

DATA SHEET

U 5.40 (XL K) ROTARY VANE VACUUM PUMPS

oil-lubricated
air-cooled

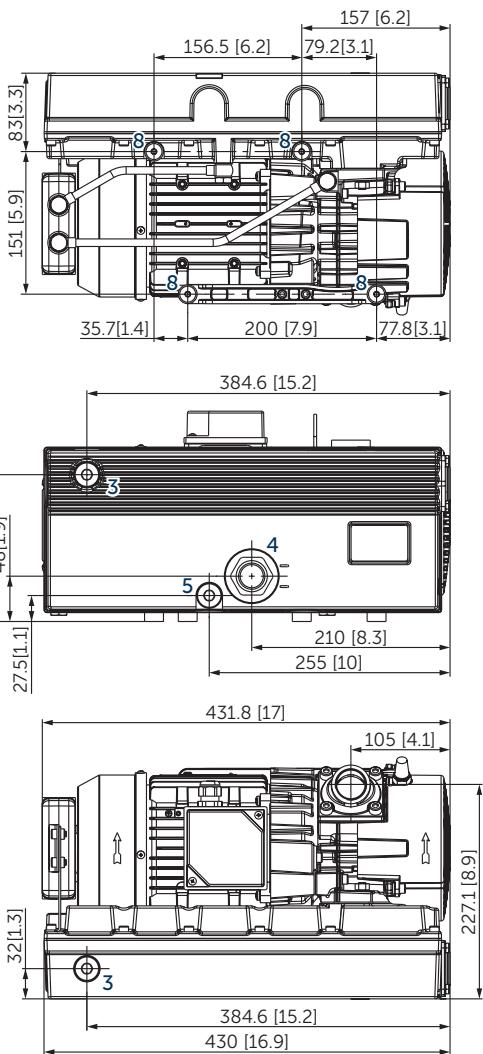
MAKE IT BECKER.



 **BECKER**

U 5.40 XL K WITH 1.0 L TANK AND OIL-AIR COOLER

- 1 Vacuum connection (G1), rotatable in 90° steps
 - 2 Threaded connector for exhaust air (G $\frac{3}{4}$)
 - 3 Oil filler cap
 - 4 Oil sight glas
 - 5 Screw plug for oil drain
 - 6 Oil-air cooler
 - 7 Gas ballast valve
 - 8 Rubber buffer position
- Non-return valve and oil separator are integrated
 ▪ The motor illustration may vary.
 ▪ Dimensions in mm [inch]



1~ motor:

9 Grid connection (Mate-N-Lok)

10 Capacitor connection (Faston), capacitor enclosed separately

	Nominal capacity		Vacuum absolute for continuous operation		Emission sound pressure level ¹⁾		Weight incl. motor kg 3~/1~	Oil (Oil tank) l
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
U 5.40 XL K	40	48	1.0–300	1.0–300	67	71	27.0/28.5	1.0
U 5.40 XL	40	48	1.0–100	1.0–100	67	71	26.3/27.8	1.0
U 5.40	40	48	1.0–100	1.0–100	64	67	25.0/26.5	0.5

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, vacuum connection piped, exhaust side open

