

DATA SHEET

U 5.301

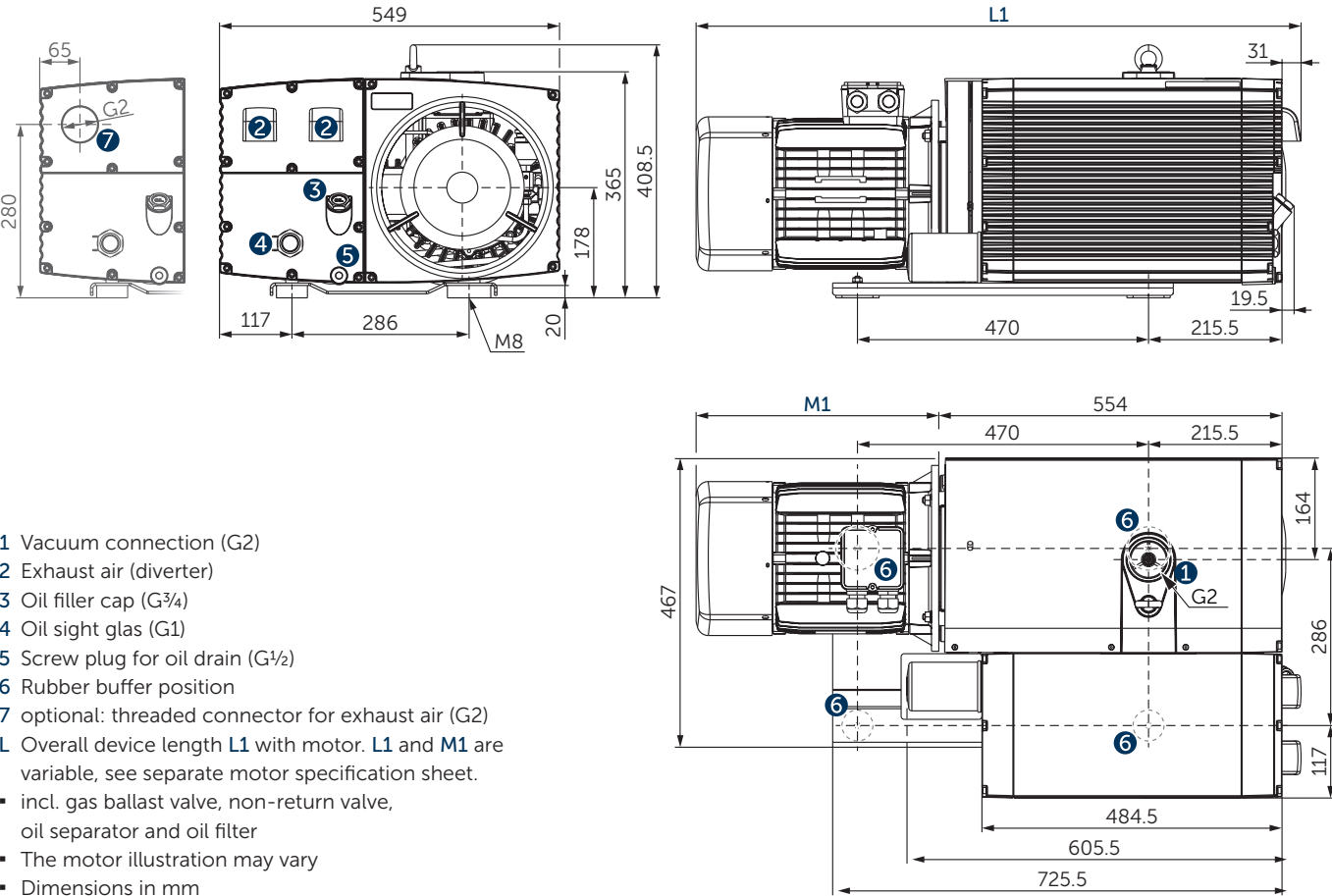
ROTARY VANE VACUUM PUMPS

oil-lubricated
air-cooled

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- 1** The optimised airflow maximises efficiency while requiring minimal installation space.
- 2** Two-stage oil separation effectively purifies the air and prevents contamination of the extracted air.
- 3** The sophisticated design directs the fan flow in a targeted manner, ensuring efficient temperature management and optimum cooling.



