

DATA SHEET

U 5.166

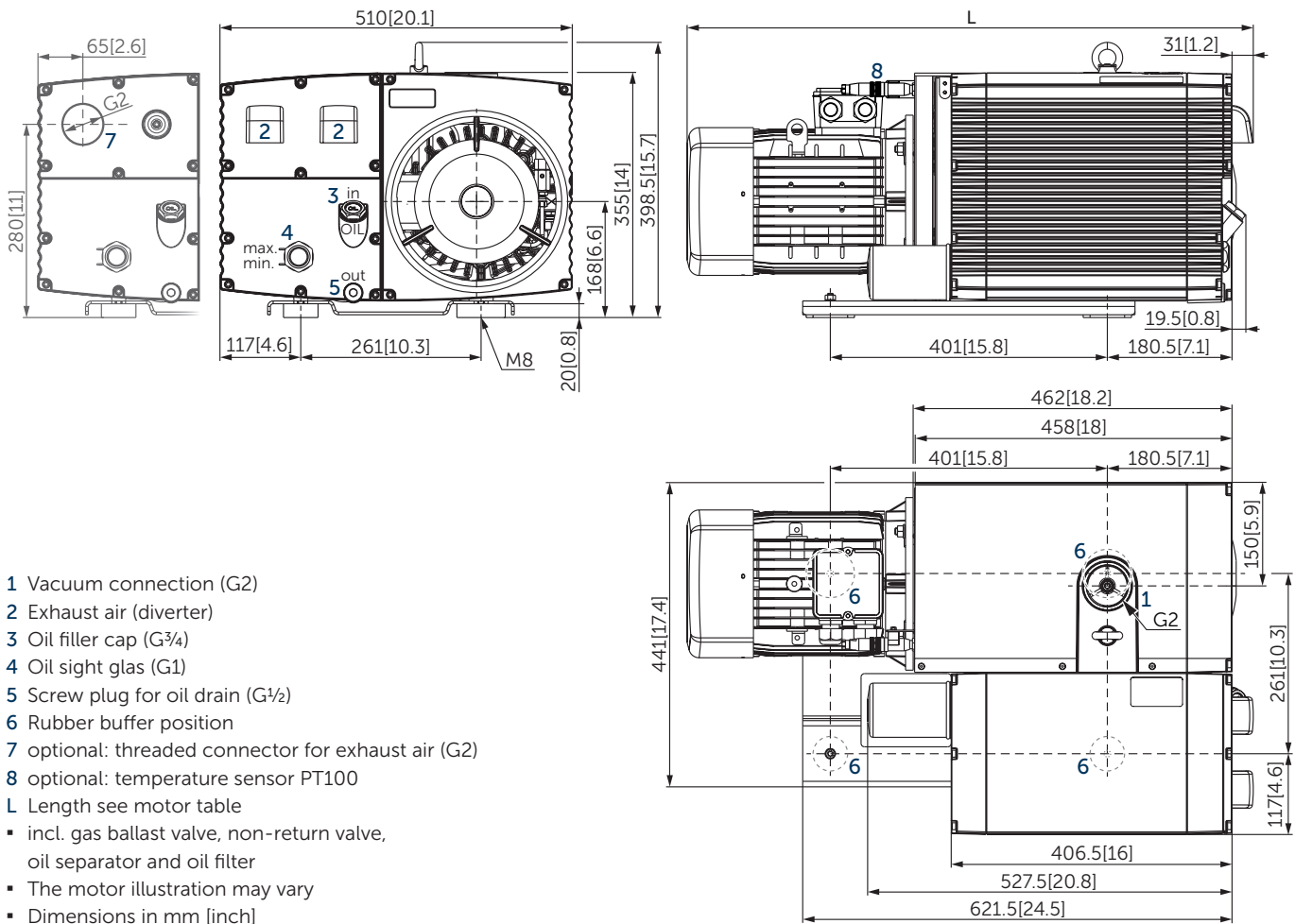
ROTARY VANE- VACUUM PUMPS

oil-lubricated

air-cooled

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Nominal capacity		Vacuum absolute for continous operation		Motors		Emission sound pressure level ¹⁾		Weight w/o motor	Oil ²⁾
m³/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	4.8	70	72	70	5