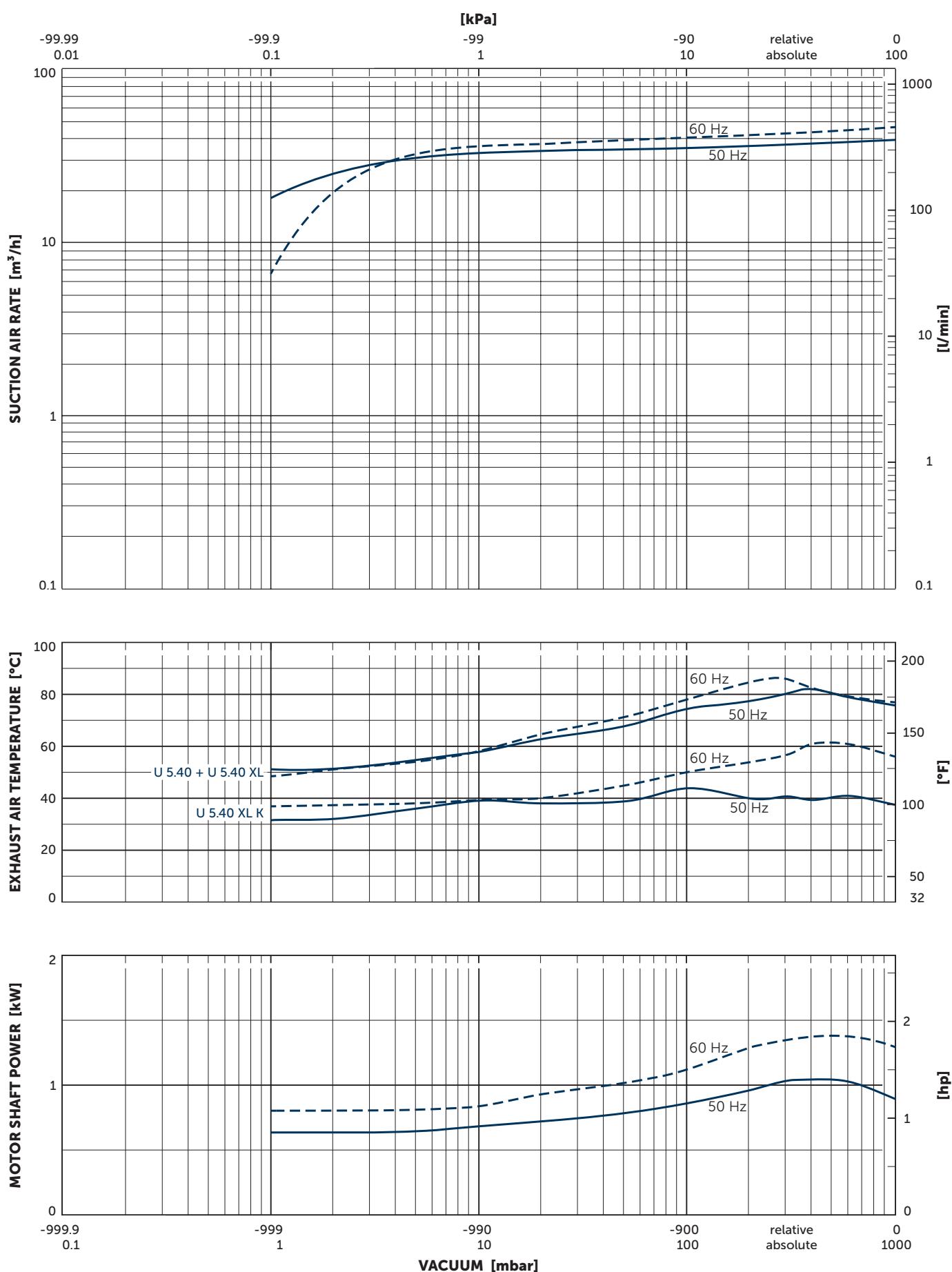
▪ Gas ballast valve: vacuum <2 mbar (with opened gas ballast valve),
 water vapour tolerance max. 12 mbar, water vapour capacity max. 0.35 l/h (at 85°C operating temperature)

3~ Motors										
#	50 Hz			60 Hz					Weight	Version
	kW	V	min ⁻¹	A	kW	V	min ⁻¹	A	kg	
01	1.1	Δ230/Y400	2910	4.8/2.8	1.35	Δ265/Y460	3500	4.7/2.7	15.0	IE3 ¹⁾
						Δ230/Y400	3470	4.7/2.7		IP55 • ISO F thermal protection 150°
02	1.1	Y400	2930	2.7	1.35	Y460	3520	2.7	16.5	UL • CSA • IE3 ¹⁾
						YY208–230	3500–3520	5.5–5.4		IP55 • ISO F thermal protection 150°
03	1.1	Δ200/Y350	2920	5.7/3.3	1.35	Δ220/Y380	3490	5.4/3.1	13.6	IE3 ¹⁾
						Y400	3510	3.1		IP55 • ISO F thermal protection 150°
						Δ200/Y350	3470	5.4/3.1		

1~ Motor										
#	50 Hz			60 Hz					Weight	Version
	kW	V	min ⁻¹	A	kW	V	min ⁻¹	A	kg	
04	1.1	220–240	2780–2820	6.9–6.7	1.35	220–240	3200–3290	8.7–8.0	16.0	IP 55 • ISO F capacitor 35 µF (450V)

