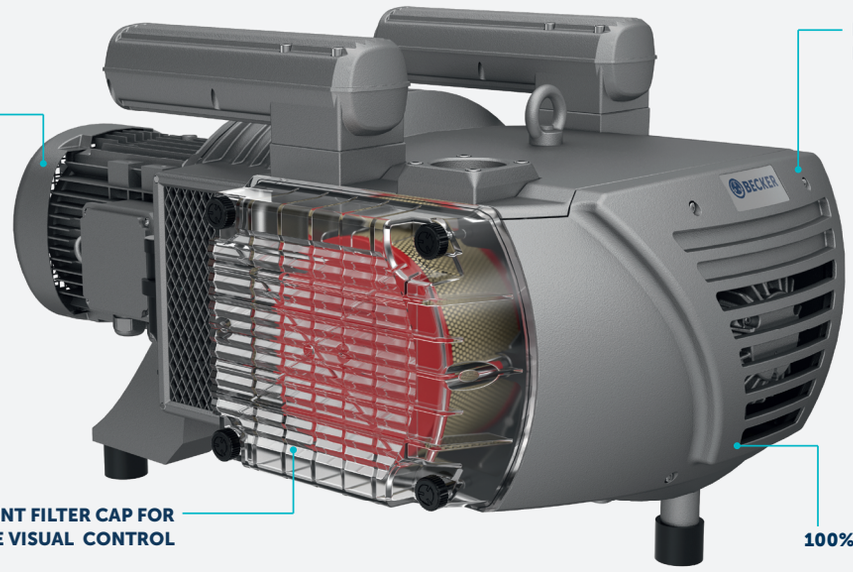
VTLF/DTLF/DVTLF 2.

ROTARY VANE PUMPS

MAKE IT BECKER.



DRY RUNNING ROTARY VANE PUMPS FROM BECKER

The TLF series from Becker is a series of directly driven oil-free vacuum pumps, compressors and combined units. Due to the single shaft and robust design, the TLF sets the standard in many industrial applications.

EFFICIENCY

- Highly efficient vacuum- and pressure-production
- low power consumption
- Highly efficient IE3-motors
- UL/CSA approved motors
- Variable speed control (optional) for optimization to the desired operating point without reduction of throttle losses

CUSTOMIZATION

- Wide range of motors with focus on global voltage networks
- Sound enclosure solutions (also for existing equipment)
- In addition to the extensive modular system of accessories, customer specific product solutions, even for small quantities, are part of our competence

ADVANTAGES

- Made in Germany
- Frame sizes from 174 to 600 m^3/h
- 100% oil-free
- Robust und extremly reliable through single shaft direct motor drive
- Versions for vacuum (VTLF), pressure (DTLF) and combined operation (DVTLF) available
- Inclusive integrated accessories:
  - Safety valve
  - Blow-off valve (VTLF)
  - Filter with transparent filtercup for simple visual control
  - Check valve (optional)
  - Dust collector (optional)
- Fast and easy service on site

BECKER

SPECIFICATIONS VTLF/DTLF/DVTLF 2.

Vacuum	VTLF 2.200		VTLF 2.250		VTLF 2.360		VTLF 2.400		VTLF 2.500	
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
m^3/h	178	218	244	286	351	402	390	460	495	570
mbar absolute	200	200	200	200	250	250	200	200	250	250

Pressure	DTLF 2.200		DTLF 2.250		DTLF 2.360	DTLF 2.400		DTLF 2.500	
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	50 Hz	60 Hz	50 Hz	60 Hz
m^3/h	174	216	247	294	360	365	440	515	600
bar relative	+1.8	+1.8	+1.8	+1.8	+0.9	+1.8	+1.8	+1.8	+1.8

Combined	DVTLF 2.250		DVTLF 2.250		DVTLF 2.400		DVTLF 2.500	
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
m^3/h	242	287	246	288	380	455	500	575
bar relative	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5

SERIES X: BECKER-INNOVATION WITH TOP GUARANTEE

The dry running rotary vane pumps are equipped with specially developed vanes and are characterized by highest resistance to abrasion and even longer service life.

Becker guarantees a valve service life of 20,000 operating hours or maximal 3 years for these devices.

Available as:
- VXLF 2.200, 2.250, 2.400 and 2.500
- DXLF 2.200, 2.250, 2.400 and 2.500

VARIAIR UNIT: THE BECKER FREQUENCY INVERTER TECHNOLOGY

The integrated frequency converter increases the performance data of the pumps considerably and adapts them exactly to the customer's requirements. The energy requirement is optimised and a constant pressure is guaranteed even with varying or strongly variable consumption. Unnecessary suction or blow-off noise and additional noise emission for unneeded air is eliminated. The integrated soft start reduces the load on the mechanical components and extends the service life. The variable power range minimizes the variety of types and thus also offers logistical advantages.

ADVANTAGES OF THE SERIES X

- Fast, clean and quiet
- 100% oil-free
- Low abrasion and reliable
- Energy saving

ADVANTAGES OF THE VARIAIR UNIT

- Reduced evacuation times through
- 60 Hz Operation in 50 Hz power supply
- Pressure constant maintenance in the entire range of applications by PID control
- Reduction of energy costs with extended device service life at the same time
- Device protection through individual map operation
- Internal SPS enables customer specific software adaptation
- Optional support of established fieldbus systems (CANopen, Profibus and EtherCAT)

THE BECKER SOLUTIONS

As an internationally leading manufacturer in the field of vacuum and compressed air technology, we offer our customers comprehensive solutions for their individual requirements. The dry running rotary vane vacuum pumps from Becker are the ideal solutions for
- Woodworking industry: fixing of workpieces and their handling
- Print- and paperindustry: suction, pressure and combined pressure/vacuum processes
- Electronic industry: handling processes
- Medical sector: central vacuum systems in hospitals
- Pneumatic conveying: transport of plastic granulates, powders etc.
- Food industry: thermoforming processes and dry packaging applications
- Central air supply systems: Vacuum systems as a replacement for decentralised individual machine supplies