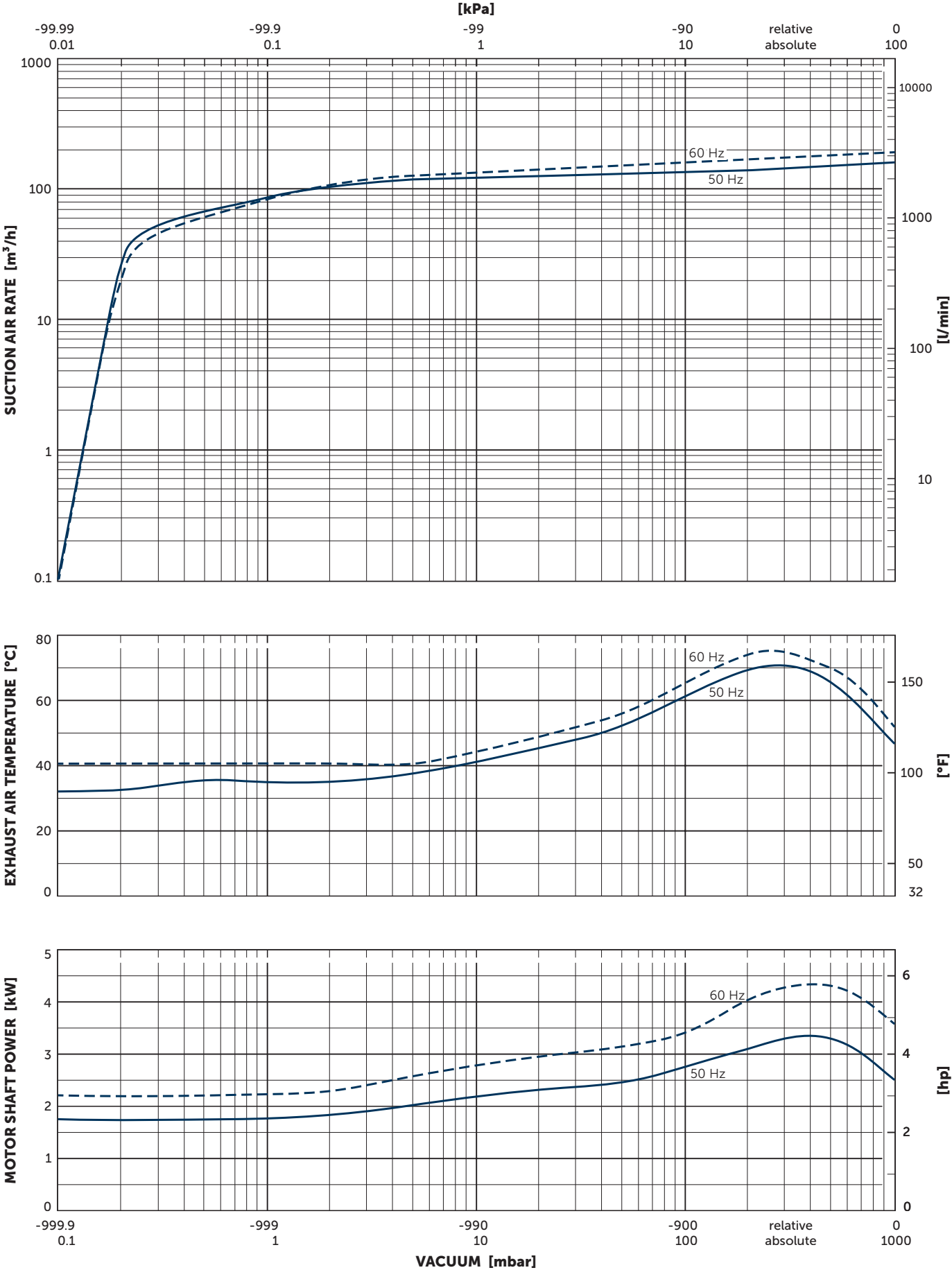
¹⁾ According to DIN EN ISO 11203, accuracy class of measurement: class 2, extended measurement uncertainty: 3 dB
1 m [39.4 inch] distance, at medium load, both connection sides piped

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. 0.3 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	3.0	Δ230/Y400	IE3	1445	12.1/7.0	3.6	Δ265/Y460 Δ230/Y400	IE3	1735 1705	12.0/6.9 12.7/7.3	UL (E365362) • CSA IP 55 • ISO F • bimetal	29	835 [32.9]
02	3.0	Y400	IE3	1460	7.0	3.6	YY230/Y460 YY208	IE3	1755 1735	12.7/6.3 13.5	UL (E365362) • CSA CC IP 55 • ISO F • bimetal	37	842 [33.2]
03	3.0	Δ200/Y350	IE3	1463	12.9/7.47	3.6	Δ200/Y380–400 Δ200/Y350	IE3	1753 1739	13.2/7.6–7.24 13.8/8.0	UL (E365362) • CSA IP 55 • ISO F • bimetal	37	842 [33.2]
04						3.6	Δ400/Y690	IE3	1755	7.28/4.2	UL (E365362) • CSA IP 55 • ISO F • bimetal	37	842 [33.2]
05	4.0	Δ230/Y400	IE3	1450	14.9/8.6	4.8	Δ265/Y460 Δ230/Y400	IE3	1740 1710	14.8/8.5 16.0/9.2	UL (E365362) • CSA IP 55 • ISO F • bimetal	34	821 [32.3]
06						4.8	YY230/Y460 YY208	IE3	1740 1710		UL (E365362) • CSA IP 55 • ISO F • bimetal	34	821 [32.3]
07	4.0	Δ200/Y350				4.8	Δ200/Y380–400 Δ200/Y350	IE3	1740 1710		UL (E365362) • CSA IP 55 • ISO F • bimetal	34	821 [32.3]
08						4.8	Δ400	IE3	1740	9.8	UL (E365362) • CSA IP 55 • ISO F • bimetal	34	821 [32.3]

