DATA SHEET

U 5.166

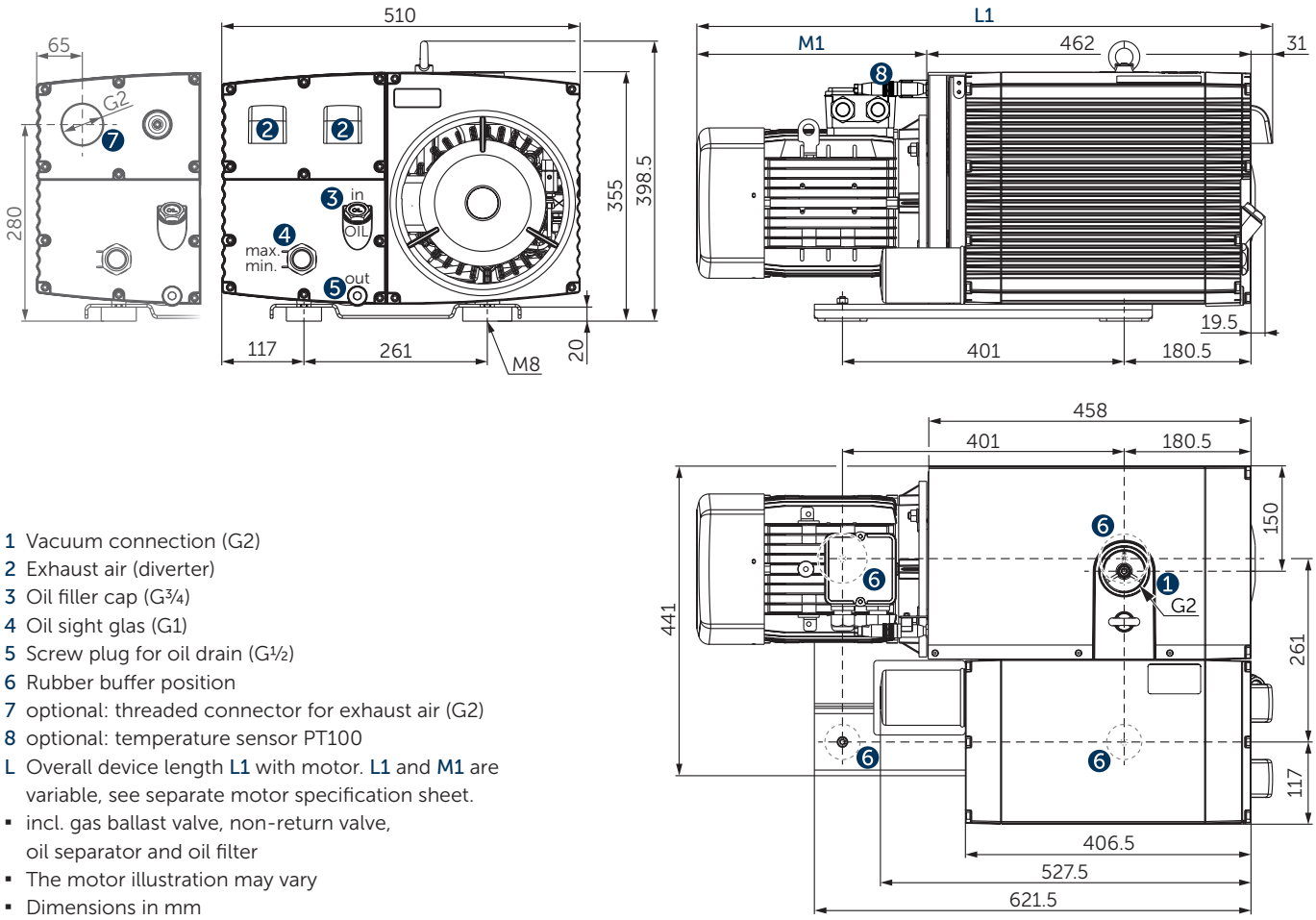
ROTARY VANE VACUUM PUMPS

oil-lubricated
air-cooled

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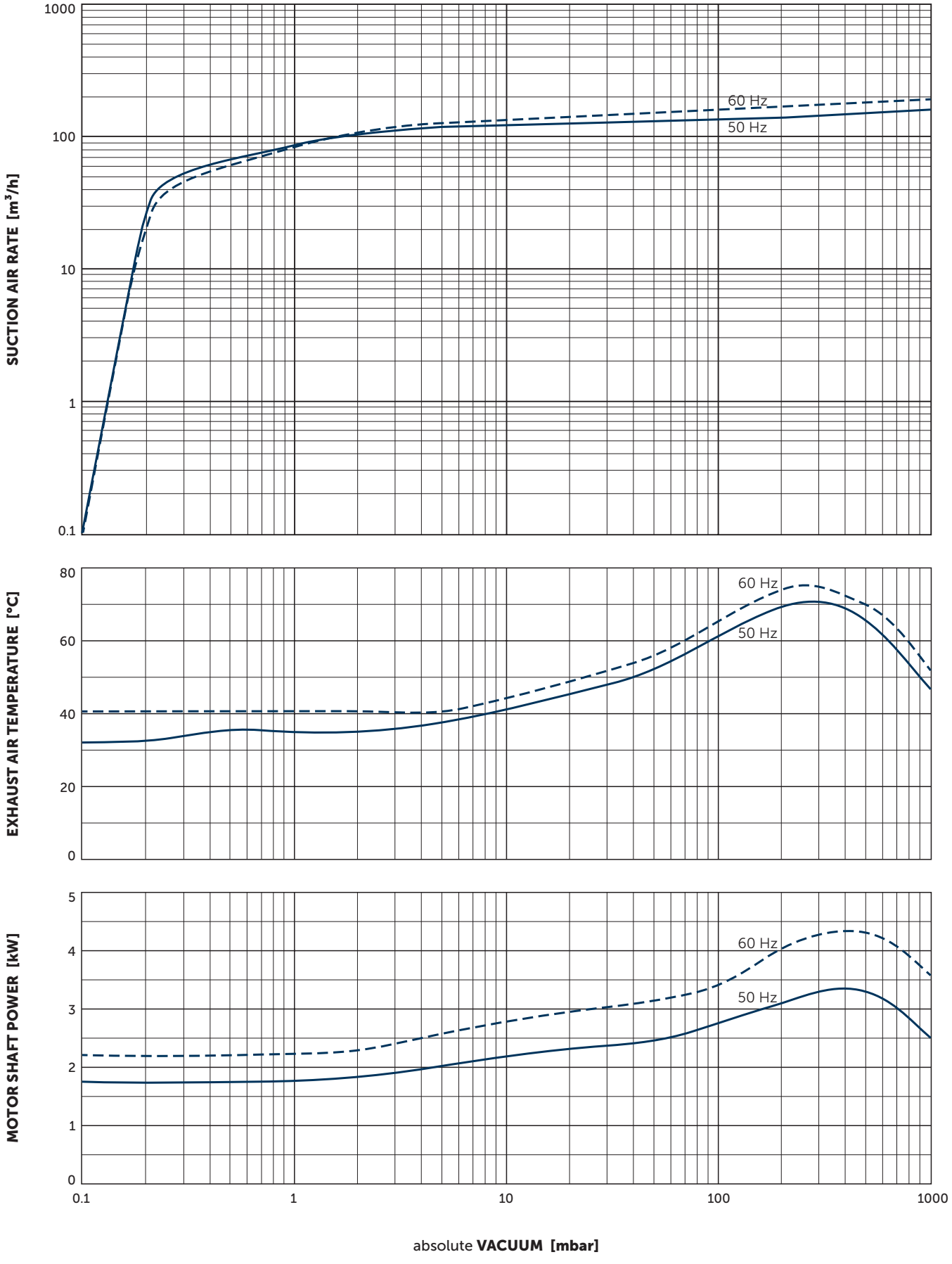
1 Vacuum connection (G2)
2 Exhaust air (diverter)
3 Oil filler cap (G¾)
4 Oil sight glas (G1)
5 Screw plug for oil drain (G½)
6 Rubber buffer position
7 optional: threaded connector for exhaust air (G2)
8 optional: temperature sensor PT100
L Overall device length L1 with motor. L1 and M1 are variable, see separate motor specification sheet.

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

Nominal capacity		Vacuum absolute for continous operation		Installed motor power		Emission sound pressure level[1]		Weight w/o motor	Oil[2]
