

DATA SHEET

U 5.101

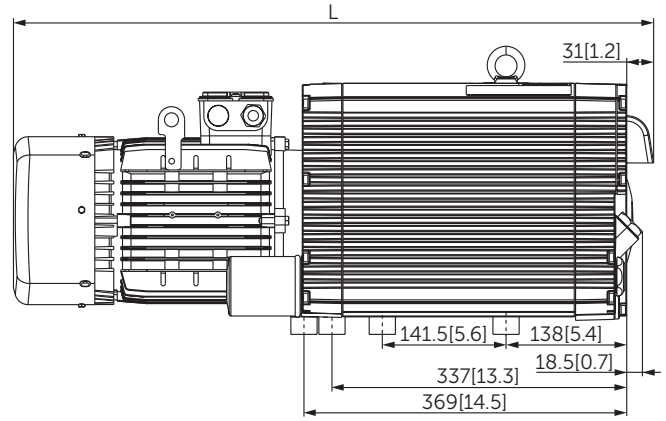
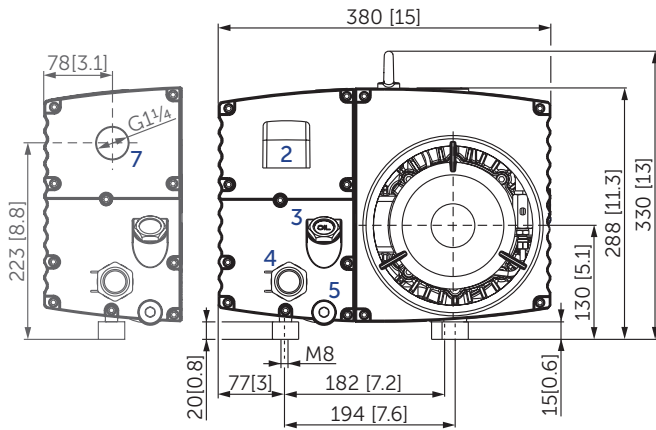
ROTARY VANE- VACUUM PUMPS

oil-lubricated

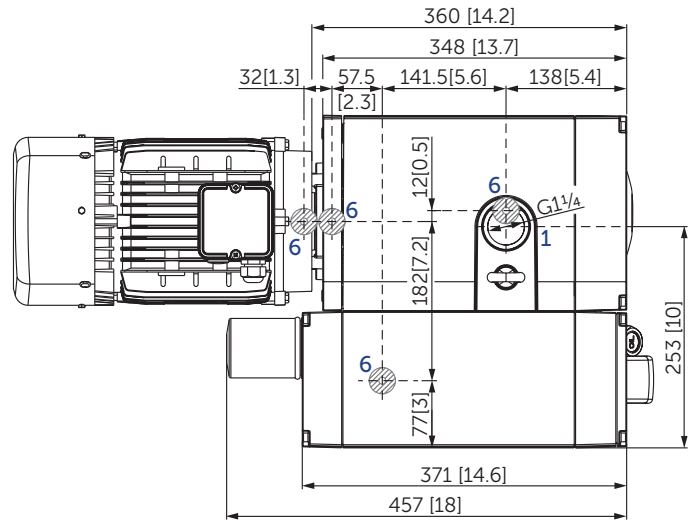
air-cooled

MAKE IT BECKER.





- 1 Vacuum connection (G1¼)
- 2 Exhaust air (diverter)
- 3 Oil filler cap (G¾)
- 4 Oil sight glas (G1)
- 5 Screw plug for oil drain (G½)
- 6 Rubber buffer position
- 7 optional: threaded connector for exhaust air (G1¼)
 - incl. gas ballast valve, non-return valve, oil separator and oil filter
 - The motor illustration may vary
 - Dimensions in mm [inch]



