



PROVAC

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Leybold SP-630, SP-630F

Technical Specifications

50 Hz SCREWLINE SP 630 60 Hz			
Effective pumping speed	m ³ /h (cfm)	630 (371)	630 (371)
Ultimate total pressure	mbar (Torr)	≤ 0.01 (≤ 0.0075)	≤ 0.01 (≤ 0.0075)
Intake pressure limits, max.	mbar (Torr)	1030 (773)	1030 (773)
Maximum exhaust pressure with reference to the ambient pressure		$P_{ex} = P_{amb} + 200 \text{ mbar (150 Torr)}$ $- 50 \text{ mbar (37 Torr)}$	$P_{ex} = P_{amb} + 200 \text{ mbar (150 Torr)}$ $- 50 \text{ mbar (37 Torr)}$
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)	40 (30)	40 (30)
Water vapour capacity (with gas ballast)	kg/h (gal/h)	14 (3.7)	14 (3.7)
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	$\Delta\Delta$ Δ Y ¹⁾	56 A / 200 V 28 A / 400 V 16 A / 690 V	52 A / 210 V 24 A / 460 V –
cos φ		0.89	0.90
Nominal power	kW (HP)	15 (20)	15 (20)
Power consumption at ultimate pressure	kW (HP)	< 11 (< 15)	< 11 (< 15)
Energy efficiency class		IE 2	IE 2
Motor rotational speed	rpm	2930	3530
Type of protection	IP	55	55
Thermal protection class		F	F
Lubricant filling (LVO 210)	l	13	13
Intake flange and exhaust flange compatible with bolt flanges		EN 1092-2 - PN 6 – DN 100 EN 1092-2 - PN 16 – DN 100 ISO 1609-1986 (E)-100 (DN 100 ISO-K) ²⁾ ASME B 16.5 NPS4 class 150	EN 1092-2 - PN 6 – DN 100 EN 1092-2 - PN 16 – DN 100 ISO 1609-1986 (E)-100 (DN 100 ISO-K) ²⁾ ASME B 16.5 NPS4 class 150
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)	530 (1166)	530 (1166)
Dimensions (W x D x H)	mm (in.)	1630 x 660 x 880 (64 x 26 x 35)	1630 x 660 x 880 (64 x 26 x 35)
Noise level ³⁾	dB(A)	73	75

¹⁾ 690 V upon request²⁾ This flange is required when ISO-K flanges are to be connected (Part No. 267 50)³⁾ With connected exhaust gas line at ultimate pressure

50 Hz SCREWLINE SP 630 F 60 Hz			
Cooling		Water	Water
Water connection	G	1/2" ISO 228-1	1/2" ISO 228-1
Water temperature	°C (°F)	+5 to +35 (+41 to +95)	+5 to +35 (+41 to +95)
Minimum water feed pressure	bar (psi, gauge)	2 (15)	2 (15)
Nominal flow at a water feed temperature of 25° C (77 °F)	l/min (gal/min)	12 (3)	12 (3)
Noise level ¹⁾	dB(A)	71	71