m^3/h		mbar		kW		dB(A)		kg	l
50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
165	198	<0,1–100	<0,1–100	3.0	3.6	70	72	70	5
165	198	<0,1–400	<0,1–400	4.0	4.5–4.8	70	72	70	5

[1] According to DIN EN ISO 11203, accuracy class of measurement: class 2, extended measurement uncertainty: 3 dB
1 m distance, at medium load, both connection sides piped
[2] Becker Lube M100 mineral • S100 synthetic • SL100 food packaging applications • SM100 food processing applications

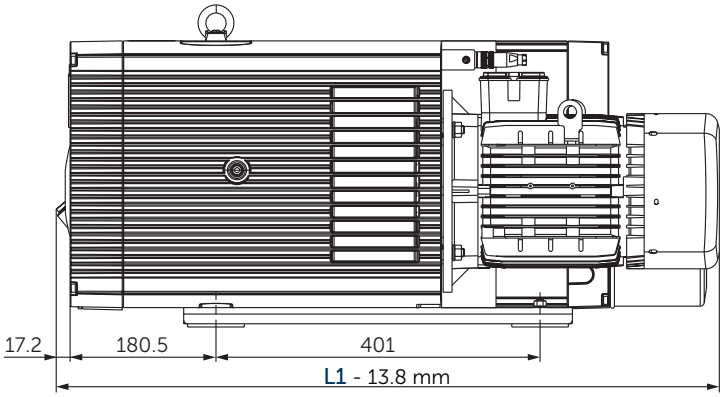
- Reference data (atmosphere): 1000 mbar, 20°C; Tolerance: ±10%
- Gas ballast valve: vacuum 1.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 7 mbar; water vapour capacity max. 0.3 l/h (at 85°C operating temperature)