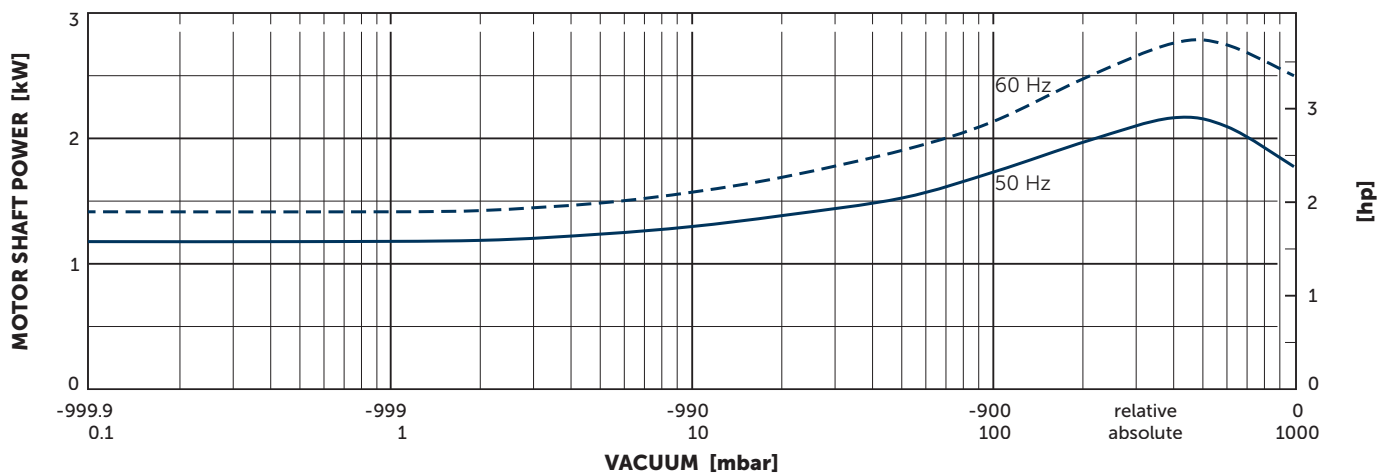
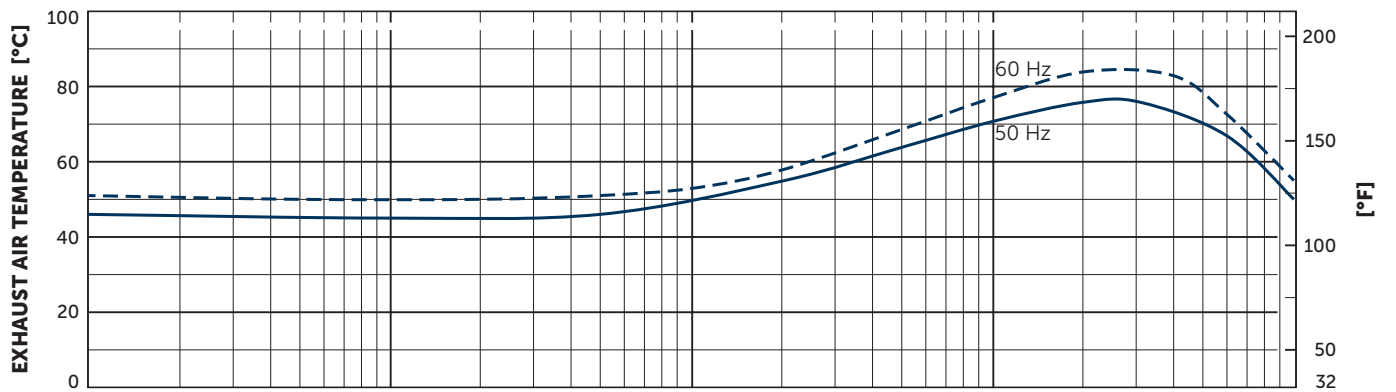
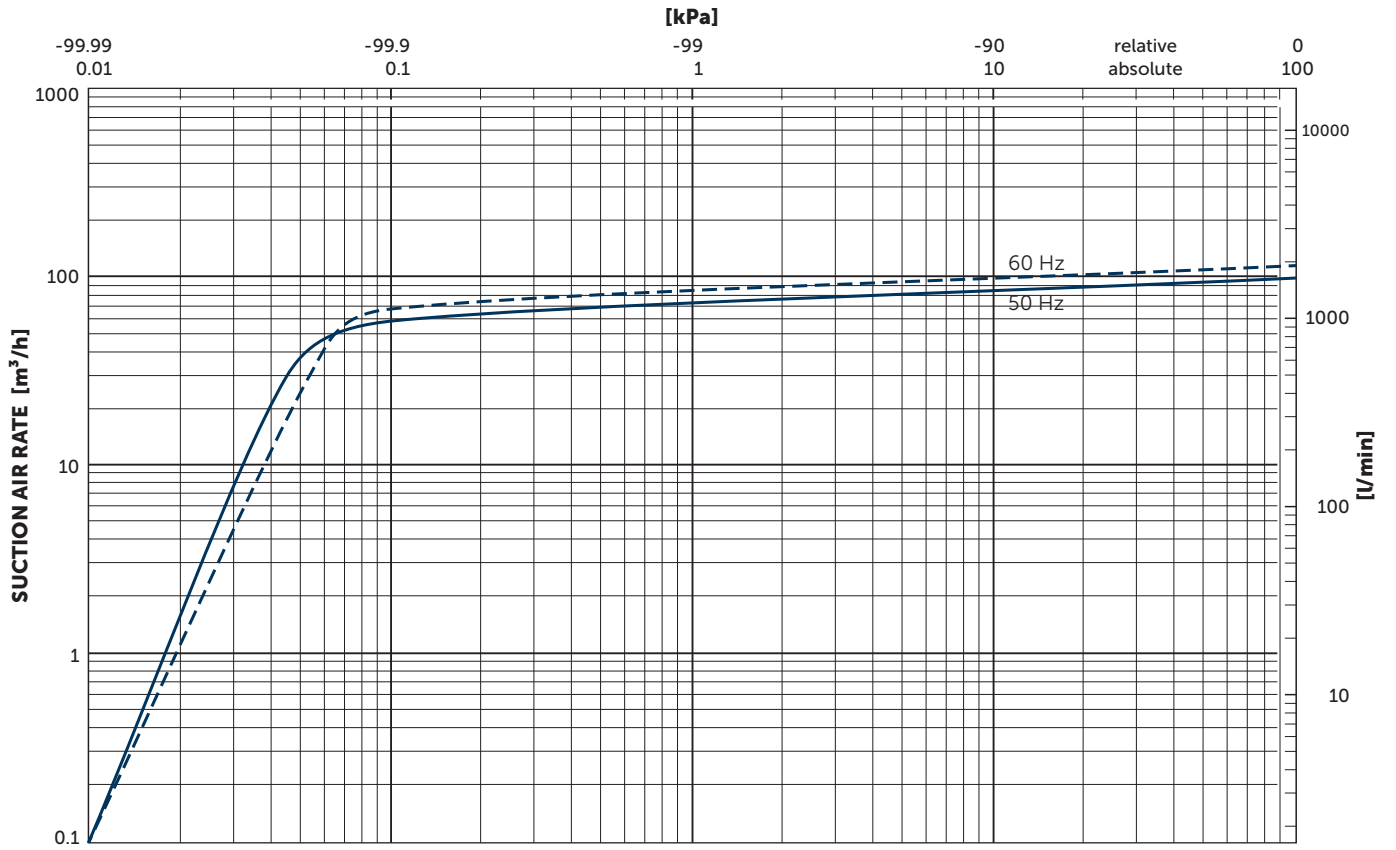
| Nominal capacity | | Vacuum absolute for continuous operation | | Emission sound pressure level ¹⁾ | | Weight w/o motor | Oil ²⁾ |
|-------------------|-------|--|----------|---|-------|------------------|-------------------|
| m ³ /h | | mbar | | dB(A) | | kg | l |
| 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | | |
| 100 | 120 | <0.1–400 | <0.1–400 | 65 | 68 | 40,0 | 2 |

