

# 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.

## 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

## Ordering data

| Product name | Nominal mains voltage   mains frequency      | Plug type | Articleno. |
|--------------|----------------------------------------------|-----------|------------|
| RZ 6         | 230 V   50-60 Hz                             | CEE       | 20798130   |
| RZ 6         | 230 V   50-60 Hz                             | CH        | 20798131   |
| RZ 6         | 230 V   50-60 Hz                             | UK, IN    | 20798132   |
| RZ 6         | 220-230 V   50-60 Hz<br>100-115 V   50-60 Hz | US        | 20798136   |
| RZ 6         | 230 V   50-60 Hz                             | CEE/CN    | 20798138   |

## Items supplied

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

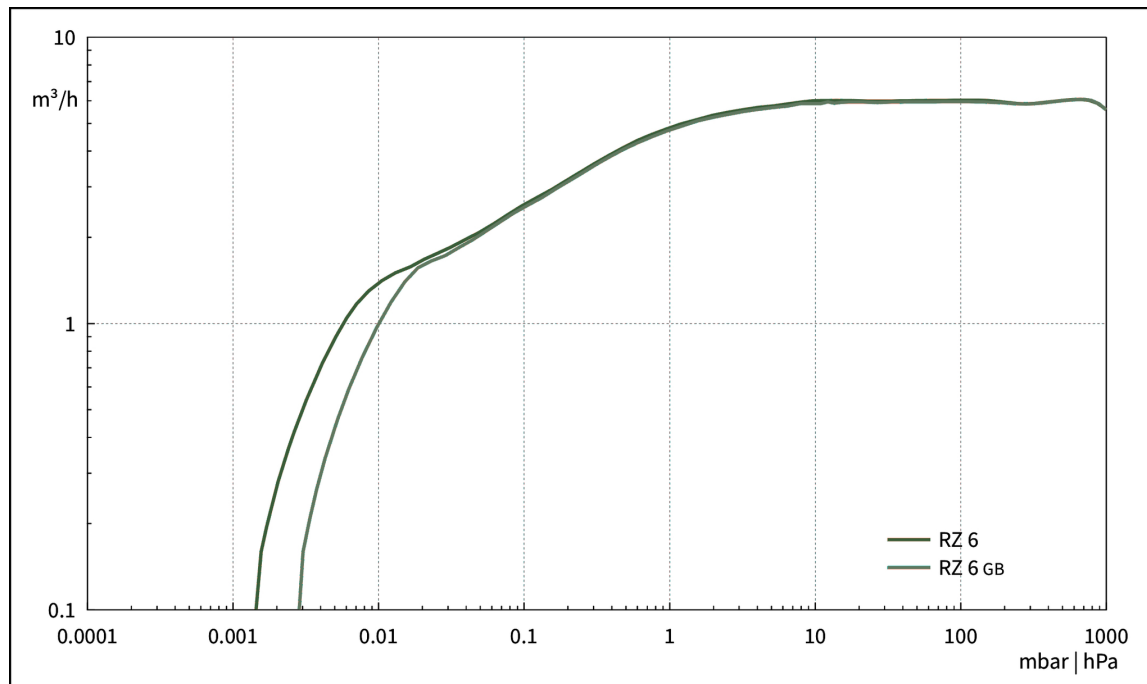
## Accessories

- 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)
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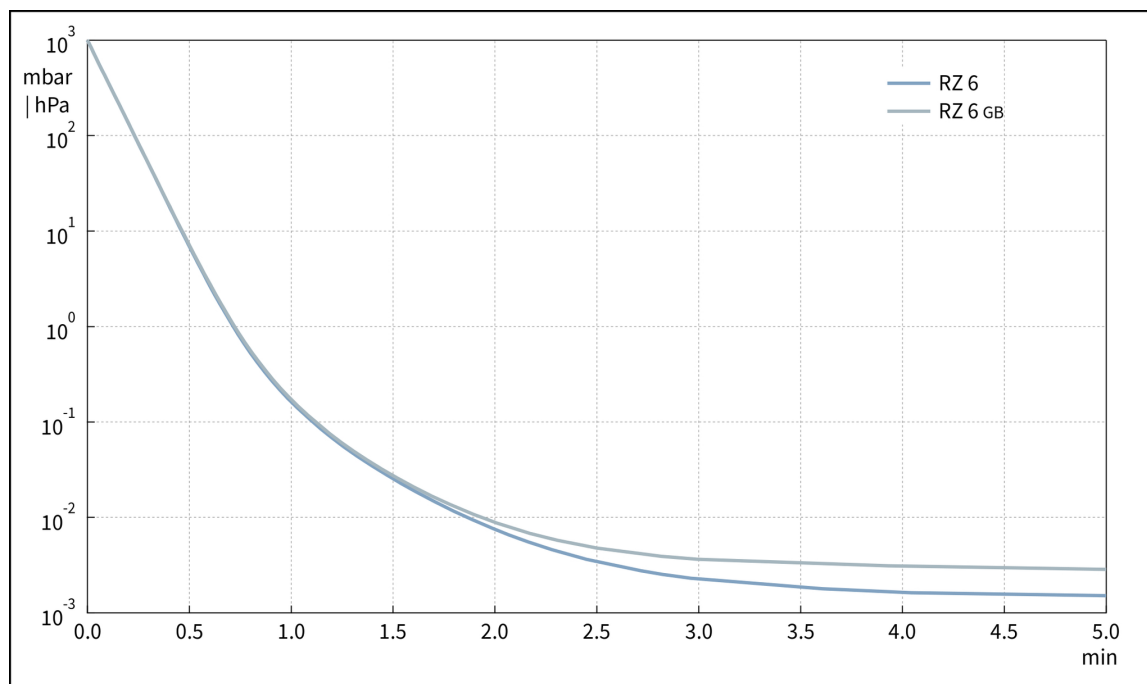
## Technical data

