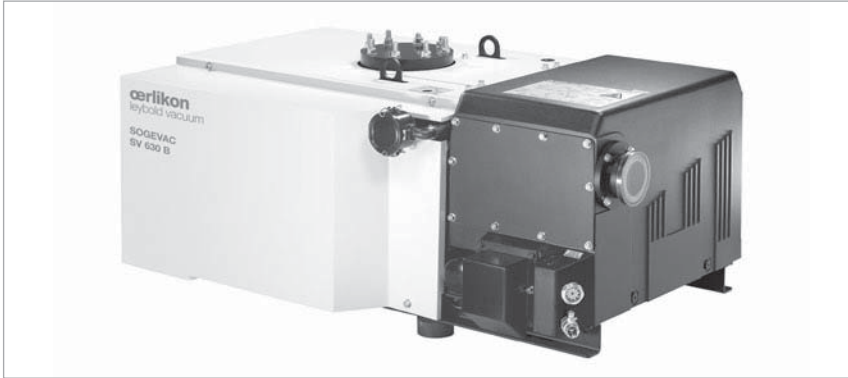
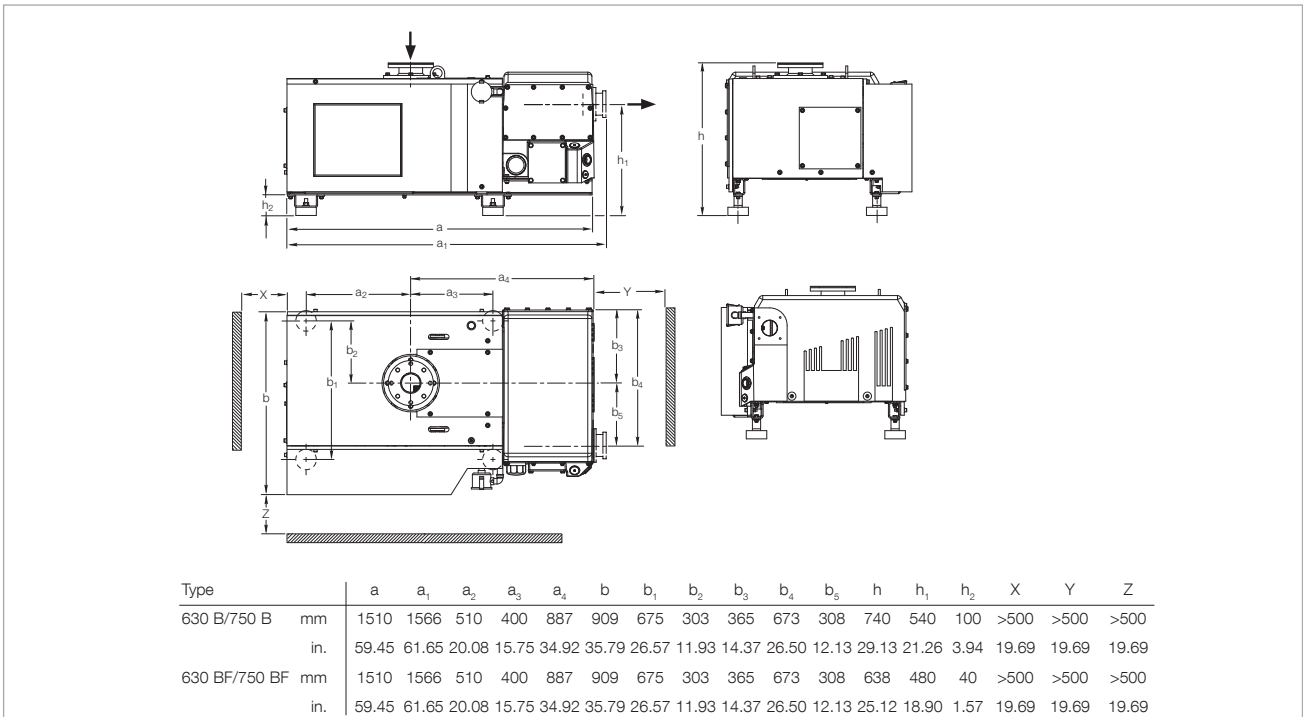


