

DATA SHEET

**U 5.71**

# ROTARY VANE- VACUUM PUMPS

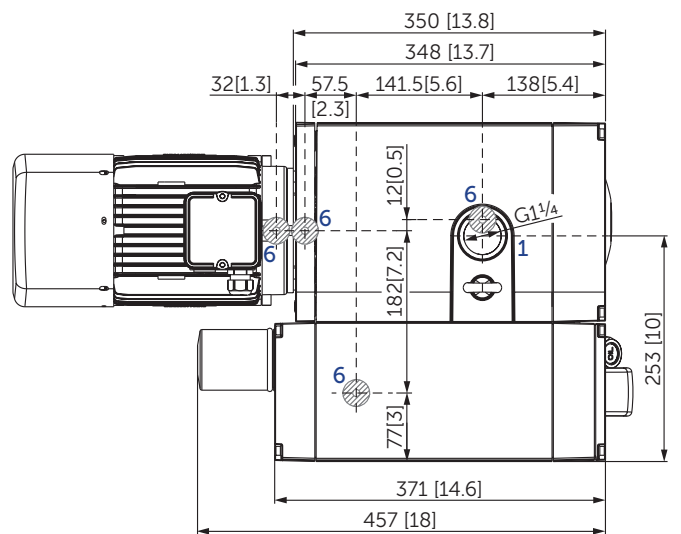
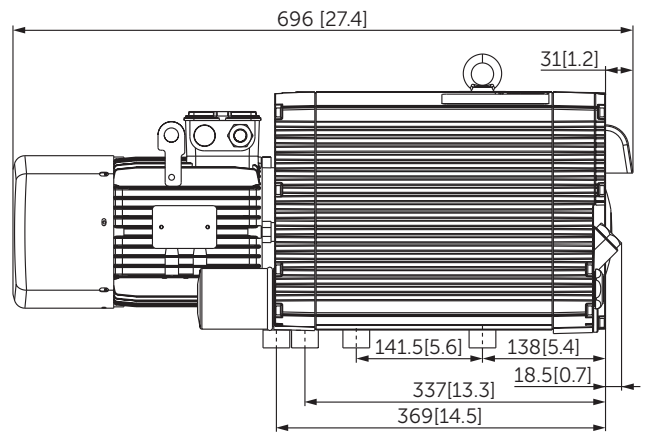
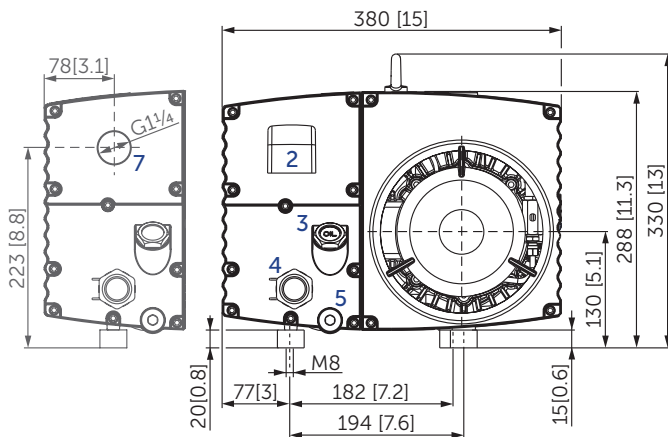
oil-lubricated

air-cooled

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- 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 continous operation		Emission sound pressure level <sup>1)</sup>		Weight with motor	Oil <sup>2)</sup>
m <sup>3</sup> /h		mbar		dB(A)		kg	l
50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
70	84	<0.1–400	<0.1–400	64	67	60.5	2

