation, first-class performance, and outstanding quality.

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