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## Leybold SP-250 **Technical Specifications**

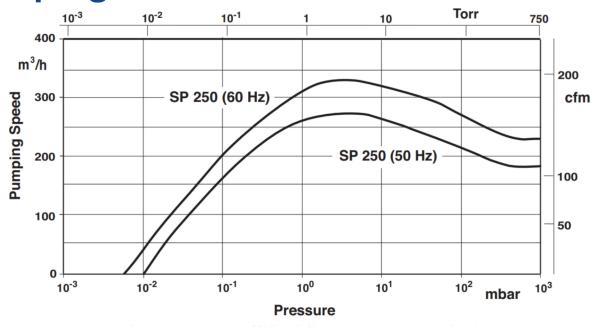
	50 Hz	60 Hz
Effective pumping speed m³/h (cfm)	270 (157)	330 (194)
Ultimate pressure, total mbar (Torr	≤ 0.01 (≤ 0.0075)	≤ 0.005 (≤ 0.0038)
Permissible intake pressure, max.		,
mbar (Torr	1030 (773)	1030 (773)
Maximum exhaust pressure with reference to the ambient pressure	$p_{ex} = p_{amb}$ + 200 mbar (150 Torr) - 50 mbar ( 37 Torr)	$p_{ex} = p_{amb}$ + 200 mbar (150 Torr) - 50 mbar (37 Torr)
Permissible ambient temperature °C (°F)	+10 to +40 (+50 to +104)	+10 to +40 (+50 to +104)
Water vapour tolerance (with gas ballast) mbar (Torr	60 (45)	75 (56)
Water vapour capacity (with gas ballast) kg/h (gal/h)	10 (2.7)	18 (4.9)
Installation location	up to 3000 metres (9.800 feet) (above sea level)	up to 3000 metres (9.800 feet) (above sea level)
Cooling	Air	Air
Power supply at operating voltage ΔΔ	` ' '	31.5 A / 210 V (cos phi 0.88) 15.5 A / 460 V (cos phi 0.88)
Nominal power kW (HP)	7.5 (10.0)	7.5 (10.0)
Power consumption at ultimate pressure kW (HP) kW (HP)	, , ,	7.2 (9.8) at 3-ph. 200 V / 400 V -
Energy efficiency class	IE 2	IE 2
Motor rotational speed rpm	2920	3505
Type of protection IF	55	55
Thermal protection class	F	F
Lubricant filling (LVO 210)	7	7
Intake flange, standard Clamping flange Bolt flange Bolt flange	ISO 1609-1986 (E)-63 (DN 63 ISO-K) <sup>1)</sup> ASME B 16.5 NPS 3 class 150 EN 1092-2-PN 6 – DN 65	ISO 1609-1986 (E)-63 (DN 63 ISO-K) <sup>1)</sup> ASME B 16.5 NPS 3 class 150 EN 1092-2-PN 6 – DN 65
Exhaust flange, standard Clamping flange	ISO 1609-1986 (E)-63 (DN 63 ISO-K)	ISO 1609-1986 (E)-63 (DN 63 ISO-K)
Exhaust flange, optional Clamping flange Bolt flange Bolt flange Bolt flange	ISO 1609-1986 (E)-63 (DN 63 ISO-K) <sup>1)</sup> ASME B 16.5 NPS 3 class 150 EN 1092-2-PN 16 – DN 65 EN 1092-2-PN 6 – DN 65	ISO 1609-1986 (E)-63 (DN 63 ISO-K) <sup>1)</sup> ASME B 16.5 NPS 3 class 150 EN 1092-2-PN 16 – DN 65 EN 1092-2-PN 6 – DN 65
Materials (components in contact with the gas)	Aluminum, aluminum anodic oxidised, C steel, CrNi steel, grey cast-iron, FPM (FKM) ((Viton))	Aluminum, aluminum anodic oxidised, C steel, CrNi steel, grey cast-iron, FPM (FKM) ((Viton))
Weight, approx. kg (lbs)	450 (992)	450 (992)
Dimensions (W x D x H) mm (in.	1350 x 530 x 880 (53.1 x 20.9 x 34.6)	1350 x 530 x 880 (53.1 x 20.9 x 34.6)
Noise level <sup>2)</sup> dB(A)	67	72

<sup>&</sup>lt;sup>1)</sup> This flange is required when ISO-K flanges are to be connected (Part No. 267 47)

<sup>2)</sup> With connected exhaust gas line at ultimate pressure

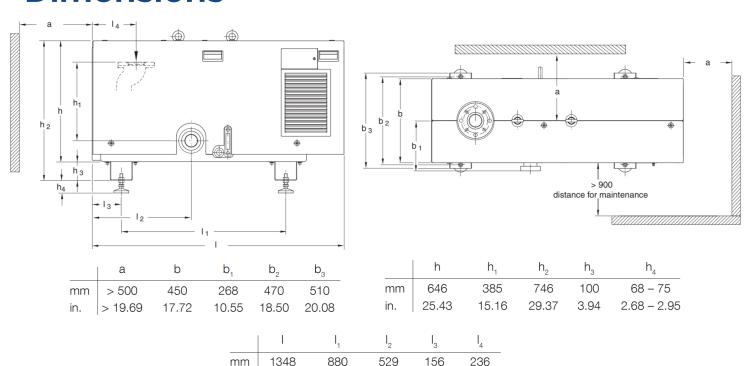
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# Leybold SP-250 **Pumping Curves**



Effective pumping speed of the SCREWLINE SP 250 for air, without gas ballast (50/60 Hz)

#### **Dimensions**



20.83

6.14

9.29

34.65

53.08

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### Leybold SP-250 **Features & Benefits**

- SP-GUARD monitors vital parameters
- rapid cleaning of pump chamber leads to minimum downtimes
- low internal temperatures helps avoid deposits
- minimum operating costs
- directly air cooled, no need for cooling water
- no seal gas needed for standard applications
- no oil in pump chamber; no contaminated oil disposal
- gear oil change only every 2 years
- multi-flange for all commonly used pipe connections
- · silencing hoods for further reduction of noise emissions

### **Applications**

- food processing · vacuum coating · lamination · loadlock chambers
- mechanical engineering
   automotive industry
   metallurgy/furnaces
- crystal pulling · degassing · electrical engineering · energy & welding technology · lamps/tubes manufacture · cooling & air conditioning
- chemistry/pharmaceuticals
   chemical research laboratories
   vacuum drying · freeze drying systems · environmental engineering · space simulation · packaging · medical technology · analytical engineering
- research & development backing pump for HV-systems