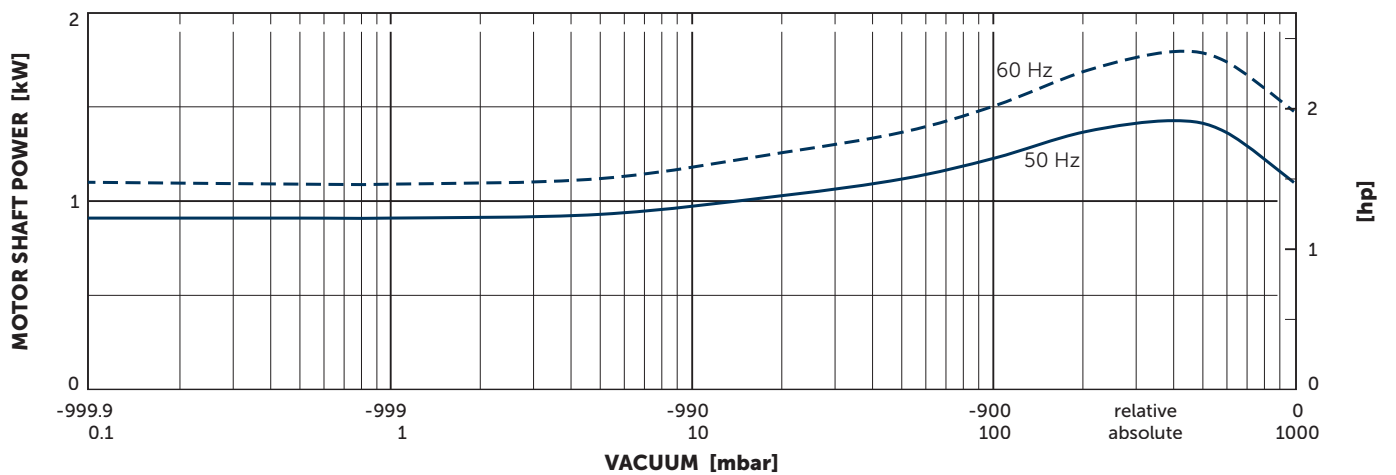
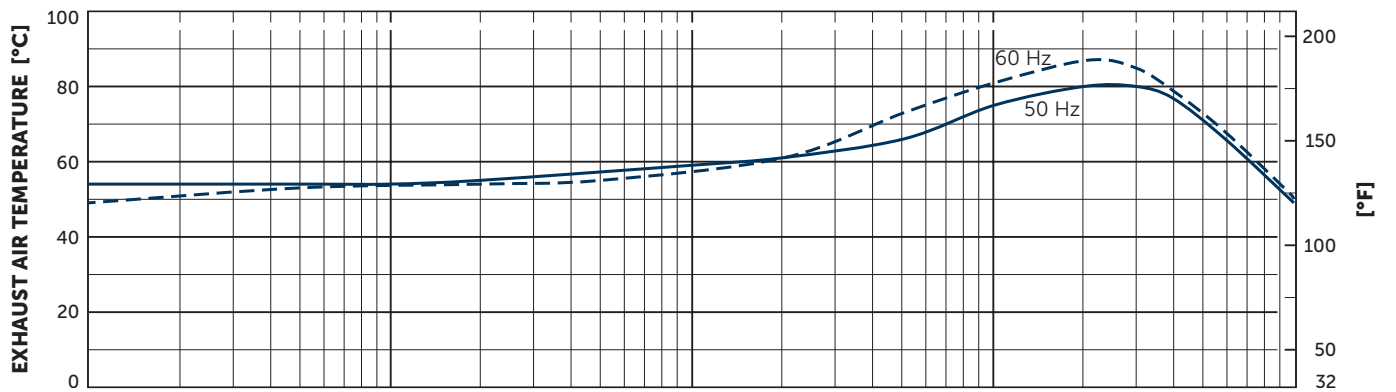
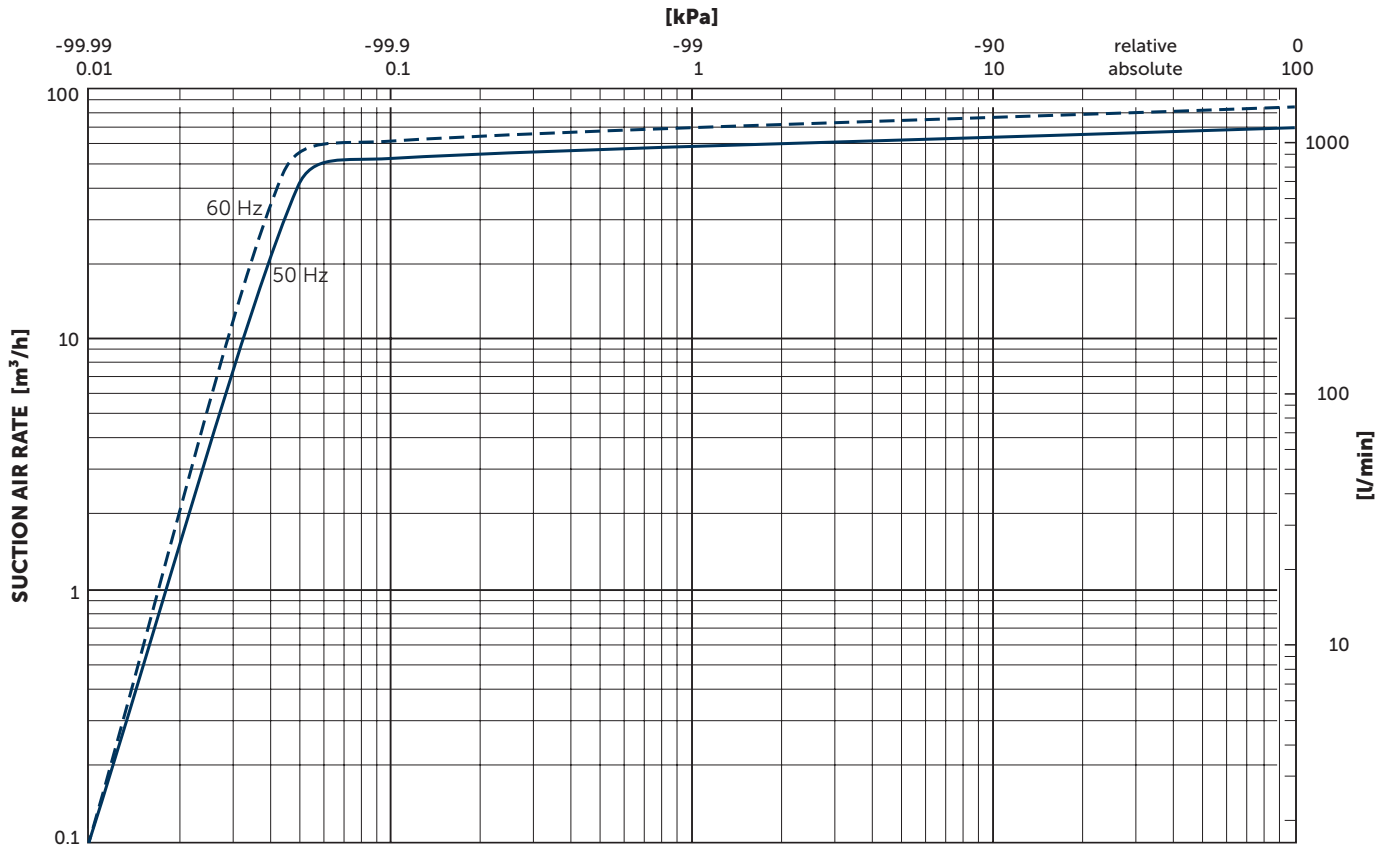
<sup>1)</sup> According to DIN EN ISO 11203, accuracy class of measurement: class 2, extended measurement uncertainty: 3 dB  
1 m [39.4 inch] distance, at medium load, both connection sides piped