¹⁾ Details see type plate

▪ 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

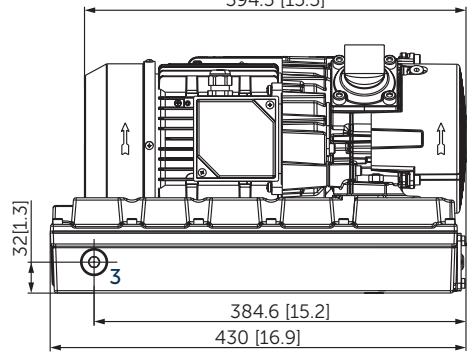
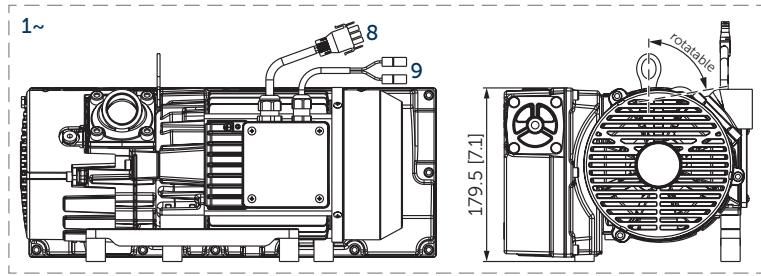
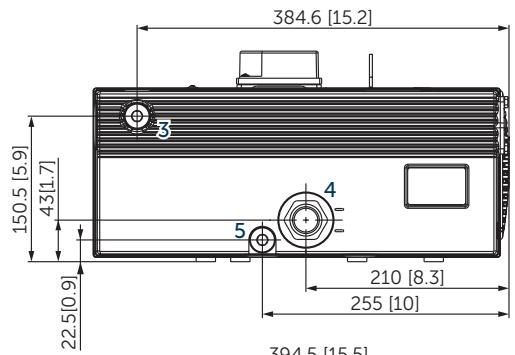
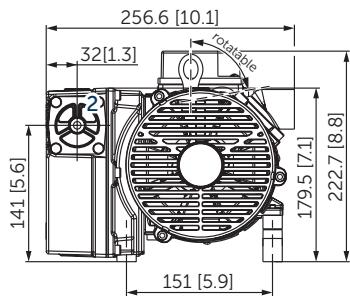
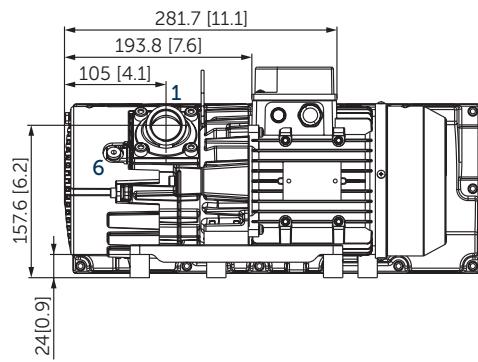
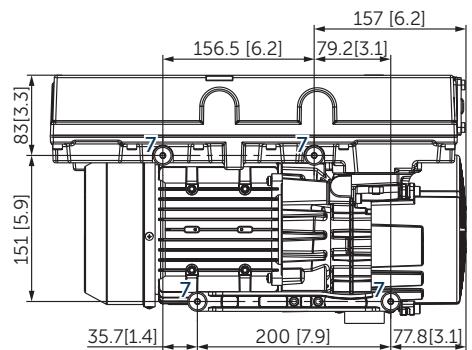
Reference data (atmosphere): 1000 mbar (100 kPa), 20°C (68°F)

Tolerance: ±10%

VARIANTS AND ACCESSORIES

U 5.40 XL WITH 1.0 L TANK

- 1 Vacuum connection (G1), rotatable in 90° steps
- 2 Exhaust air
- 3 Oil filler cap
- 4 Oil sight glas
- 5 Screw plug for oil drain
- 6 Connection for optional gas ballast valve
- 7 Rubber buffer position
- Non-return valve and oil separator are integrated
- The motor illustration may vary.
- Dimensions in mm [inch]