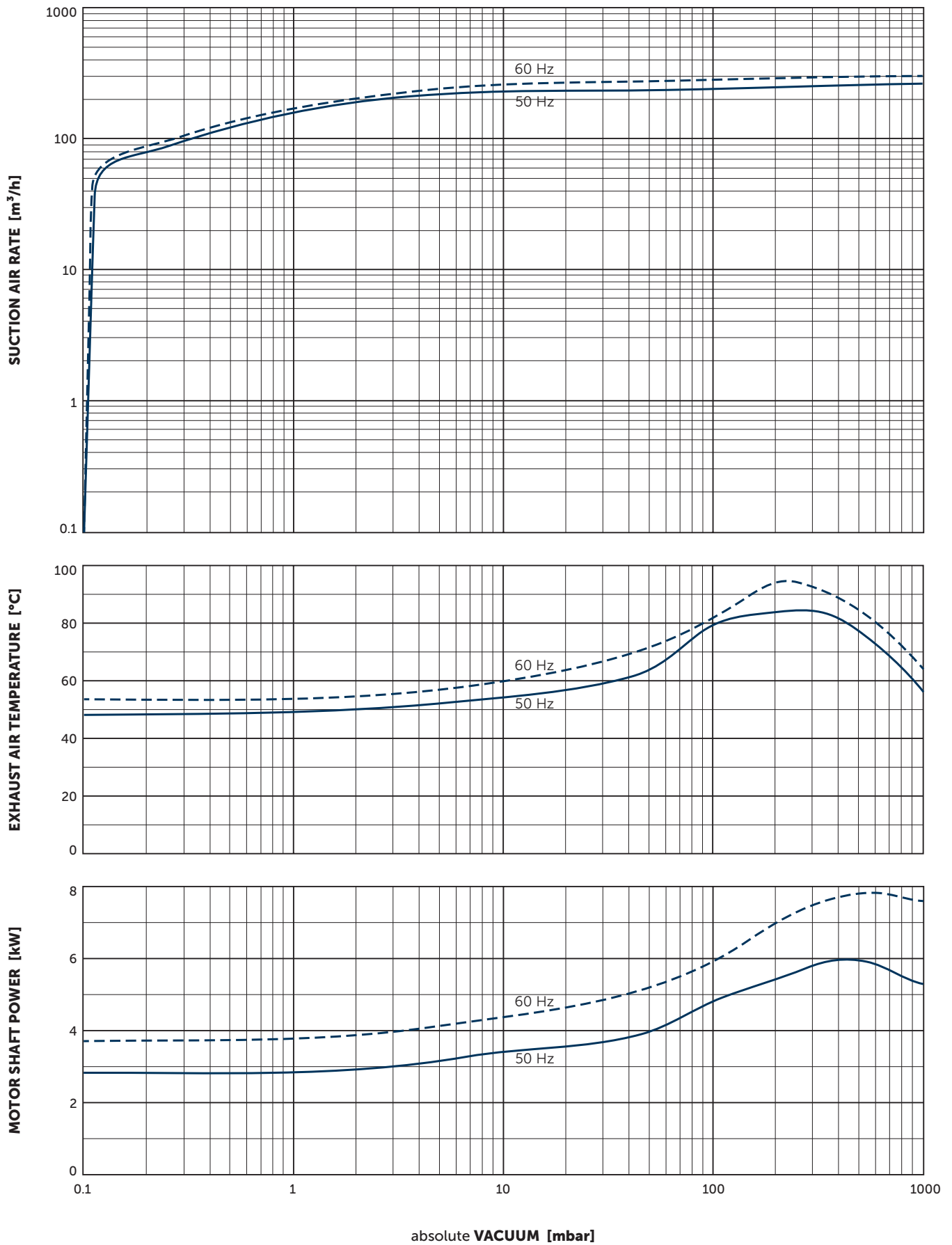
Nominal capacity		Vacuum absolute for continous operation		Installed motor power		Emission sound pressure level ²⁾		Weight w/o motor	Oil ³⁾
m ³ /h		mbar		kW		dB(A)		kg	l
50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
300	360	<0.1–100	<0.1–100	5.5	6.6	73	76	90	6
300	360	<0.1–400	<0.1–400	7.5	9.0	73	76	90	6