¹⁾ According to DIN EN ISO 11203, accuracy class of measurement: class 2, extended measurement uncertainty: 3 dB
 1 m [39.4 inch] distance, at medium load, both connection sides piped

²⁾ Becker Lube M100 mineral • S100 synthetic • SL100 food packaging applications • SM100 food processing applications
 ▪ Gas ballast valve: vacuum 1.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 7 mbar; water vapour capacity max. 0.9 l/h (at 85°C operating temperature)

| 3~ Motors | | | | | | | | | | | L | | |
|-----------|-------------------------------------|-----------|-------------------|------|----------|------------|-------------------|------|---|---|---------------|---------------|------|
| # | 50 Hz | | | | 60 Hz | | | | Version | Weight kg | mm [inch] | | |
| | kW | V | min ⁻¹ | A | kW | V | min ⁻¹ | A | | | | | |
| 01 | Δ230/Y400 IE3 1460 7.45/4.3 | | | | | | | | CC055B NEMA Premium UL(E68554) CSA IP55 ISO F PTC | 29.0 | 706 [27.8] | | |
| | 2.2 | Y380 | IE3 | 1454 | 4.5 | 2.2 | Y460 | IE3 | | | | 1766 | 3.8 |
| | Y415 IE3 1464 4.3 | | | | | | | | | | | | |
| | | | | | 2.64 | Δ208 | | | | | | 1740 | 9.7 |
| | | | | | | Δ230 | | | | | | 1752 | 8.7 |
| | | | | | Y400 | | | 1752 | 5.0 | | | | |
| | | | | | Y460 | | | 1758 | 4.4 | | | | |
| 02 | | | | | 2.6 | YY230/Y460 | IE3 | 1765 | 9.3/4.6 | UL(E365362) • CSA CC334B IP55 • ISO F • bimetal | 37.0 | 741 [29.2] | |
| | | | | | YY208 | | | 1755 | 9.7 | | | | |
| 03 | Δ220/Y380-400 IE3 1750 10.6/6.1–5.8 | | | | | | | | UL(E365362) • CSA IP55 • ISO F • bimetal | 29.0 | 728 [28.7] | | |
| | 2.2 | Δ200/Y350 | IE3 | 1460 | 11.2/6.5 | 2.6 | Δ200/Y350 | | | | | | 1740 |
| 04 | | | | | 2.6 | Δ400/Y690 | IE3 | 1760 | 5.25/3.03 | UL(E365362) • CSA IP55 • ISO F • bimetal | 37.0 | 741 [29.2] | |

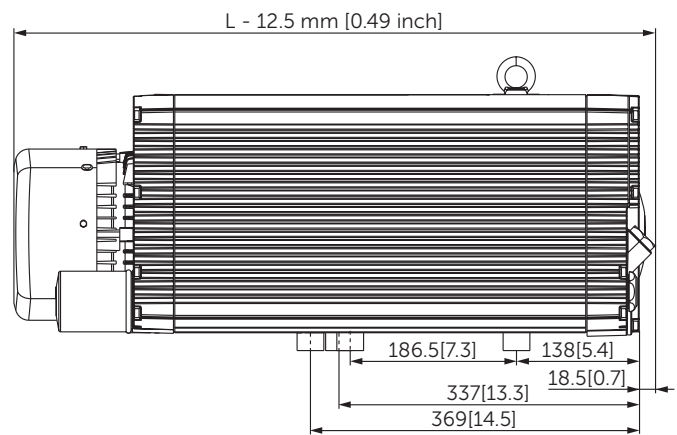
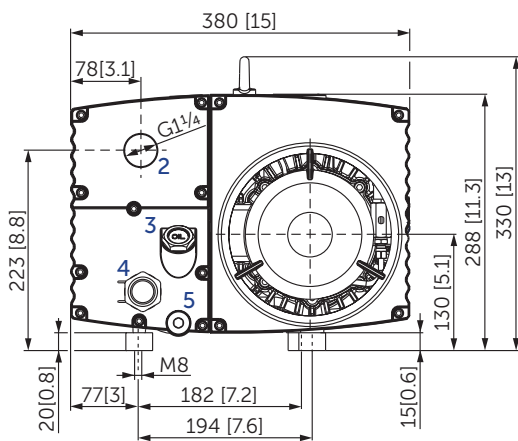
• Type plate data on current consumption and rotation speed of the motors may vary. Tolerance -1.5/+2% in each case.



Suction air rate refers to the intake pressure
 Reference data (atmosphere): 1000 mbar (100 kPa), 20°C (68°F)
 Tolerance: ±10%

+ VARIANTS AND ACCESSORIES

- **U 5.101 O2-PACK**¹⁾ for packaging with an overconcentration of oxygen
- **VARIAIR U 5.101**¹⁾ with frequency inverter
- **U 5.101/0-62 XL** with enlarged oil tank (3.25 litres of oil) and high efficient triple stage oil separation (motors and characteristic curves like standard pump)

