



Dry Vacuum Pumps

Keep your Food
Packaging and Processing
lines running at all times!



Pioneering Vacuum Technology

Dry Vacuum

Vacuum pumps are essential for most production processes in the Food Packaging and Processing Industry.

The Leybold dry screw pumps provide high pumping speeds to the lowest vacuum pressure levels required in food packaging and processing applications.

The pumps provide continuous production output in your stressful environment minimizing the risk of food contamination thanks to modern oil-free technology.

If you already own a mechanical booster, consider that dry pumps have the same, low level of requirement in terms of maintenance and service. Going dry, there will be no big oil volume to drain, and no exhaust filter cartridges to exchange as with an oil sealed rotary vane pump.

Dry Vacuum Pumps

Improved Food Production Safety

Dry Technology Advantages

- Oil free compression design
- Robust, reliable and repeatable performance
- Low cost of ownership
- Reduced maintenance intervention and consumable costs
- Absolutely clean technology preserving the food product from oil contaminations
- Superior water vapor handling
- Very low noise level

Dry Technology Applications

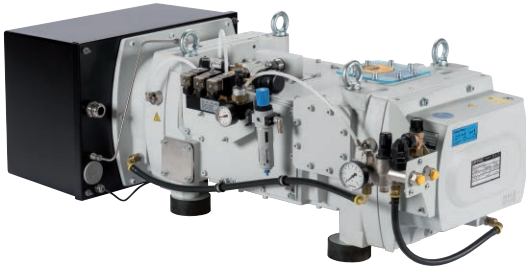
- **Food Packaging**
 - Chamber machines
 - Thermoforming
 - Tray sealing
 - Carousel packaging
 - Rollstock packaging
 - Modified atmosphere packaging
 - **Food Processing**
 - Vacuum conditioning
 - Vacuum cooling
 - Freeze drying
 - Tumbling
 - Mixing
 - VMD
- (vacuum microwave drying)



for Packaging & Processing

SCREWLINE

for demanding food processing applications



DRYVAC

for packaging and standard processing applications

DRYVAC dry pumps are rugged, reliable and durable, ready to fulfill the stringent requirements of chamber packaging or thermoforming.

All versions from the DRYVAC family are water cooled, very compact and offer excellent flexibility of installation, thanks to multiple orientation inlet flanges.

The extremely low noise level significantly improves the working conditions in the production area.

DRYVAC Benefits

- Highly compact design
- Flexible inlet arrangement
- Wash down compatible when fitted with available IP66 control box
- Highest energy efficiency with available stand-by capability
- Oxygen version available for MAP packaging of red meat



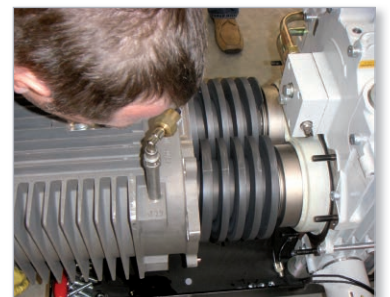
SCREWLINE dry screw vacuum pumps meet the special demands of harsh food processing applications.

The innovative, modular design of the SCREWLINE allows these pumps to be used where reliable, and low maintenance vacuum technology is demanded.

The cantilevered design allows easy access to the rotors for in-situ cleanability in short time.

SCREWLINE Benefits

- Very rugged, for demanding processes such as tumbling
- Aluminium chamber construction
- Air-cooling
- Easy to disassemble pump chamber for on site cleaning by end user
- Monitoring system



SCREWLINE



Watch the simple SCREWLINE user cleanability demonstration on YouTube^{DE}:
<https://www.youtube.com/watch?v=Ve9A4sjQr0k>

Dry Vacuum Screw Pumps

Technical Data

Dry Screw Pumps Technical data at 50Hz	Units	DRYVAC		SCREWLINE	
		DV450	DV650	SP250	SP630
Effective pumping speed	m ³ x h ⁻¹	450	650	270	630
Ultimate total pressure	mbar	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01
Permissible ambient temperature	°C	+10 to +40	+5 to +50°C	+10 to +40	+10 to +40
Water vapour tolerance (with gas ballast)	mbar	60	60	60	40
Water vapour capacity (with gas ballast)	kg x h ⁻¹	15	25	10	14
Cooling		Water	Water	Air	Air
Nominal power	kW	11	15	7.5	15
Type of protection	IP	54 / 55	54 / 55	55	55
Lubricant filling	l	1.2	1.2	7	13
Intake flange	DN	100 ISO-K	100 ISO-K	63 ISO-K	100 ISO-K
Exhaust flange	DN	63 ISO-K	63 ISO-K	63 ISO-K	100 ISO-K
Weight, approx.	kg	620	580	450	530
Dimensions (W x H x D)	mm	1280 x 420 x 570	1280 x 420 x 570	1350 x 880 x 530	1630 x 880 x 660
Noise level	dB (A)	65	65	67	73

Market experience

Treating, conserving and packaging food is a demanding application considering that these processes protect us daily against exposure to air, bacteria, mold, decay and dryness, but vacuum technology can do so much more.

In modern industrial manufacturing, vacuum can help to reduce cost of ownership, facilitate working conditions and improve on logistics.

Leybold offers a broad range of advanced vacuum solutions for use in food processing and packaging applications, backed up by the experience of more than 165 years in vacuum technology.

The product range of Leybold comprises fore vacuum and high vacuum pumps, vacuum systems, vacuum gauges, leak detecting instruments, flanges, fittings and valves, as well as consulting and engineering of complete vacuum solutions for specified customer applications.

This full range of vacuum technology is supported by one of the largest worldwide sales and after sales network.

Sales and Service

- Worldwide service network
- On-site support by our field service team
- 24 hours / 7 days a week
- Exchange program with back-up pool management
- Customized service contracts
- Remote service
- Extended warranty program

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