DATA SHEET

VARIAIR U 5.101 ROTARY VANE–VACUUM PUMPS

oil-lubricated and air-cooled
frequency inverter

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VARIAIR UNIT

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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	Frequency	Emission sound pressure level [1]		Weight	Oil [2]		
m^3/h	mbar	Hz	dB(A)		kg	l	Frequency inverter	A
max.	max.		50 Hz	60 Hz			VAU4/4	max.
140	0.1	40–65	65	68	71.5	2.0	4.0 kW 400–480 V ±10% 50/60 Hz	16

[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

- Gas ballast valve: vacuum 1.0 mbar absolute with opened gas ballast valve; water vapour tolerance max. 7 mbar; water vapour capacity max. 0.9 l/h (at 85°C operating temperature)

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

VARIANTS AND ACCESSORIES

- Optional **GAS BALLAST VALVE** for increased water vapour tolerance (3.0 mbar absolute)
  water vapour tolerance: max. 62 mbar; water vapour capacity: max. 2.4 l/h (at 85°C operating temperature)
- **THREADED CONNECTOR** for exhaust air (G1¼)

ACCESSORIES

- External **suction filter** [1)]
- **Oil:** Becker Lube M100 mineral, S100 synthetic and SL100 food

1 **Oil level switch** [1)] (G1)
2 **Oil temperature monitor** [1)] (G½)
3 **Maintenance indicator** [1)] (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 U5.100-0-114.2** [1)] with connectors for hoses with an external diameter of 8 mm (0.32 inch)

Oil level switch

Oil temperature monitor

Maintenance indicator

Ball valve

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

Right of modification reserved 2021-01-28

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