DATA SHEET

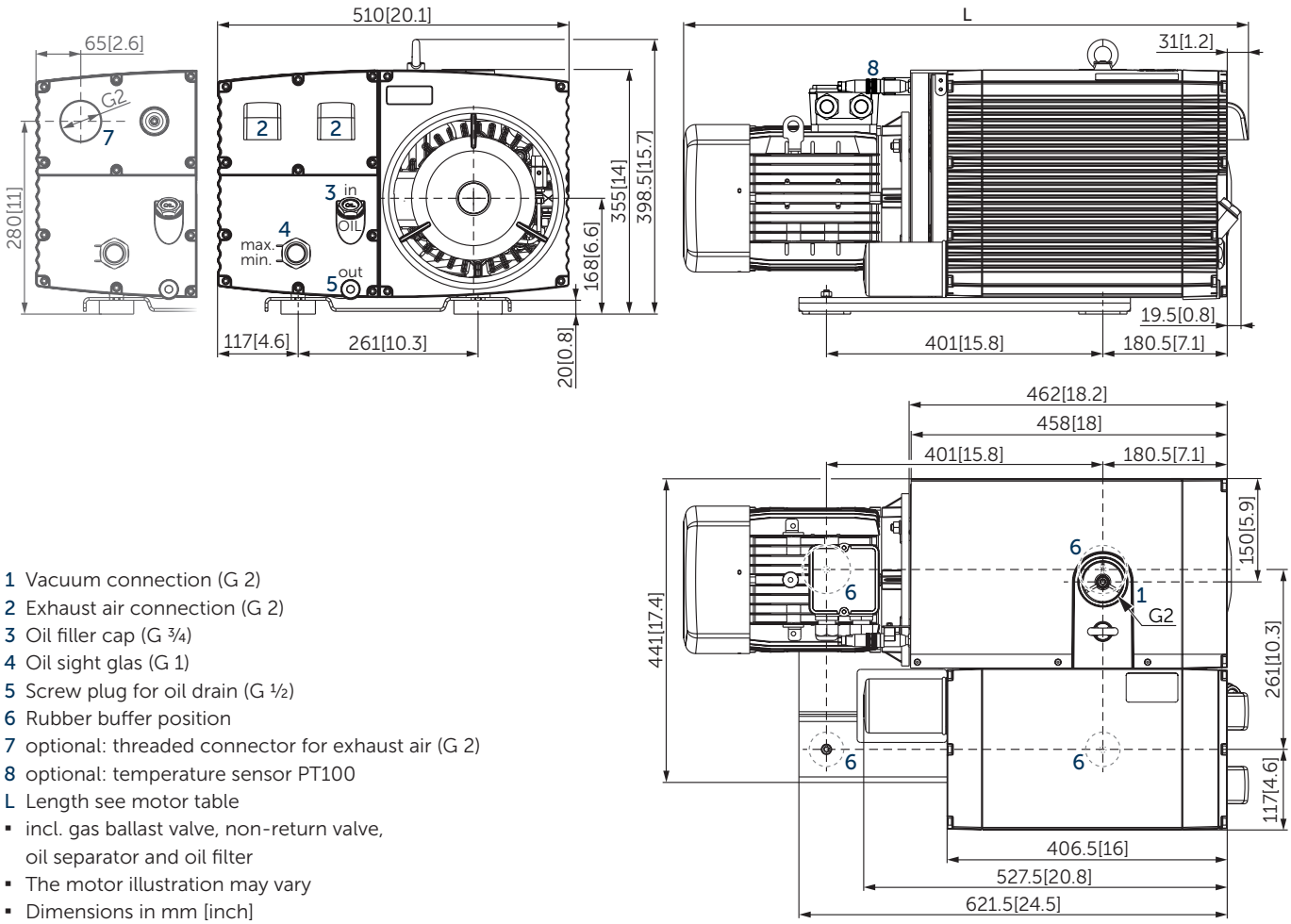
U 5.165
ROTARY VANE–VACUUM PUMPS

oil-lubricated
air-cooled

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BECKER



1 Vacuum connection (G 2)
2 Exhaust air connection (G 2)
3 Oil filler cap (G ¾)
4 Oil sight glas (G 1)
5 Screw plug for oil drain (G ½)
6 Rubber buffer position
7 optional: threaded connector for exhaust air (G 2)
8 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]