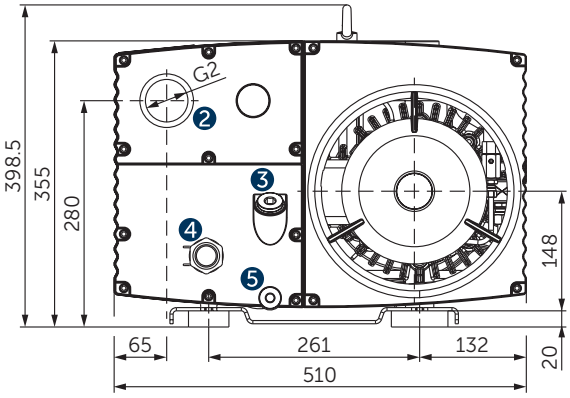


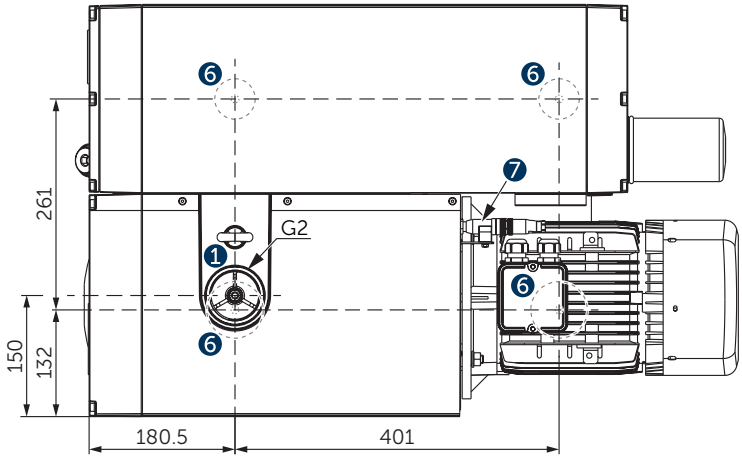
Suction air rate refers to the intake pressure
Reference data (atmosphere): 1000 mbar, 20°C
Tolerance: ±10%

VARIANTS AND ACCESSORIES

- **U 5.166 O2-PACK**[1] for packaging with an overconcentration of oxygen
- **U 5.166/0-62 XL** with enlarged oil tank and high efficient triple stage oil separation,
  weight without motor: 80 kg, oil quantity: 10 l, further technical data, motors and characteristic curves like standard pump







U 5.166/0-62 XL

1 Vacuum connection (G2)
2 Exhaust air connection (G2)
3 Oil filler cap (G¾)
4 Oil sight glas (G1)
5 Screw pluGfor oil drain (G½)
6 Rubber buffer position
7 Optional temperature sensor PT100
L Length see motor table

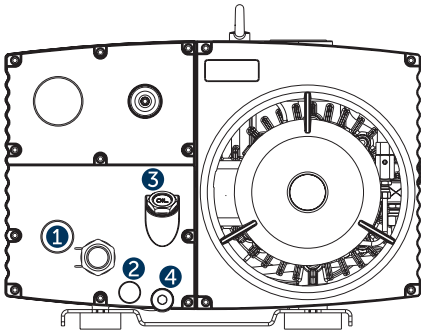
- incl. gas ballast valve, non-return valve, oil separator and oil filter
- The motor illustration may vary
- Dimensions in mm

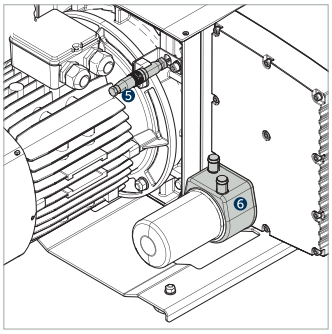
[1] See separate data sheet
- Combination options on request

ACCESSORIES

- External **suction filter** [1)]
- **Oil:**
  - Becker Lube M100 mineral
  - S100 synthetic
  - SL100 food packaging applications
  - SM100 food processing applications

1 **Oil level switch** [1)] (G1)
2 **Oil temperature monitor** [1)] (G½)
3 **Maintenance indicator** [1)] (G¾) for oil separating elements
4 **Ball valve** (G½), with locking and hose connector 19 mm
5 **Temperature sensor PT100**
6 **Water cooler U5.200-0-114.2** [1)]

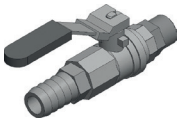





Oil level switch


Oil temperature monitor


Maintenance indicator


Ball valve

U 5.166 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 5.166/0-00	✓ vacuum 1.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 7 mbar; water vapour capacity max. 0.3 l/h (at 85°C operating temperature)			
U 5.166/0-01			✓ (G2)	
U 5.166/0-02				✓
U 5.166/0-03			✓ (G2)	✓
U 5.166/0-04		✓ vacuum 3.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 50 mbar; water vapour capacity max. 2 l/h (at 85°C operating temperature)		
U 5.166/0-05			✓ (G2)	
U 5.166/0-06				✓
U 5.166/0-07			✓ (G2)	✓

[1)] See separate data sheet
- Combination options on request

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