VAU4/4, VAU7.5/3 & VAU11-22/3

VARIAIR FREQUENCY INVERTER

MAKE IT BECKER.



VARIAIR FREQUENCY INVERTER BY BECKER

Becker's VARIAIR frequency inverters considerably increase the performance characteristics of vacuum pumps and compressors, adapting them precisely to customer requirements. Energy consumption is optimised and constant pressure ensured, even with varying or heavily fluctuating air demand. Noise emissions, such as unneeded suction or blowing noises when expelling surplus air, have been eliminated. The pumps' soft start reduces wear on mechanical components and increases service life. The variable performance range of VARIAIR vacuum pumps and compressors helps to reduce the need for a broad model range.

ADVANTAGES

- Airflow speed adjustable exactly according to needs
- Significant increase to energy efficiency, especially with varying operating points
- Reduced wear on device and network due to soft start of pumps with full torque
- Up to 100 % higher flow rate due to 100 Hz operation in a 50 Hz network and up to 15 % higher flow rate than other 87 Hz frequency conversion solutions due to 100 Hz operation for side channel blowers
- Up to 20 % higher flow rate due to 60 Hz operation in a 50 Hz network for rotary vane pumps
- Constant pressure for the complete range of applications via
- PID control, also via sensorless internal regulation for side channel blowers
- Device protection due to operation based on individual characteristics diagrams
- Internal PLC allows for customer-specific software configuration
- Master-slave operation possible without higher-level control
- Optional support for established fieldbus systems (CANopen and EtherCAT)
- Simple error analysis with flash codes and acknowledge button
- VARIAIR provides machine manufacturers with optimum air supply independent of power supply and frequency (200/400/480 V 50/60 Hz)
- The higher level VARIAIR Controller+, which scales to fit your specifications, merges the individual pumps (VARIAIR units) into a user-friendly overall system

VARIAIR

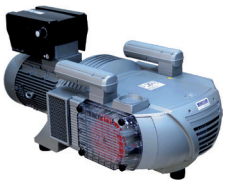
BECKER

SPECIFICATIONS VAU4/4, VAU7.5/3 & VAU11-22/3

		VAU4/4	VAU7.5/3	VAU11-22/3
Typical motor performance (4-pole asynchronous motor)	[kW]	4.0	7.5	11.0 15.0 18.5 22.0
Voltage 3~	[V]	400 (-15 %) ... 480 (+10 %)	400 (-15%) ... 480 (+10 %)	400 (-15%) ... 480 (+10 %)
Mains frequency	[Hz]	47 – 63	47 – 63	47 – 63
Dimensions (L x B x H)	[mm]	270 x 189 x 140	307 x 223 x 181	414 x 294 x 232
Weight incl. adapter plate	[kg]	5.0	8.7	21.0
Protection class		IP 65	IP 65	IP 55
Protective features		over- and undervoltage, I^2t restriction, short-circuit, motor temperature, frequency inverter temperature, stall prevention (current limit) and blocking protection		
Optional accessoires		hand-held operating unit, wall mount, vacuum- and/or pressure sensors		
Order no.		79630271115 Standard 79630274115 incl. CANopen 79630276115 incl. EtherCAT	79630251115 Standard 79630254115 incl. CANopen 79630256115 incl. EtherCAT	79630261115 Standard 79630264115 incl. CANopen 79630266115 incl. EtherCAT

THE BECKER SOLUTION

As a leader in the field of suction and blast air we offer complete solutions driven by your individual needs.



Oil-free rotary vane pumps



Oil-lubricated rotary vane pumps



Screw pumps



Claw pumps



Side channel blowers



Radial blowers