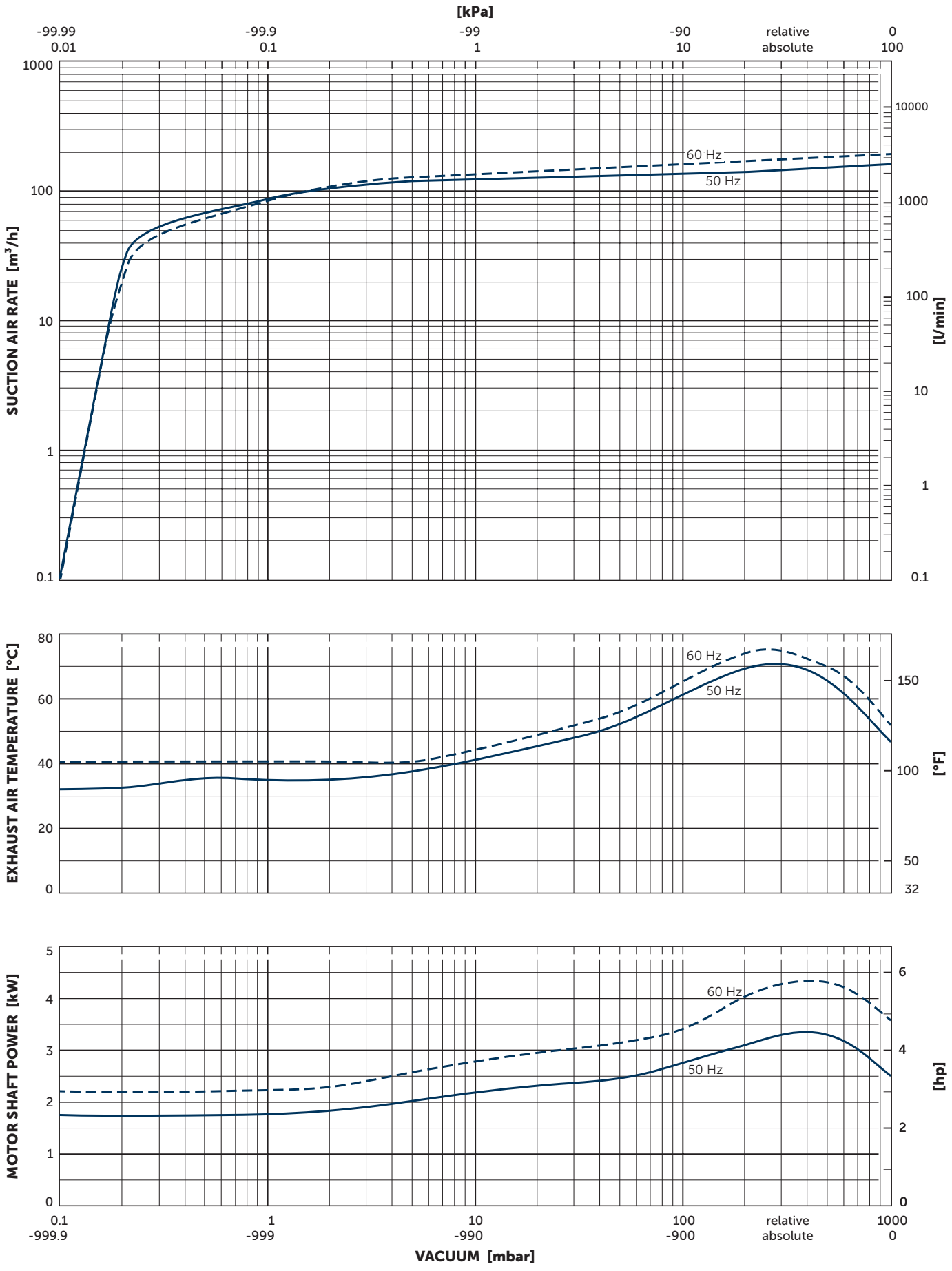
Nominal capacity		Vacuum absolute for continous operation		Motors		Emission sound pressure level [1]		Weight w/o motor	Oil [2]
m^3/h		mbar		kW		dB(A)		kg	l
50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
165	198	<0.1 (0.5 [3])–100	<0.1 (0.5 [3])–100	3.0	3.6	70	72	70	5
165	198	<0.1 (0.5 [3])–400	<0.1 (0.5 [3])–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
[3] 0.5 mbar absolute with opened gas ballast valve

- Gas ballast valve: water vapour tolerance max. 7 mbar; water vapour capacity max. 0.3 l/h (at 85°C operating temperature)
- Current consumption and rotation speed may vary. Tolerance in each case -1.5/+2%

3~ Motors												L
#	50 Hz					60 Hz				Version	Weight	
	kW	V		min^{-1}	A	kW	V		min^{-1}	A		kg	mm [inch]
01	3.0	Δ230/Y400	IE3	1458	11.4/6.57	3.6	Δ265/Y460 Δ230/Y400	IE3 –	1749 1736	11.2/6.48 12.0/6.94	UL (E365362), CSA IP 55, ISO F, bimetal	37	842 [33.2]
02						3.6	YY230/Y460 YY208	IE3 –	1750 1737	12.7/6.34	UL (E365362), CSA 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	IE3	1755	7.28	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	820 [32.3]
06						4.8	YY230/Y460 YY208	IE3 –	1740 1710		UL (E365362), CSA IP 55, ISO F, bimetal	34	820 [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	820 [32.3]
08						4.8	Δ400	IE3	1740	9.8	UL (E365362), CSA IP 55, ISO F, bimetal	34	820 [32.3]

- Current consumption and rotation speed may vary. Tolerance in each case -1.5/+2%

