



Leybold SV-630B(F), SV-750B(F)

Technical Specifications

		SV 630 B		SV 630 BF		SV 750 B/BF	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	
Nominal speed ¹⁾	m ³ x h ⁻¹ (cfm)	700 (412.0)	840 (494.4)	700 (412.0)	840 (494.4)	840 (494.4)	
Pumping speed ¹⁾	m ³ x h ⁻¹ (cfm)	640 (376.7)	755 (444.4)	640 (376.7)	755 (444.4)	755 (444.4)	
Ultimate total pressure without gas ballast ¹⁾	mbar (Torr)	< 8 x 10 ⁻² (< 6 x 10 ⁻²)	< 8 x 10 ⁻² (< 6 x 10 ⁻²)	< 8 x 10 ⁻² (< 6 x 10 ⁻²)	< 8 x 10 ⁻² (< 6 x 10 ⁻²)	< 8 x 10 ⁻² (< 6 x 10 ⁻²)	
Ultimate total pressure with one gas ballast valve ¹⁾	mbar (Torr)	≤ 0.7 (≤ 0.5)	≤ 0.7 (≤ 0.5)	≤ 0.7 (≤ 0.5)	≤ 0.7 (≤ 0.5)	≤ 0.7 (≤ 0.5)	
Ultimate total pressure with two gas ballast valves ¹⁾	mbar (Torr)	≤ 2 (≤ 1.5)	≤ 2 (≤ 1.5)	≤ 2 (≤ 1.5)	≤ 2 (≤ 1.5)	≤ 2 (≤ 1.5)	
Water vapor tolerance with 1 gas ballast ^{1), 2)}	mbar (Torr)	40.0 (30.0)	50.0 (37.5)	25.0 (18.8)	30.0 (22.5)	50.0 (37.5)	
with 2 gas ballast valves ^{1), 2)}	mbar (Torr)	60.0 (45.0)	70.0 (52.5)	35.0 (26.3)	40.0 (30.0)	70.0 (52.5)	
Max. perm. water vapor capacity with 1 gas ballast ^{1), 2)}	kg x h ⁻¹ (qt/hr)	17.0 (18.0)	24.0 (25.4)	11.0 (11.6)	14.0 (14.8)	24.0 (25.4)	
with 2 gas ballast valves ^{1), 2)}	kg x h ⁻¹ (qt/hr)	26.0 (27.5)	34.0 (35.9)	15.0 (15.9)	19.0 (20.1)	34.0 (35.9)	
Controlled anti-suck back valve 24 V DC		–	–	yes	yes	–	
Oil filling min. / max.	l	20 / 23	20 / 23	20 / 23	20 / 23	20 / 23	
Noise level (averaged) ³⁾	dB(A)	72	75	72	75	75	
Admissible ambient temperature	°C (°F)	12 - 40 (54 - 104)	12 - 40 (54 - 104)	12 - 40 (54 - 104)	12 - 40 (54 - 104)	12 - 40 (54 - 104)	
Motor power	kW (hp)	15.0 (20.2)	18.5 (25.0)	15.0 (20.2)	18.5 (25.0)	18.5 (–)	
Nominal speed pump	min ⁻¹ (rpm)	820 (820)	1000 (1000)	820 (820)	1000 (1000)	1000 (1000)	
Type of protection / Isolation	IP / -	54 / F	54 / F	54 / F	54 / F	54 / F	
Cooling		air	air	water	water	air / water	
Thermostatic valve		no	no	yes	yes	no / yes	
Temperature protection Pump		no	no	yes	yes	no / yes	
Motor PTC		no	no	yes	yes	no / yes	
Water quality	TH	–	–	4 to 8	4 to 8	–	
Water pressure, min. / max.	bar (psig)	–	–	2/8 (29/114)	2/8 (29/114)	–	
Net weight (with oil filling)	kg (lbs)	730 (1611)	760 (1678)	730 (1611)	760 (1678)	750 (1656)	
Dimensions (L x W x H)	mm (in.)	1510 x 909 x 740 (59.45 x 35.79 x 29.13)	1510 x 909 x 740 (59.45 x 35.79 x 29.13)	1566 x 638 x 909 (61.65 x 25.12 x 35.79)	1566 x 638 x 909 (61.65 x 25.12 x 35.79)	1510 x 909 x 740 (59.45 x 35.79 x 29.13)	
Connection Intake	EUROPE / US	DN	DN 100 PN 10 / DN 100 ISO-K	DN 100 PN 10 / DN 100 ISO-K	DIN 160 Roots adapter 100 ISO-K	DIN 160 Roots adapter 100 ISO-K	DN 100 PN 10 / DN 100 ISO-K
Exhaust	EUROPE / US	DN	Option	Option			Option

¹⁾ To DIN 28 400 and following numbers, with standard gas ballast

²⁾ Please ask Leybold for more information

³⁾ Operated at the ultimate pressure without gas ballast, free-field measurement at a distance of 1 m (3.5 ft)