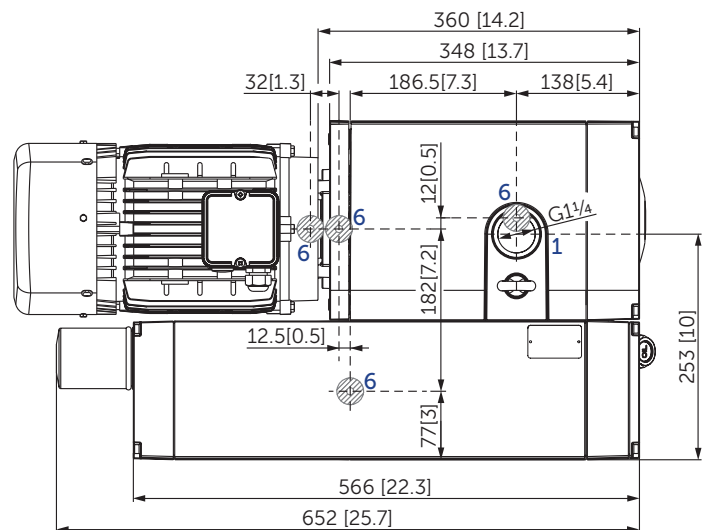


U 5.101/0-62 XL

- 1 Vacuum connection (G1 1/4)
- 2 Exhaust air connection (G1 1/4)
- 3 Oil filler cap (G 3/4)
- 4 Oil sight glass (G1)
- 5 Screw plug for oil drain (G 1/2)
- 6 Rubber buffer position

L Length see motor table

- incl. gas ballast valve, non-return valve, oil separator and oil filter
- The motor illustration may vary
- Dimensions in mm [inch]



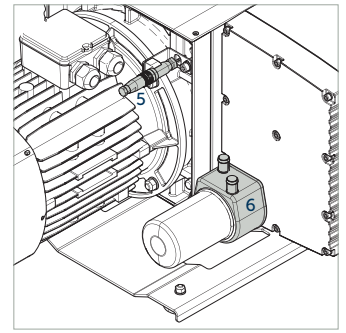
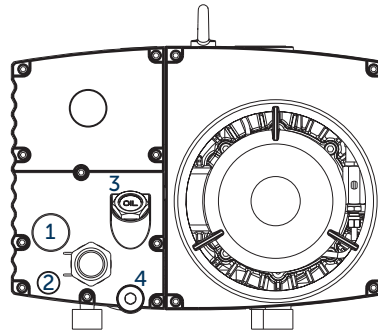
¹⁾ See separate data sheet

- Combination options on request

ACCESSORIES

- External suction filter¹⁾
- Oil:
 - Becker Lube M100 mineral
 - S100 synthetic
 - SL100 food packaging applications
 - SM100 food processing applications

- 1 Oil level switch¹⁾ (G1)
- 2 Oil temperature monitor¹⁾ (G $\frac{1}{2}$)
- 3 Maintenance indicator¹⁾ (G $\frac{3}{4}$) for oil separating elements
- 4 Ball valve (G $\frac{1}{2}$), with locking and hose connector 19 mm [0.75 inch]
- 5 Temperature sensor PT100
- 6 Water cooler U5.100-0-114.2¹⁾



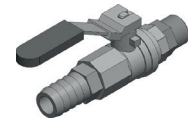
Oil level switch



Oil temperature monitor



Maintenance indicator



Ball valve

| U 5.101 versions | Gas ballast valve | | Threaded connector for exhaust air | Prepared for additional accessories (e.g. oil level switch; see above) |
|---------------------|---|--------------------------------------|------------------------------------|--|
| | Standard | for increased water vapour tolerance | | |
| U 5.101/0-00 | ✓ | | | |
| U 5.101/0-01 | vacuum 1.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 7 mbar; water vapour capacity max. 0.9 l/h (at 85°C operating temperature) | | ✓ (G1 $\frac{1}{4}$) | |
| U 5.101/0-02 | | | | ✓ |
| U 5.101/0-03 | | | ✓ (G1 $\frac{1}{4}$) | ✓ |
| U 5.101/0-04 | ✓ | | | |
| U 5.101/0-05 | vacuum 3.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 62 mbar; water vapour capacity max. 2.4 l/h (at 85°C operating temperature) | | ✓ (G1 $\frac{1}{4}$) | |
| U 5.101/0-06 | | | | ✓ |
| U 5.101/0-07 | | | ✓ (G1 $\frac{1}{4}$) | ✓ |

¹⁾ See separate data sheet
 ▪ Combination options on request



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