<sup>2)</sup> Becker Lube M100 mineral • S100 synthetic • SL100 food

▪ Gas ballast valve: vacuum 1.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 7 mbar; water vapour capacity max. 0.45 l/h (at 85°C operating temperature)

3~ Motors											
#	50 Hz					60 Hz					Version
	kW	V	IE3	min <sup>-1</sup>	A	kW	V	IE3	min <sup>-1</sup>	A	
01	1.5	Δ230/Y400	IE3	1420	6.4/3.7	1.8	Δ265/Y460 Δ230/Y400	IE3	1715 1675	6.4/3.7 6.9/4.0	UL(E365362) • CSA IP55 • ISO F • bimetal
02						1.8	YY230/Y460 YY208	IE3	1730 1705	6.8/3.4 7.0	UL(E365362) • CSA IP55 • ISO F • bimetal
03	1.5	Δ200/Y350		1440	7.4/4.3	1.8	Δ220/Y380-400 Δ200/Y350	IE3	1725 1705	7.3/4.2-4.0 7.6/4.4	UL(E365362) • CSA IP55 • ISO F • bimetal
04						1.8	Δ400/Y690	IE3	1715	4.2/2.4	UL(E365362) • CSA IP55 • ISO F • bimetal
05	1.5	Δ250/Y500	IE3	1430	5.2/3.0	1.8	Δ330/Y575	IE3	1715	5.3/3.1	UL(E365362) • CSA IP55 • ISO F • bimetal

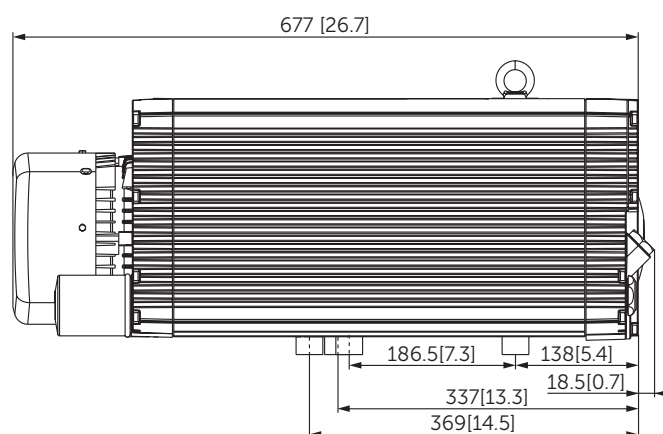
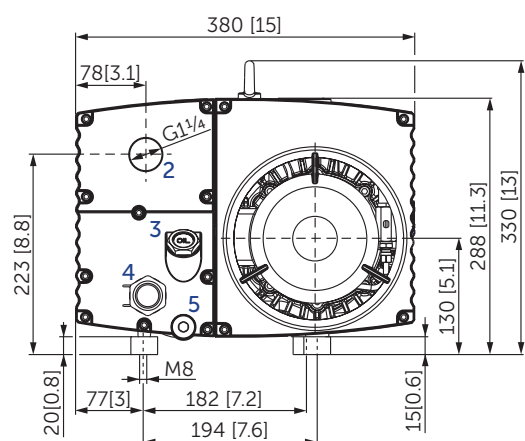
• Type plate data on current consumption and rotation speed of the motors may vary. Tolerance -1.5/+2% in each case.



