



## LEYVAC Dry vacuum pump

**LEYVAC dry vacuum pumps provide the performance you need!  
This product range for the 145 m<sup>3</sup>/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 140 and their C versions.

### **Benefits to the customer:**

- **Dry pump technology**
  - No oil contact to process gases
  - Only occasional gear oil change
- **High pumping speed**
  - for air and H<sub>2</sub> already at high pressures
- **Hermetically tight**
  - No shaft seals to ambient
  - 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 - 460V and 50/60Hz
- **Easy and modular**
  - Direct coupling of roots booster pumps without frames for models WH 700 and WA(U)/WS(U) 251-1001 provides enhanced pumping performance

### **Application examples:**

- **Process industry**
  - Industrial furnaces
  - Degassing
  - Charging
  - Casting
  - Drying processes in general
  - Freeze drying
  - Packaging
- **Coating**
  - PVD/CVD coating
  - Wear resistant coatings
  - Optical coating
  - Web coating
- **Solar**
  - CVD/PECVD
  - Crystal pulling and casting
- **Support functions**
  - Regeneration of cryo pumps
  - Backing pumps for Turbomolecular pumps

**LEYVAC series** Excellent performance

Technical data

		LEYVAC			
		LV 80	LV 80 C	LV 140	LV 140 C
Nominal pumping speed without gas ballast at 50/60 Hz	m <sup>3</sup> /h	80 / 96		125 / 145	
Ultimate pressure with seal and rotor purge	mbar	1 x 10 <sup>-2</sup>			
Power consumption at ultimate pressure at 50/60 Hz	kW	2.9 / 3.2		3.9 / 4.3	
Weight, approx.	kg	280	300		320
Noise level*	dB(A)	< 65	< 65	< 65	< 65
Weight, approx.	kg	280	300		320
Intake connection	DN	63 ISO-K			
Exhaust side connection	DN	40 ISO-KF			
Mains voltage (+/- 10%)	V	200 - 460			
Nominal power at 50/60 Hz	kW	4.1		5.5	
Nominal current at 50/60 Hz	A	6		8	
Cooling		water/glycol			
Cooling water temperature	°C	5-35			
Cooling water throughput	l/min	3			
Water vapor tolerance with gas ballast 50/60 Hz	mbar	20/30		125/160	
Water vapor capacity with gas ballast 50/60 Hz	kg/h	1.24/2.3		11.5/18.0	
Permissible ambient temperature	°C	5-45			
Protection class EN 60529	IP	54			
Dimensions (W x H x D)	mm	814 x 375 x 550		895 x 400 x 567	

Ordering information

	LV 80	LV 80 C	LV 140	LV 140 C
LEYVAC dry vacuum pump with lubricant LEYBONOL LVO 410, complete with base plate, castors, temperature switch, purge system, rotor purge	115080V15		115140V15	
LEYVAC dry vacuum pump with housing		115080V30		115080V30
LEYVAC dry vacuum pump with LEYBONOL LVO 210 and housing				115140V40



Pioneering products. Passionately applied.