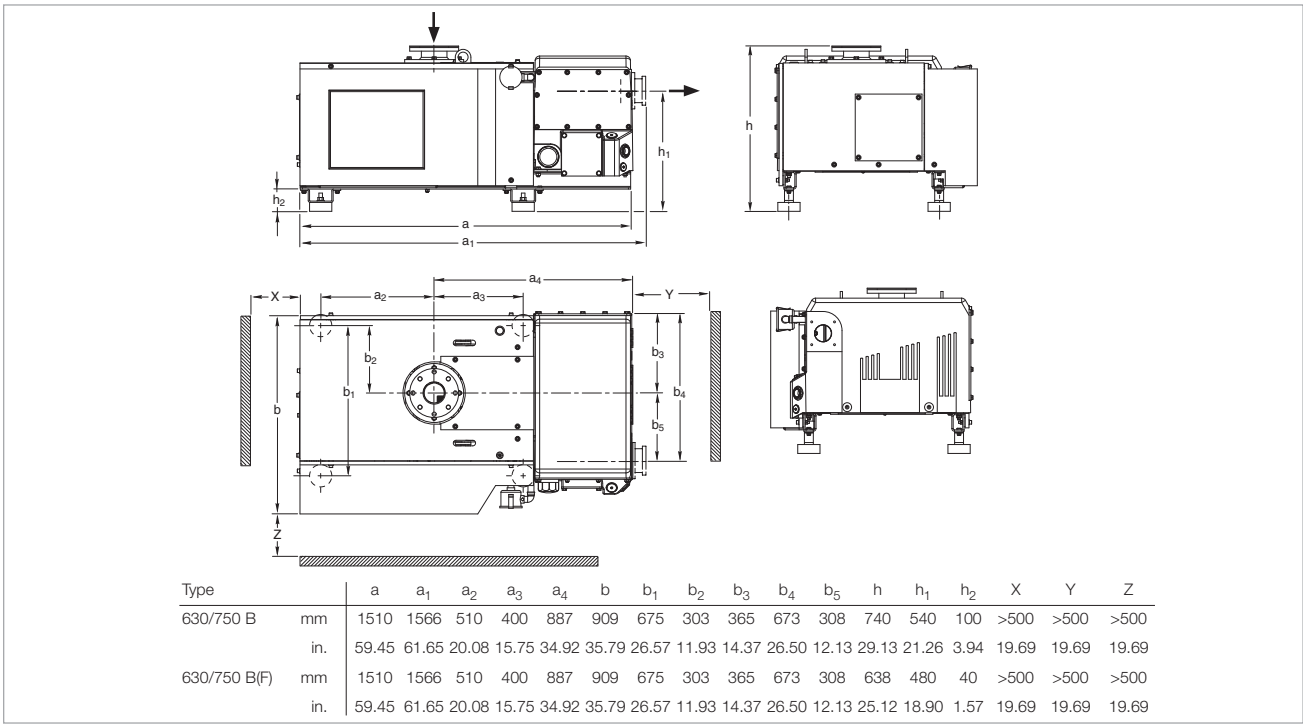


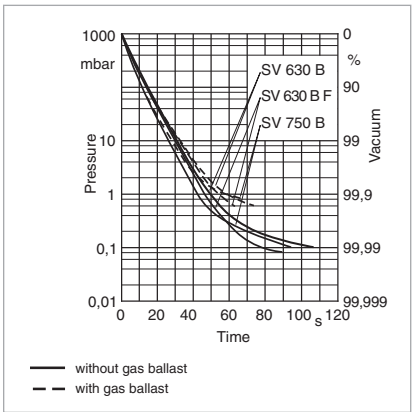
SOGEVAC SV 630 B / 630 BF / 750 B(F)



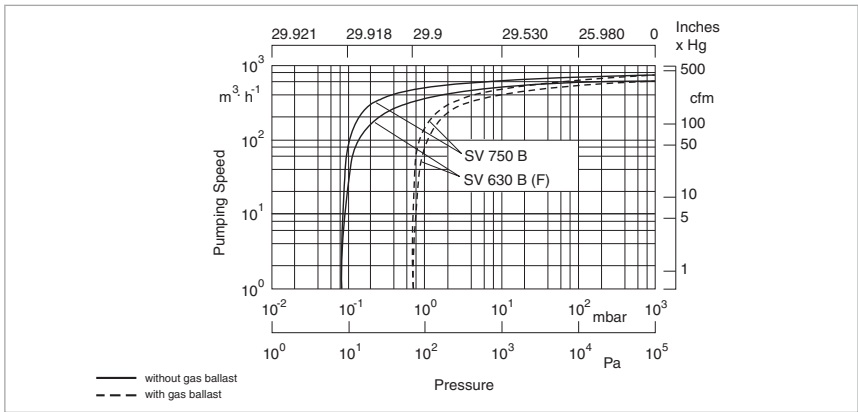
SOGEVAC SV 630 B



Dimensional drawing for the SOGEVAC SV 630 B(F) und 750 B



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



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

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 partial 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 vapour quantity 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 (25.0)	18.5 (25.0)	15.0 (25.0)	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			–	–	water	water	Oil
Thermostatic valve			–	–	yes	yes	–
Temperature protection Pump			yes	yes	yes	yes	yes
Motor			–	–	yes	yes	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, Aluminum, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminum, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminum, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminum, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminum, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre
Weight (with oil fillung)	kg (lbs)		650 (1435)	650 (1435)	650 (1435)	650 (1435)	650 (1435)
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)	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)	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

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

²⁾ Please ask Oerlikon Leybold Vacuum for more information

Ordering Information

SV 630 B 50/60 Hz

SOGEVAC SV 630 BF 50/60 Hz

SV 750 B/BF 50 Hz

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

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