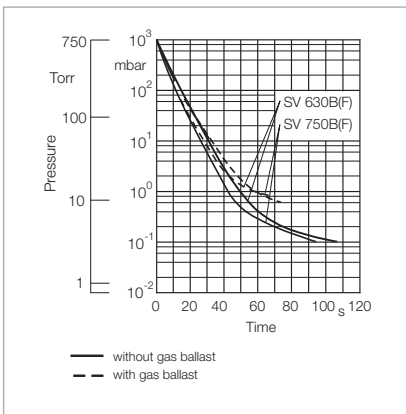
SOGEVAC SV 630 B/630 BF/750 B/750 BF



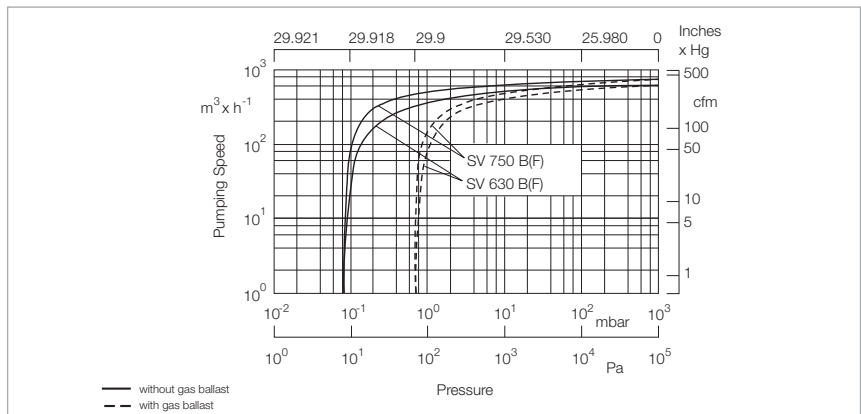
SOGEVAC SV 630 B



Dimensional drawing for the SOGEVAC SV 630 B, SV 630 BF, 750 B and 750 BF



Pumpdown curve for a 1000 l vessel for 50 Hz pump operation



Pumping speed characteristics of the SOGEVAC SV 630 B(F) and 750 B(F) (60 Hz curves at the end of the chapter)

Technical Data			SOGEVAC SV 630 B		SOGEVAC SV 630 BF		SOGEVAC 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)	–		
Materials (materials in contact with the gas)		Steel, cast iron, Aluminium, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminium, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminium, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminium, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminium, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre		
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	Option
Exhaust	EUROPE / US	DN	Option	Option			Option	

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

²⁾ Please ask Oerlikon Leybold Vacuum for more information

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

Ordering Information

SV 630 B 50/60 Hz

SOGEVAC SV 630 BF 50/60 Hz

SV 750 B/BF 50 Hz

	Part No.	Part No.	Part No.
SOGEVAC SV 630 B with three-phase motor 400 V, 50 Hz (NEMA) and 230/460 V, 60 Hz	960 865	-	-
380/400/415/690 V, 50 Hz and 440/460 V, 60 Hz	960 863	-	-
200 V, 50 Hz (JIS) and 200 V, 60 Hz	960 862	-	-
SOGEVAC SV 630 BF with three-phase motor 400 V, 50 Hz (NEMA) and 230/460 V, 60 Hz	-	960 869	-
380/400/415/690 V, 50 Hz and 440/460 V, 60 Hz	-	960 867	-
200 V, 50 Hz (JIS) and 200 V, 60 Hz	-	960 866	-
SOGEVAC SV 750 B with three-phase motor 380/400/415/690 V, 50 Hz	-	-	960 875
SOGEVAC SV 750 BF with three-phase motor 380/400/415/690 V, 50 Hz	-	-	960 877
Other voltages/frequencies	upon request	upon request	upon request
Filling with special oil	upon request	upon request	upon request

Ordering Information

**SV 630 B
50/60 Hz**

**SOGEVAC
SV 630 BF
50/60 Hz**

**SV 750 B/BF
50 Hz**

	Part No.	Part No.	Part No.
Accessories			
Adapter for Roots pump RUVAC 1000 RUVAC 2000 RUVAC WH4400	971 432 340 971 432 350 971 43 WH4400	971 432 340 standard 971 43 WH4400	971 432 340 971 432 350 971 43 WH4400
Oil drain valve	711 30 114	standard	711 30 114
Gas ballast kit electromagnetic, 24 V DC	971 438 170	standard	971 438 170
Gas ballast, standard manual	standard	971 446 490	971 446 490
2nd gas ballast valve electromagnetic, 24 V DC manual	- 971 438 340	971 438 160 -	- 971 438 340
Exhaust filter monitoring gauge	951 94	951 94	951 94
Oil level check	971 425 760	971 425 760	425 760
Temperature switch	standard	standard	standard
Water cooling with thermostatic valve	upon request	standard	upon request
Intake kit DN 100 ISO-K	standard	971 430 550	standard
Exhaust filter overpressure switch	712 22 360	712 22 360	712 22 360
Oil filter bypass	712 36 390	712 36 390	712 36 390
Exhaust kit DN 100 PN 10 - 100 ISO-K	971 438 540	standard	971 438 540 for B version, standard on SV 750 BF
Spare Parts			
Oil filter, standard	714 05 310	714 05 310	714 05 310
Exhaust filter AFE SV630/SV750B/SV300B (8 are required)	971 431 120	971 431 120	971 431 120
Intake filter element Paper Metal Activated charcoal Polyester	710 35 242 E 710 37 734 710 37 724 712 61 508	710 35 242 E 710 37 734 710 37 724 712 61 508	710 35 242 E 710 37 734 710 37 724 712 61 508
Seal kit FPM	971 437 310	971 437 310	971 437 310
Repair kit, complete	971 437 320	971 437 320	971 437 320
Generator kit	971 437 330	971 437 330	971 437 330
Maintenance kit	971 437 340	971 437 340	971 437 340