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

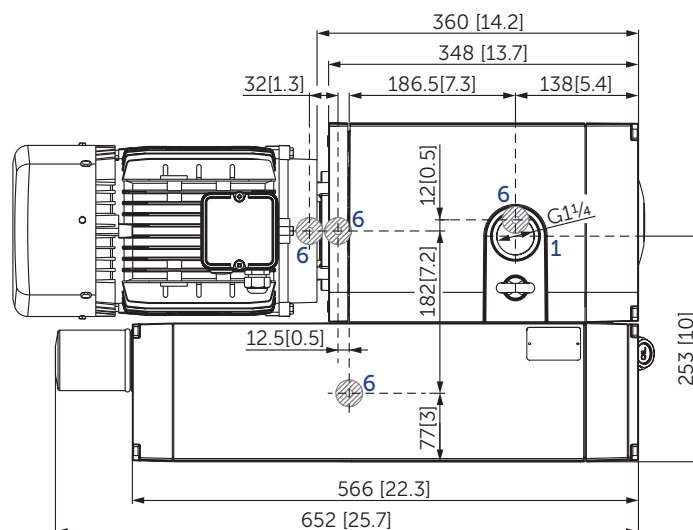
## + VARIANTS AND ACCESSORIES

- **U 5.71 O2-PACK<sup>1)</sup>** for packaging with an overconcentration of oxygen
- **U 5.71/0-62 XL** with enlarged oil tank and high efficient triple stage oil separation (motors and characteristic curves like standard pump)



### U 5.71/0-62 XL

- 1 Vacuum connection (G1<sup>1</sup>/<sub>4</sub>)
- 2 Exhaust air connection (G1<sup>1</sup>/<sub>4</sub>)
- 3 Oil filler cap (G<sup>3</sup>/<sub>4</sub>)
- 4 Oil sight glass (G1)
- 5 Screw plug for oil drain (G<sup>1</sup>/<sub>2</sub>)
- 6 Rubber buffer position
  - incl. gas ballast valve, non-return valve, oil separator and oil filter
  - The motor illustration may vary
  - Dimensions in mm [inch]



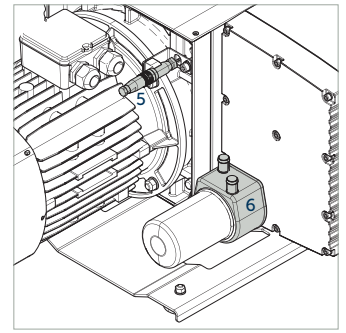
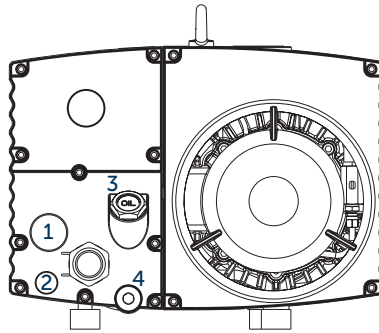
<sup>1)</sup> See separate data sheet

- Combination options on request

**ACCESSORIES**

- External suction filter<sup>1)</sup>
- Oil:
  - Becker Lube M100 mineral
  - S100 synthetic
  - SL100 food packaging applications
  - SM100 food processing applications

- 1 Oil level switch<sup>1)</sup> (G1)
- 2 Oil temperature monitor<sup>1)</sup> (G $\frac{1}{2}$ )
- 3 Maintenance indicator<sup>1)</sup> (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 U5.100-0-114.2<sup>1)</sup>



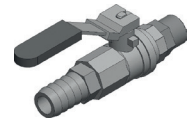
Oil level switch



Oil temperature monitor



Maintenance indicator



Ball valve

U 5.71 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		
<b>U 5.71/0-00</b>	✓			
<b>U 5.71/0-01</b>	vacuum 1.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 7 mbar; water vapour capacity max. 0.45 l/h (at 85°C operating temperature)		✓ (G1 $\frac{1}{4}$ )	
<b>U 5.71/0-02</b>				✓
<b>U 5.71/0-03</b>			✓ (G1 $\frac{1}{4}$ )	✓
<b>U 5.71/0-04</b>	✓			
<b>U 5.71/0-05</b>	vacuum 3.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 36 mbar; water vapour capacity max. 1.1 l/h (at 85°C operating temperature)		✓ (G1 $\frac{1}{4}$ )	
<b>U 5.71/0-06</b>				✓
<b>U 5.71/0-07</b>			✓ (G1 $\frac{1}{4}$ )	✓

<sup>1)</sup> See separate data sheet  
 ▪ Combination options on request



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