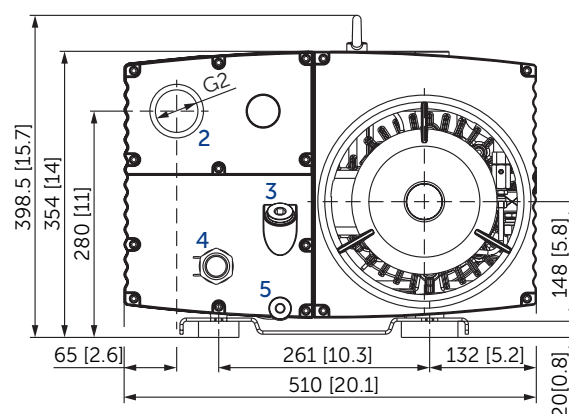
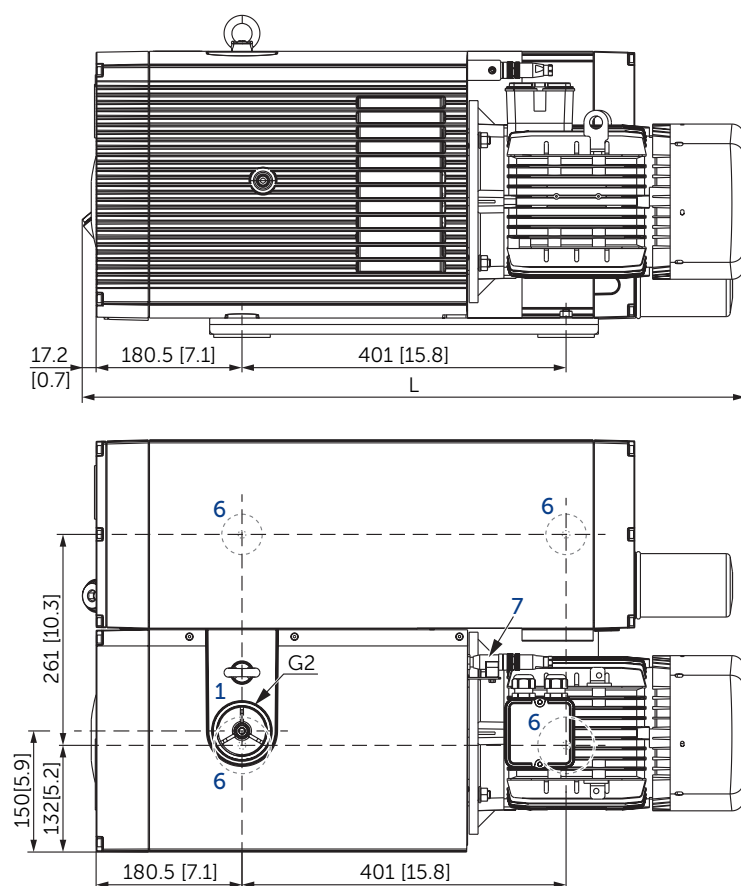
• Type plate data on current consumption and rotation speed of the motors may vary. Tolerance -1.5/+2% in each case.



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 5.166 O2-PACK¹⁾** 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 (G³/₄)
 - 4 Oil sight glass (G1)
 - 5 Screw plug for oil drain (G¹/₂)
 - 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 [inch]

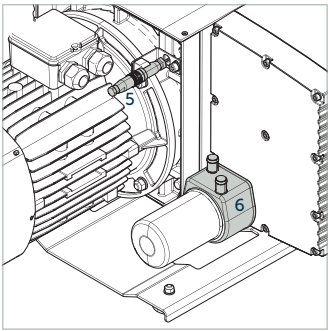
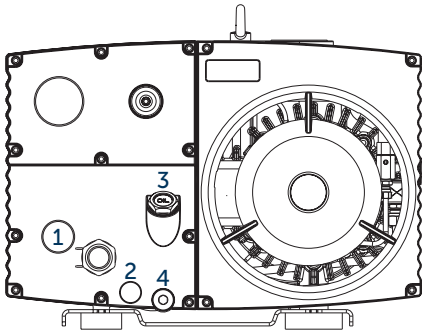
¹⁾ See separate data sheet

- 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⁾ (G½)
- 3 Maintenance indicator¹⁾ (G¾) for oil separating elements
- 4 Ball valve (G½), with locking and hose connector 19 mm [0.75 inch]
- 5 Temperature sensor PT100
- 6 Water cooler U5.200-0-114.2¹⁾



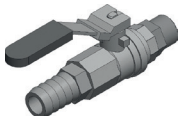
Oil level switch



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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