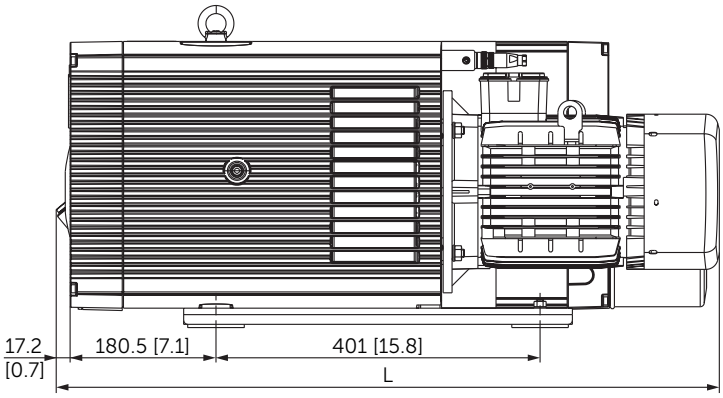


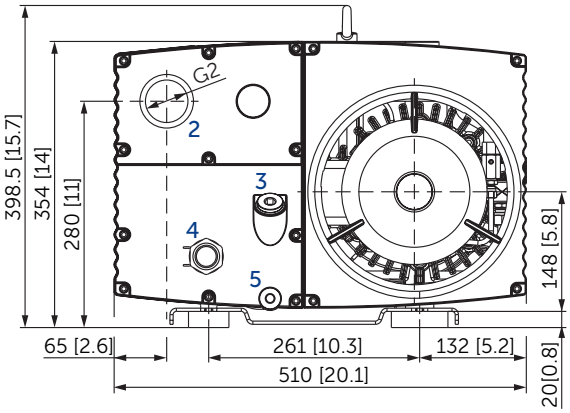
Suction air rate refers to the intake pressure
Reference data (atmosphere): 1000 mbar (100 kPa), 20°C (68°F)
Tolerance: ±10%

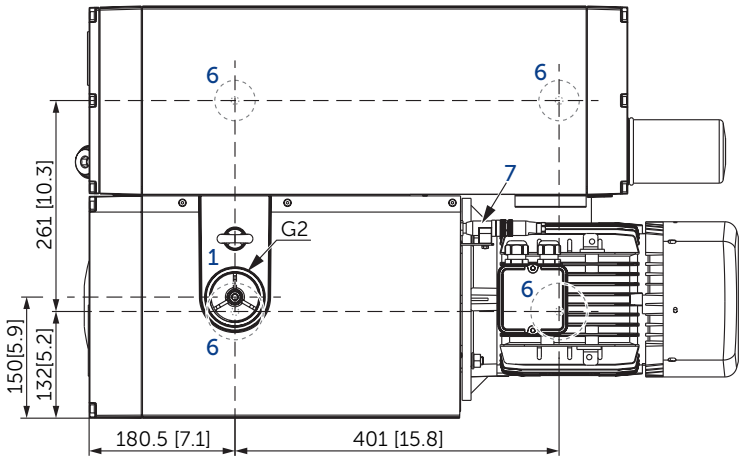
VARIANTS AND ACCESSORIES

U 5.165/0-62XL

- 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







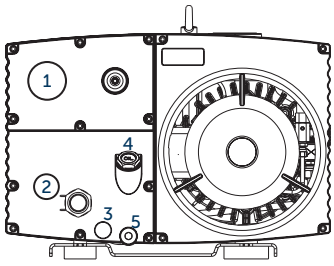
1 Vacuum connection (G 2)
2 Exhaust air connection (G 2)
3 Oil filler cap (G ¾)
4 Oil sight glas (G 1)
5 Screw plug for oil drain (G ½)
6 Rubber buffer position
7 Optional temperature sensor PT100
L Length see motor table
- incl. gas ballast valve, non-return valve, oil separator and oil filter
- The motor illustration may vary
- Dimensions in mm [inch]

OTHER VARIANTS AND ACCESSORIES

- **U 5.165 O2-PACK** [1] for packaging with an overconcentration of oxygen

1 **Threaded connector** for exhaust air (G 2)
2 **Oil level switch** [1] (G 1)
3 **Oil temperature monitor** [1] (G ½)
4 **Maintenance indicator** [1] (G ¾) for oil separating elements
5 **Ball valve** (G ½), with locking and hose connector 19 mm

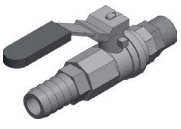
- **Gas ballast valve for increased water vapour tolerance** (3.0 mbar abs.), water vapour tolerance: max. 50 mbar; water vapour capacity: max. 2.0 l/h (at 85°C operating temperature)
- **Temperature sensor PT100**
- **External suction filter**
- **Oil: Becker Lube M100 mineral, S100 synthetic and SL100 food**
- **Water cooler U5.200-0-114.2** [1] with connectors for hoses with an external diameter of 8 mm

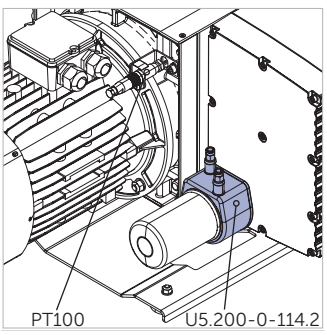



Oil level switch


Oil temperature monitor


Maintenance indicator


Ball valve



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

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