

Dry Vacuum Pumps LEYVAC

A jump ahead to high performance pumping



The new LEYVAC

Excellent performance

Our new LEYVAC dry vacuum pumps provide power combined with high performance!

This new product range for the 100 m³/h market has been designed to meet the special needs of industrial processes and coating applications.

LEYVAC pumps and system combinations are rugged, reliable and durable, ready to cope with harsh process requirements. The LEYVAC product line comprises the models LEYVAC LV 80, LV 80C, LEYVAC LV 140 and LV 140C.

Benefits to the customer

■ Dry pump technology

No oil contact to process gases
Only periodic gear oil change

■ High pumping speed

for air and H₂

■ Hermetically tight

No shaft seals
No oil leakage
Safe pumping of toxic gases

■ High reliability

Long service intervals of up to 5 years
High uptime with limited maintenance
Robust and durable design

■ One motor solution

Multi-voltage, dual frequency motor operable at 200V - 440V and 50/60Hz

■ Easy and modular

Direct coupling of roots booster pumps without frames for models WS/WSU251, WS/WSU501 and WH700/702 provides enhanced pumping performance

Your new option in dry pump technology

+ Reliability



Application examples

■ Process industry

- Industrial furnaces
- Degassing
- Charging
- Casting
- Drying processes in general
- Freeze drying
- Packaging

■ Coating

- CVD coating
- Plasma coating
- Glass coating
- Web coating

■ Solar

- CVD/PECVD
- Crystal pulling and casting

■ Support functions

- Regeneration of cryo pumps
- Forevacuum pumps



A jump ahead

Cost effective dry technology

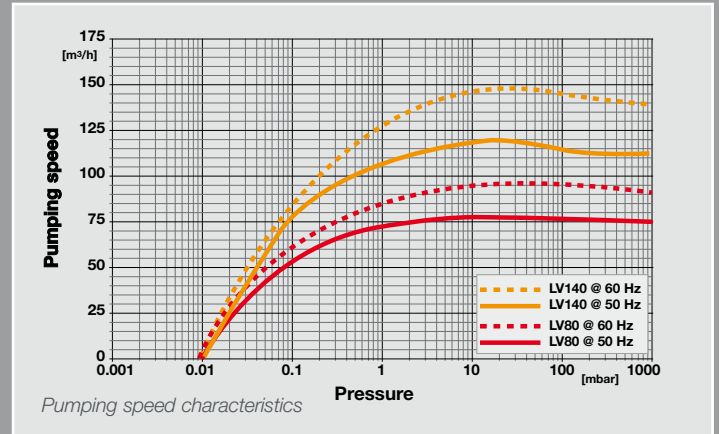


- when your process requires maximized ...

+ System uptime



+ Process throughput



Features at a glance

LEYVAC dry vacuum pumps provide **optimized**

■ System uptime

- Robust design based on the proven RUVAC and DRYVAC technology
- Most effective cooling system
- Thermal switch protection
- Tolerant to pressure shocks
- Long intervals for bearing exchange

■ Process safety

- Designed for harsh applications

■ Excellent performance data

- High pumping speed
- from atmosphere to process pressure
- for light gases

■ Low noise and low heat emission

■ Price-to-performance ratio

- Low investment costs
- small, price optimized pumping systems

Technical Data

LEYVAC LV product range

LEYVAC models
C versions with housing



Technical Data		LV 80	LV 140	LV 80 C	LV 140 C
Nominal pumping speed without gasballast at 50/60 Hz	m ³ /h	80 / 96	125 / 145	80 / 96	125 / 145
Ultimate pressure with seal and rotor purge	mbar	1 x 10 ⁻²	1 x 10 ⁻²	1 x 10 ⁻²	1 x 10 ⁻²
Power consumption at ultimate pressure at 50/60 Hz	kW	2.9 / 3.2	3.9 / 4.3	2.9 / 3.2	3.9 / 4.3
Weight, approx.	kg	280	300	285	305
Noise level *	dB(A)	< 65	< 65	< 65	< 65
Intake connection	DN	63 ISO-K	63 ISO-K	63 ISO-K	63 ISO-K
Exhaust side connection	DN	40 KF	40 KF	40 KF	40 KF
Mains voltage (+/- 10%)	V	200 - 440	200 - 440	200 - 440	200 - 440
Nominal power at 50/60 Hz	kW	3.75	5.5	3.75	5.5
Nominal current at 50/60 Hz	A	6	8	6	8
Cooling		water	water	water	water
Max. cooling water temperature	°C	5 - 35	5 - 35	5 - 35	5 - 35
Cooling water throughput, min.	l/min	3	3	3	3
Water vapor tolerance with Gas Ballast 80 slm 50/60 Hz	mbar	20/30	125/160	20/30	125/160
Water vapor capacity with Gas Ballast 80 slm 50/60 Hz	kg/h	1,24/2,3	11,5/18,0	1,24/2,3	11,5/18,0
Permissible ambient temperature	°C	5 - 45	5 - 45	5 - 45	5 - 45
Protection class EN 60529	IP	54	54	54	54
Dimensions (W x H x D)	mm	814 x 375 x 550	895 x 400 x 567	814 x 375 x 550	895 x 400 x 567
* at ultimate pressure and with rigid exhaust line DIN EN ISO 2151					
Ordering Information		LV 80	LV 140	LV 80 C	LV 140 C
LEYVAC dry vacuum pump, with lubricant LEYBONOL LVO 410, complete with base plate, castors, temperature switch, shaft seal, rotor purge with housing		115080V15*	115140V15	- 115080V30	- 115140V30
Accessories					
Check valve ball type				115005A01	
Check valve spring loaded				115005A02	
Roots pump adapter WS/U 251/501, WH 700/702 models				115005A03	
Exhaust pressure sensor				115005A10	
Gas ballast kit, 24 V				115005A13	
Standard silencer				115005A20	
Drainable elbow for silencer				115005A26	

* with gas ballast

leybold

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