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%

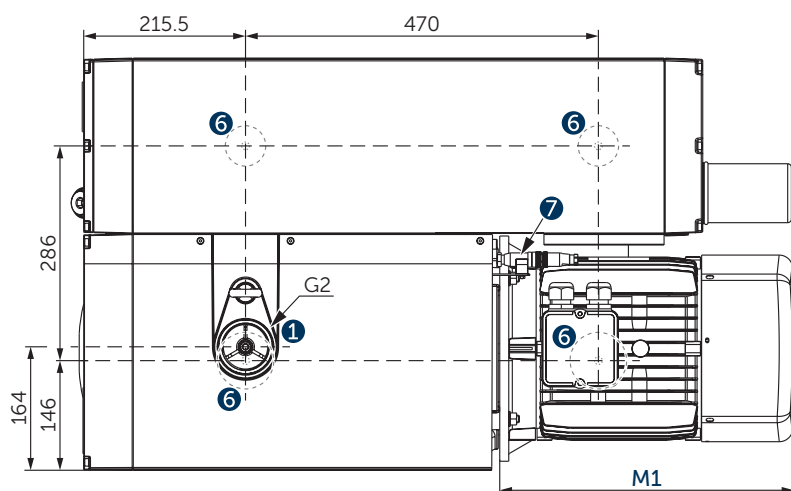
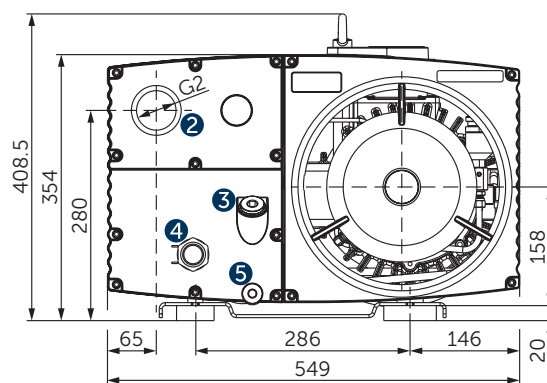
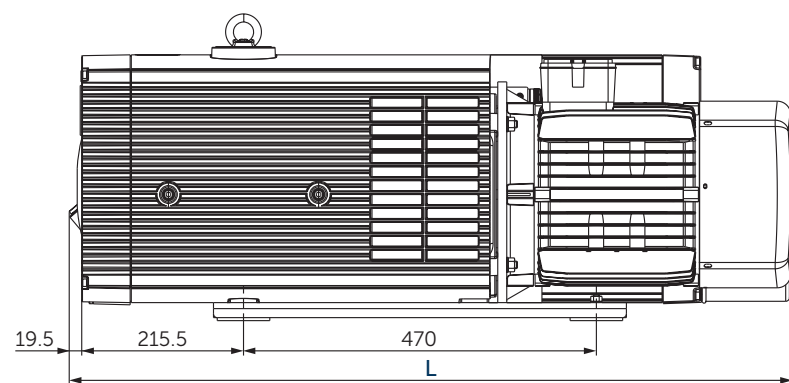
Gas ballast valve: vacuum 1.0 mbar abs. with opened gas ballast valve; water vapour tolerance max. 40 mbar; water vapour capacity max. 5.0/5.6 l/h 50/60 Hz (at 85°C operating temperature)



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

+ VARIANTS AND ACCESSORIES

- **VARIAR U 5.301¹⁾** with VARIAIR frequency inverter
- **U 5.301 O2-PACK¹⁾** for packaging with an overconcentration of oxygen
- **U 5.301/0-62XL** with enlarged oil tank and high efficient triple stage oil separation, weight without motor: 105 kg, oil quantity: 13 l, further technical data, motors and characteristic curves like standard pump



U 5.301/0-62 XL

- 1 Vacuum connection (G2)
 - 2 Exhaust air connection (G2)
 - 3 Oil filler cap (G $\frac{3}{4}$)
 - 4 Oil sight glass (G1)
 - 5 Screw plug for oil drain (G $\frac{1}{2}$)
 - 6 Rubber buffer position
 - 7 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

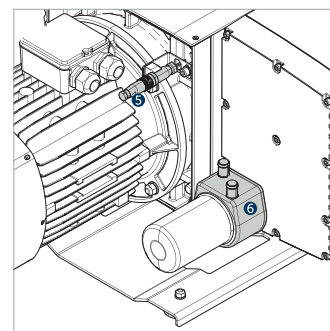
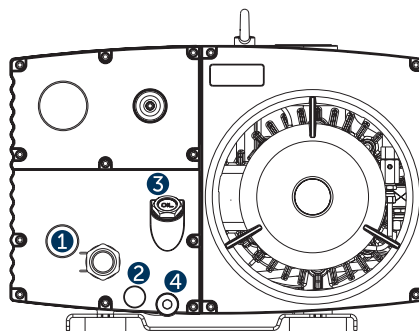
¹⁾ See separate data sheet

- 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
- 5 Temperature sensor PT100
- 6 Water cooler U5.200-0-114.2¹⁾



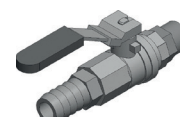
Oil level switch



Oil temperature monitor



Maintenance indicator



Ball valve

U 5.301 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 5.301/0-00	✓ vacuum 1.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 40 mbar;			
U 5.301/0-01			✓ (G2)	
U 5.301/0-02	water vapour capacity max. 5.0/5.6 l/h 50/60 Hz			✓
U 5.301/0-03	(at 85°C operating temperature)		✓ (G2)	✓
U 5.301/0-04	✓ vacuum 3.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 70 mbar;			
U 5.301/0-05			✓ (G2)	
U 5.301/0-06	water vapour capacity max. 10/13 l/h 50/60 Hz			✓
U 5.301/0-07	(at 85°C operating temperature)		✓ (G2)	✓

¹⁾ See separate data sheet

- Combination options on request

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HOMEPAGE
U SERIES



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