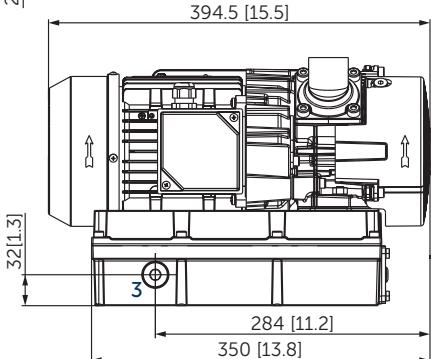
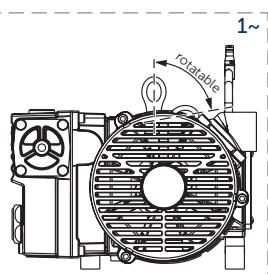
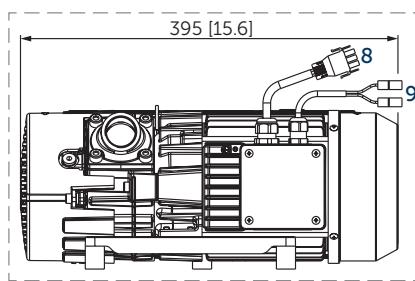
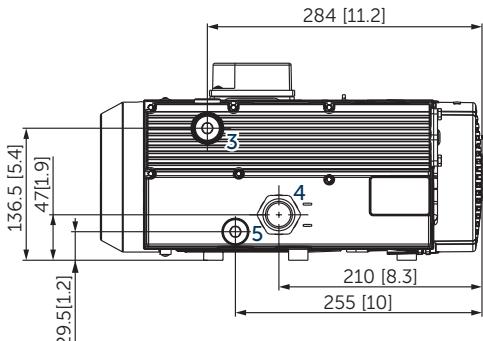
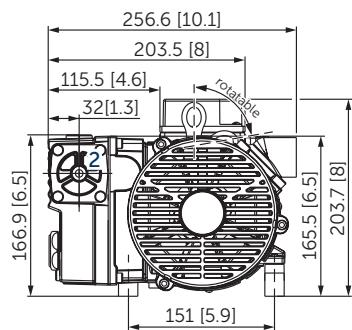
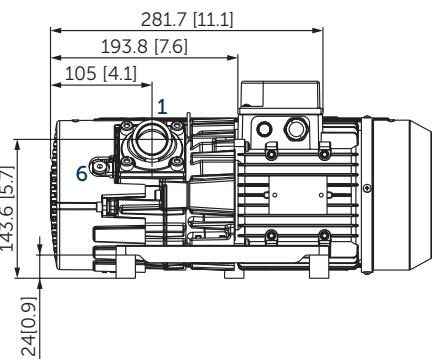
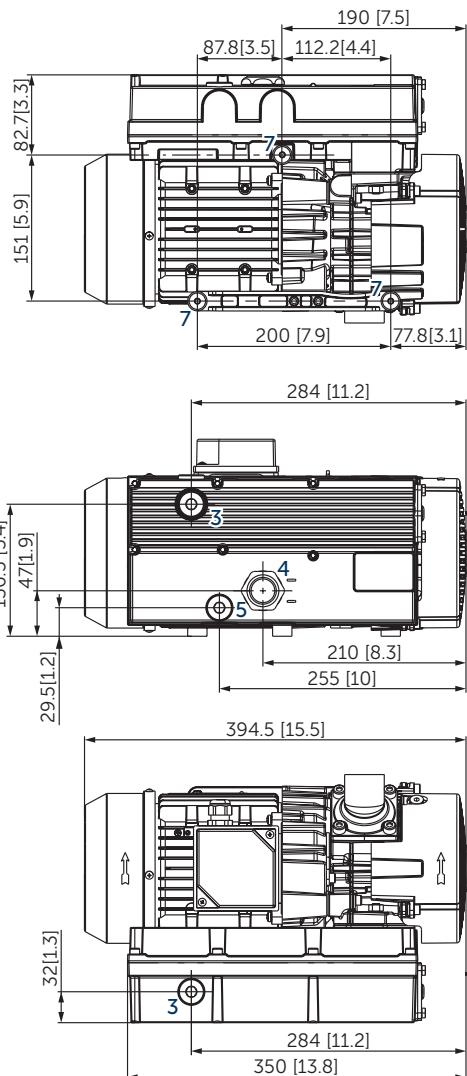


1~ motor:

- 8 Grid connection (Mate-N-Lok)
- 9 Capacitor connection (Faston), capacitor enclosed separately

U 5.40 WITH 0.5 L TANK

- 1 Vacuum connection (G1), rotatable in 90° steps
 - 2 Exhaust air
 - 3 Oil filler cap
 - 4 Oil sight glas
 - 5 Screw plug for oil drain
 - 6 Connection for optional gas ballast valve
 - 7 Rubber buffer position
- Non-return valve and oil separator are integrated
 ▪ The motor illustration may vary.
 ▪ Dimensions in mm [inch]

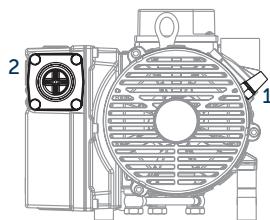


1~ motor:

- 8 Grid connection (Mate-N-Lok)
 9 Capacitor connection (Faston), capacitor enclosed separately

OTHER VARIANTS AND ACCESSORIES

- 1 Gas ballast valve
- 2 Threaded connector for exhaust air (G $\frac{3}{4}$) for U 5.40 and U 5.40 XL
- Capacitor holder (pedestal mounting)



Gas ballast valve		Version 1	Version 2
for ... amounts of moisture		small	higher
Vacuum (with opened gas ballast valve)	[mbar]	<2	<20
Water vapour tolerance	max. [mbar]	12	on request
Water vapour capacity (at 85°C operating temperature)	max. [l/h]	0.35	on request

BECKER LUBE¹⁾

- **M 68** mineral
- **M 32** mineral
- **S 68** synthetic
- **S 32** synthetic

- **SL 68** food (food packaging)
- **SL 32** food (food packaging)

- **SM 68** food (food processing)
- **SM 32** food (food processing)

¹⁾ See operating instructions

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