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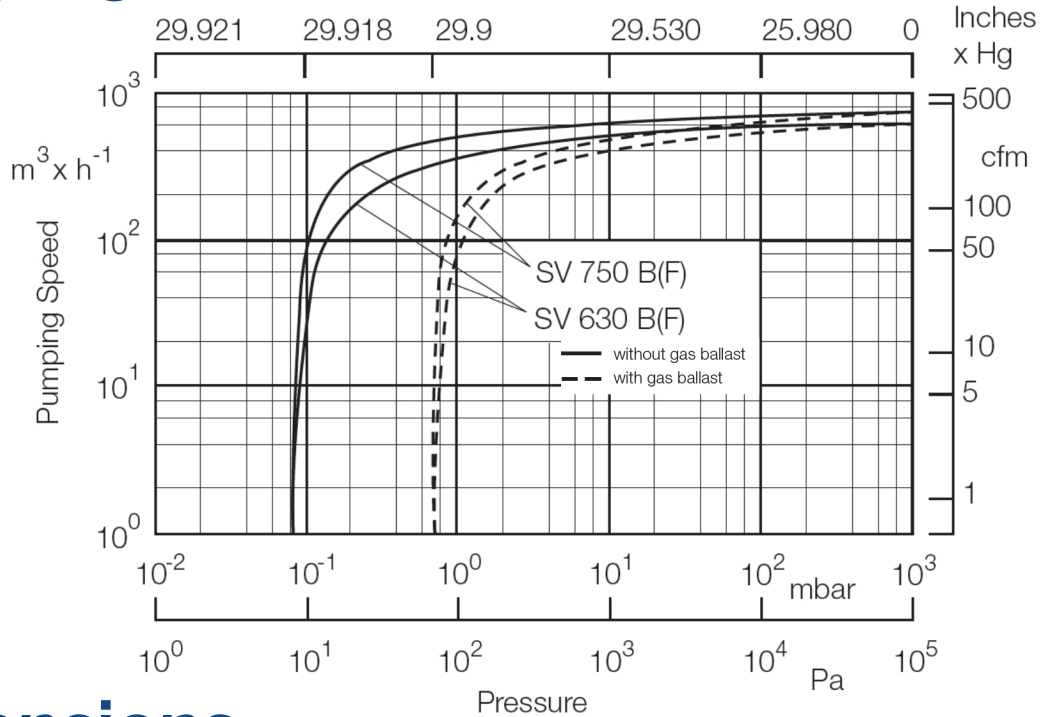
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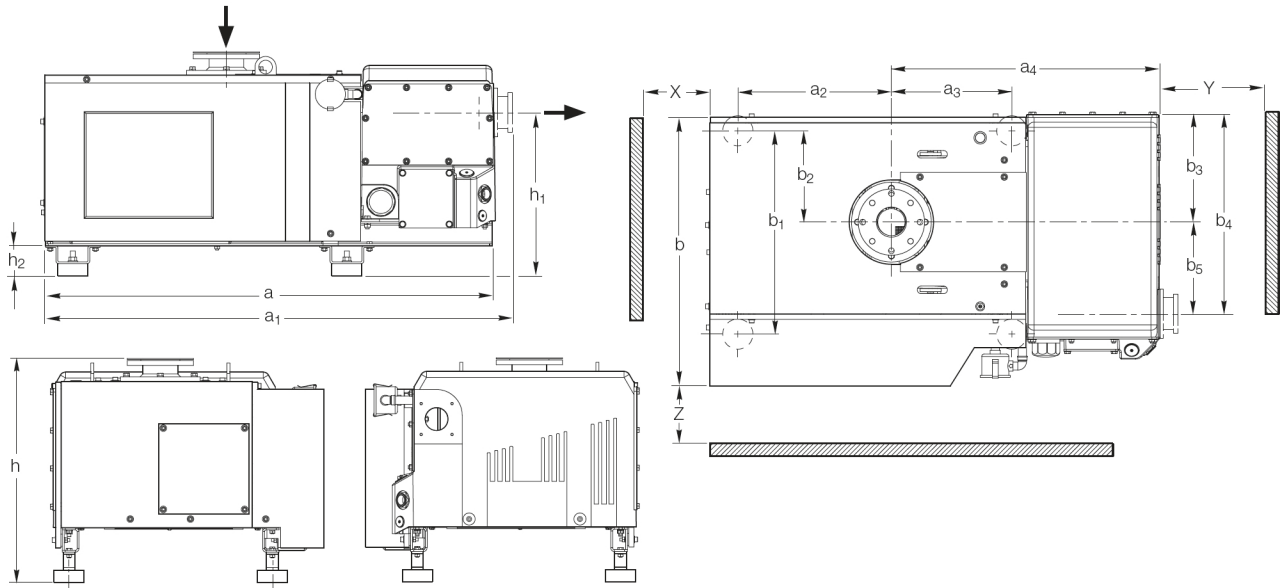
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Leybold SV-630B(F), SV-750B(F) Pumping Curves



Dimensions



Type		a	a ₁	a ₂	a ₃	a ₄	b	b ₁	b ₂	b ₃	b ₄	b ₅	h	h ₁	h ₂	X	Y	Z
630 B/750 B	mm	1510	1566	510	400	887	909	675	303	365	673	308	740	540	100	>500	>500	>500
	in.	59.45	61.65	20.08	15.75	34.92	35.79	26.57	11.93	14.37	26.50	12.13	29.13	21.26	3.94	19.69	19.69	19.69
630 BF/750 BF	mm	1510	1566	510	400	887	909	675	303	365	673	308	638	480	40	>500	>500	>500
	in.	59.45	61.65	20.08	15.75	34.92	35.79	26.57	11.93	14.37	26.50	12.13	25.12	18.90	1.57	19.69	19.69	19.69



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Leybold SV-630B(F), SV-750B(F) Features & Benefits

- very low rotational speed
- extremely low noise level
- reduced number of oil pipes
- reduced operational costs
- lower oil volume & less exhaust filters necessary
- simplified maintenance
- close-couple adapter for direct mounting

Applications

- vacuum coating • metallurgy • furnaces • automotive industry • space simulation • electrical & mechanical engineering • freeze drying systems • plant engineering • cleaning • packaging

