

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

VARIAIR FREQUENCY INVERTER

MAKE IT BECKER.



VARIAIR FREQUENCY INVERTER BY BECKER

Becker's VARI Air 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 VARI Air 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
- The combined IE3 motor and VARI Air frequency inverter technologies meets IE3 requirements
- For side channel blowers
 - Up to 100 % higher flow rate due to 100 Hz operation in a 50 Hz network
 - Up to 15 % higher flow rate than other 87 Hz frequency conversion solutions due to 100 Hz operation
- For rotary vane pumps
 - Up to 20 % higher flow rate due to 60 Hz operation in a 50 Hz network
- 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 field-bus systems (CANopen, Profibus and EtherCAT)
 - Simple error analysis with flash codes and acknowledge button
 - VARI Air provides machine manufacturers with optimum air supply independent of power supply and frequency (200/400/480 V 50/60 Hz)
 - The higher level VARI Air Controller+, which scales to fit your specifications, merges the individual pumps (VARI Air units) into a user-friendly overall system

VARIAIR

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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 ² t restriction, short-circuit, motor temperature, frequency inverter temperature, stall prevention (current limit) and blocking protection						
Optional accessories	hand-held operating unit, wall mount, vacuum- and/or pressure sensors						
Order no.		79630271115 Standard 79630274115 incl. CANopen 79630275115 incl. Profibus 79630276115 incl. EtherCAT		79630251115 Standard 79630254115 incl. CANopen 79630255115 incl. Profibus 79630256115 incl. EtherCAT		79630261115 Standard 79630264115 incl. CANopen 79630265115 incl. Profibus 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