¹⁾ With connected exhaust gas line at ultimate pressure

PROVAC SALES, INC. 3131 SOQUEL DRIVE, SOQUEL CA 95073



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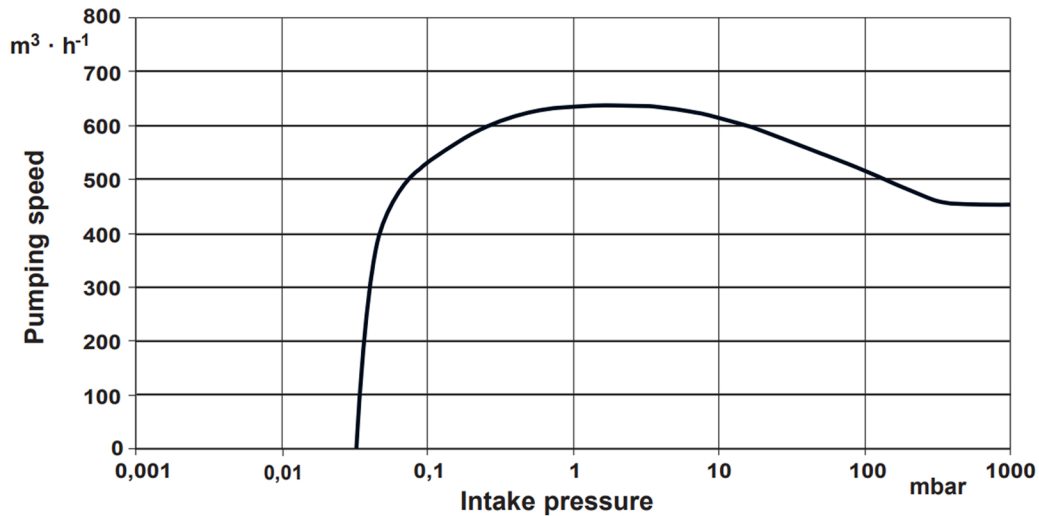
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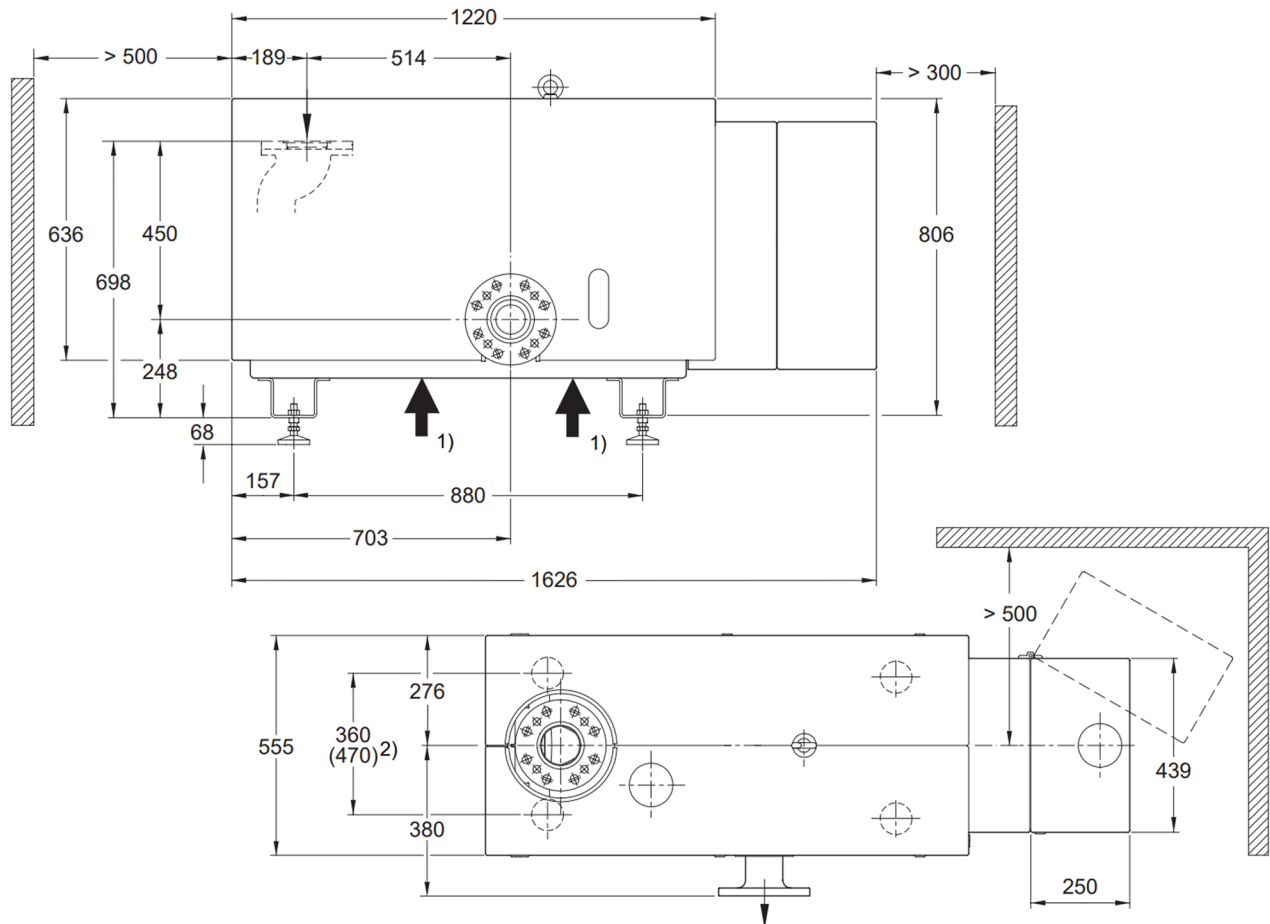
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Pumping Curves



Dimensions



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Features & Benefits

- protection of pump through monitoring vital parameters
- minimum downtimes
- avoidance of deposits through low internal temperatures
- minimum operating costs
- no seal gas needed for standard applications
- no oil in pump chamber
- gear oil change only every two years
- multi-flange for all commonly used pipe connections
- flushing kit for constant cleaning of pump chamber
- silencing hoods for further reduction of noise emissions

Applications

- industrial furnaces • coating technology • load lock chambers • energy research • metallurgical systems • food processing • drying processes
- degassing • research & development • lamps & tubes manufacture
- automotive industry • packaging industry • space simulation • electrical engineering