| Max. pumping speed 50 Hz (m <sup>3</sup> /h)                                                                     | 5.7 m <sup>3</sup> /h                                    |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Max. pumping speed 60 Hz (cfm)                                                                                   | 4.0 cfm                                                  |
| Ultimate vacuum                                                                                                  | 2 x 10 <sup>-3</sup> mbar / 1.5 x 10 <sup>-3</sup> torr  |
| Ultimate vacuum with gas ballast                                                                                 | 1 x 10 <sup>-2</sup> mbar / 0.75 x 10 <sup>-2</sup> torr |
| Ultimate partial vacuum without gas ballast                                                                      | 4 x 10 <sup>-4</sup> mbar / 3 x 10 <sup>-4</sup> 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                                    |
| Outlet connection                                                                                                | Hose nozzle DN 8-10 mm                                   |
| Rated motor power                                                                                                | 0.18 kW                                                  |
| Rated speed 50/60 Hz                                                                                             | 1500/1800 min <sup>-1</sup>                              |
| 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                                                                                               | No                                                       |

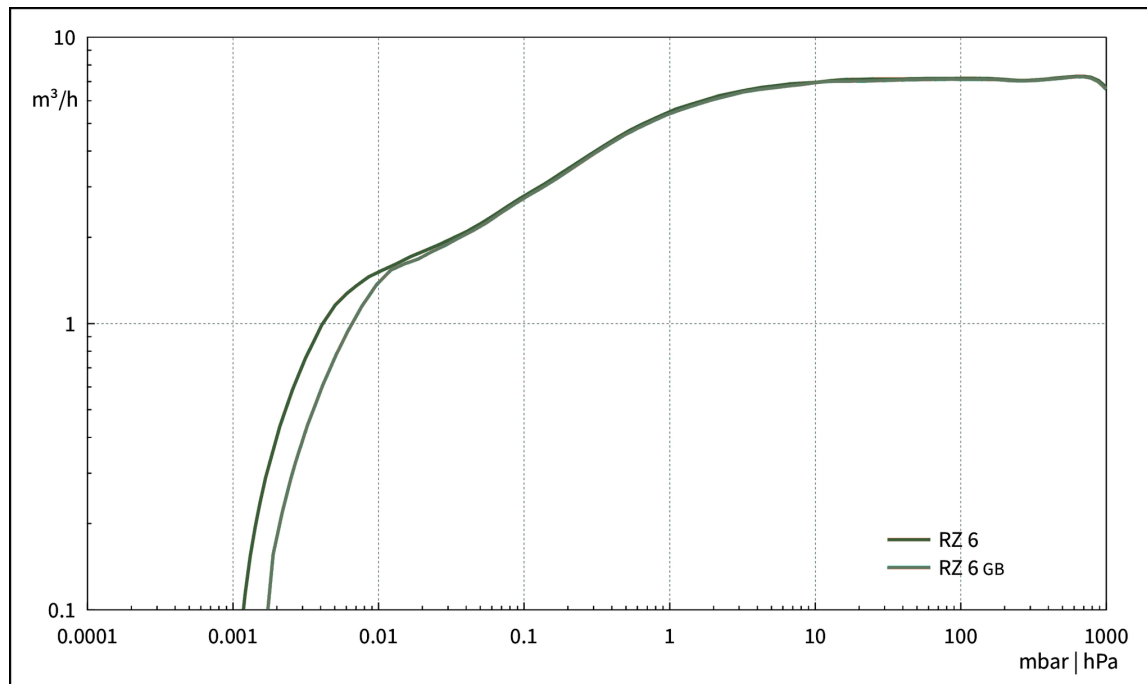
## Pumping speed graph at 50 Hz



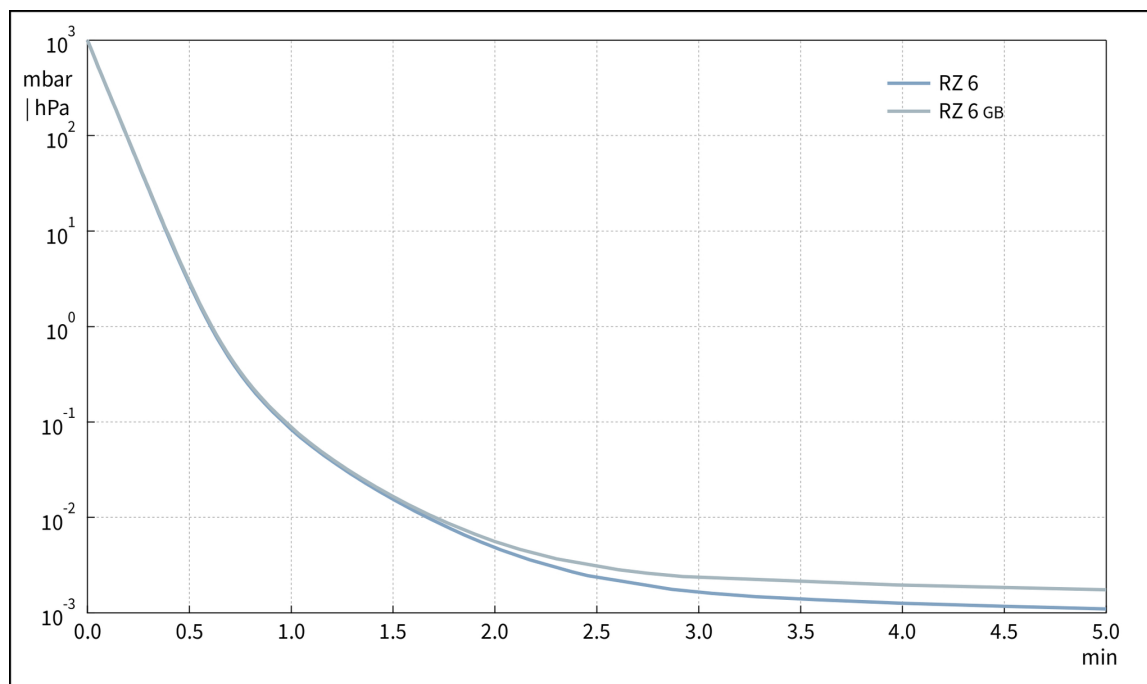
## Pump down graph at 50 Hz (10 l volume)



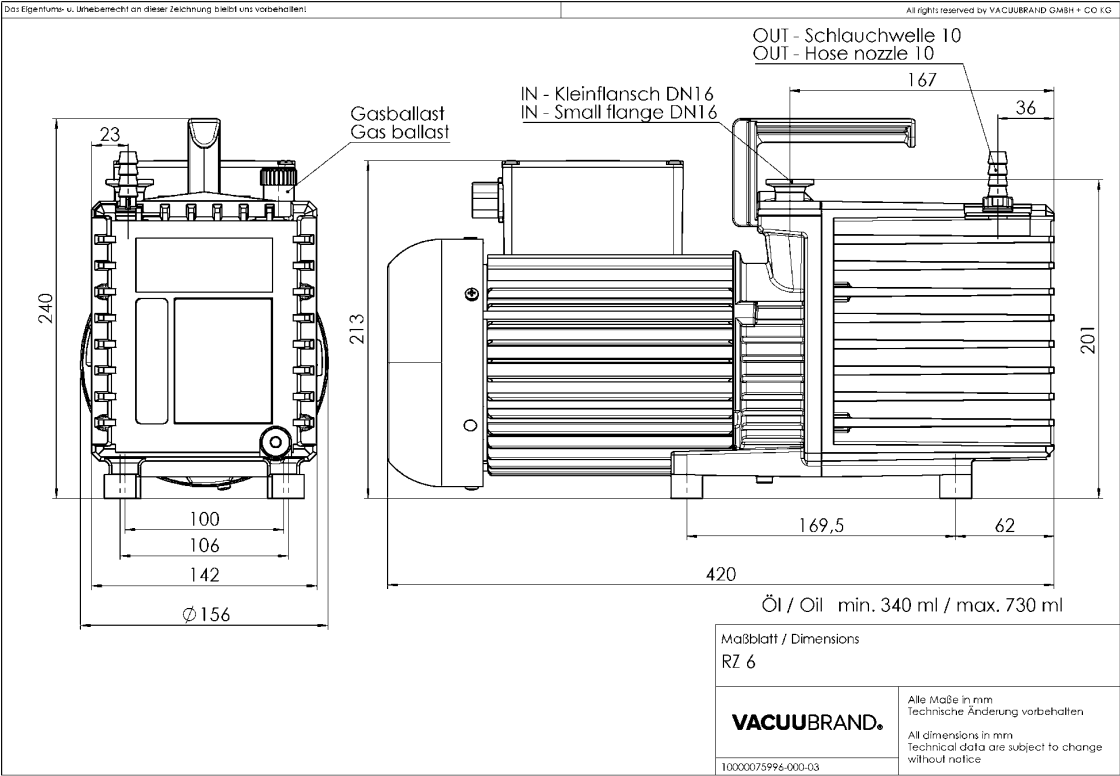
## Pumping speed graph at 60 Hz



## Pump down graph at 60 Hz (10 l volume)



Dimension sheet



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