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Leybold WH-700
Technical Specifications

		WH 700			
		50 Hz	60 Hz	80 Hz [1]	120 Hz [1]
Nominal pumping speed [2]	$m^3 \times h^{-1}$ (cfm)	710 (418)	860 (507)	1150 (677)	1730 (1019)
Max. effective pumping speed with backing pump SOGEVAC SV 300 B	$m^3 \times h^{-1}$ (cfm)	620 (365)	740 (436)	950 (560)	1310 (772)
Max. permissible pressure difference during continuous operation [3), 4), 5)]					
WH 700	mbar (Torr)	75.0 (56.3)	65.0 (48.8)	50.0 (37.5)	30.0 (22.5)
Leak rate, integral	mbar x l x s^{-1}	< 1 x 10^{-5}	< 1 x 10^{-5}	< 1 x 10^{-5}	< 1 x 10^{-5}
Mains voltage					
WH 700		340 to 530	340 to 530	340 to 530	340 to 530
FC operation	V	180 to 260	180 to 260 [6)]	180 to 260	180 to 260
		360 to 440	410 to 500	–	–
Mains operation	V	180 to 260	210 to 260 [6)]	–	–
Max. permissible pressure difference at mains voltage [5)]					
200 V	mbar (Torr)	50.0 (37.5)	50.0 (37.5)	40.0 (30.4)	25.0 (9.0)
400 V	mbar (Torr)	60.0 (45.6)	60.0 (45.6)	45.0 (34.2)	25.0 (19.0)
Permissible ambient temperatures					
WH 700	°C	+5 to +45	+5 to +45	+5 to +45	+5 to +45
	(°F)	(+41 to +113)	(+41 to +113)	(+41 to +113)	(+41 to +113)
Nominal power consumption					
WH 700					
FC operation	kW (hp)	3.5 (4.7)	3.5 (4.7)	3.5 (4.7)	3.5 (4.7)
Mains operation	kW (hp)	2.2 (2.9)	2.6 (3.5)	–	–
Idle mode power consumption	kW (hp)	0.5 (0.7)	0.5 (0.7)	0.5 (0.7)	0.5 (0.7)
Energy efficiency class		IE 2	IE 2	IE 2	IE 2
Nominal speed					
WH 700	rpm	3000	3600	4800	7200
Max. permissible speed [7)]	rpm	7200	7200	7200	7200
Type of protection					
WH 700	IP	55	55	55	55
Water connection (4 pcs.)	G	1/4", female	1/4", female	1/4", female	1/4", female
Cooling water quantity [8)]	l/min	1 to 3	1 to 3	1 to 3	1 to 3
Cooling water admission temperature	°C	5 to 35	5 to 35	5 to 35	5 to 35
	(°F)	(+41 to +95)	(+41 to +95)	(+41 to +95)	(+41 to +95)
Permissible cooling water pressure	bar	2 to 6	2 to 6	2 to 6	2 to 6
Lubricant [9)]					
gear side	l (qt)	0.6 (0.63)	0.6 (0.63)	0.6 (0.63)	0.6 (0.63)
motor side	l (qt)	0.3 (0.31)	0.3 (0.31)	0.3 (0.31)	0.3 (0.31)
Connection flange					
Inlet	ISO-K	100	100	100	100
Outlet	ISO-K	63	63	63	63
Weight					
WH 700	kg (lbs)	125 (276)	125 (276)	125 (276)	125 (276)
Dimension (W x B x H)					
WH 700	mm	709 x 265 x 270	709 x 265 x 270	709 x 265 x 270	709 x 265 x 270
	(in.)	(27.91x10.43x10.63)	(27.91x10.43x10.63)	(27.91x10.43x10.63)	(27.91x10.43x10.63)
Noise level [10)]	dB(A)	< 56	< 56	< 60	< 60

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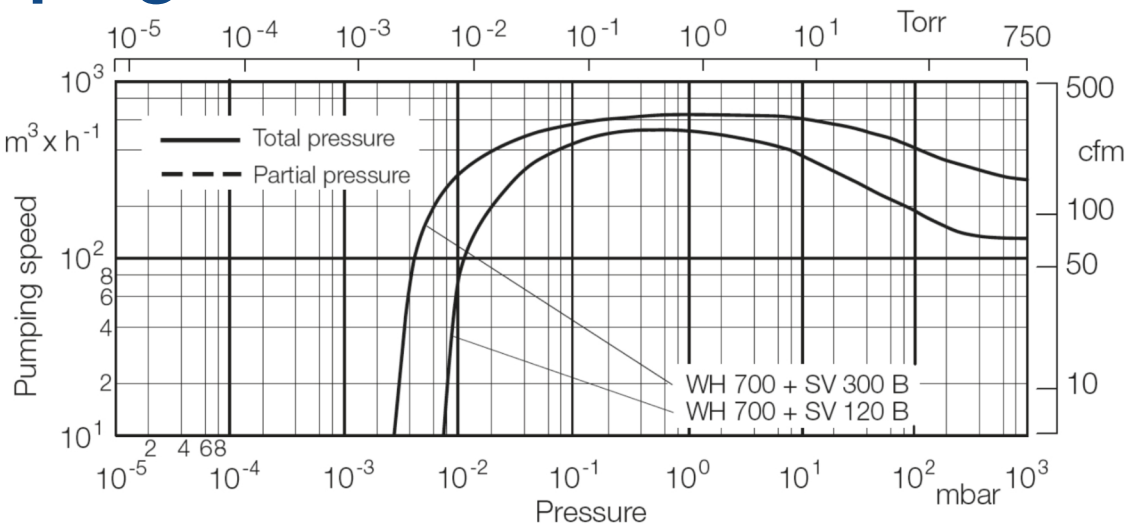
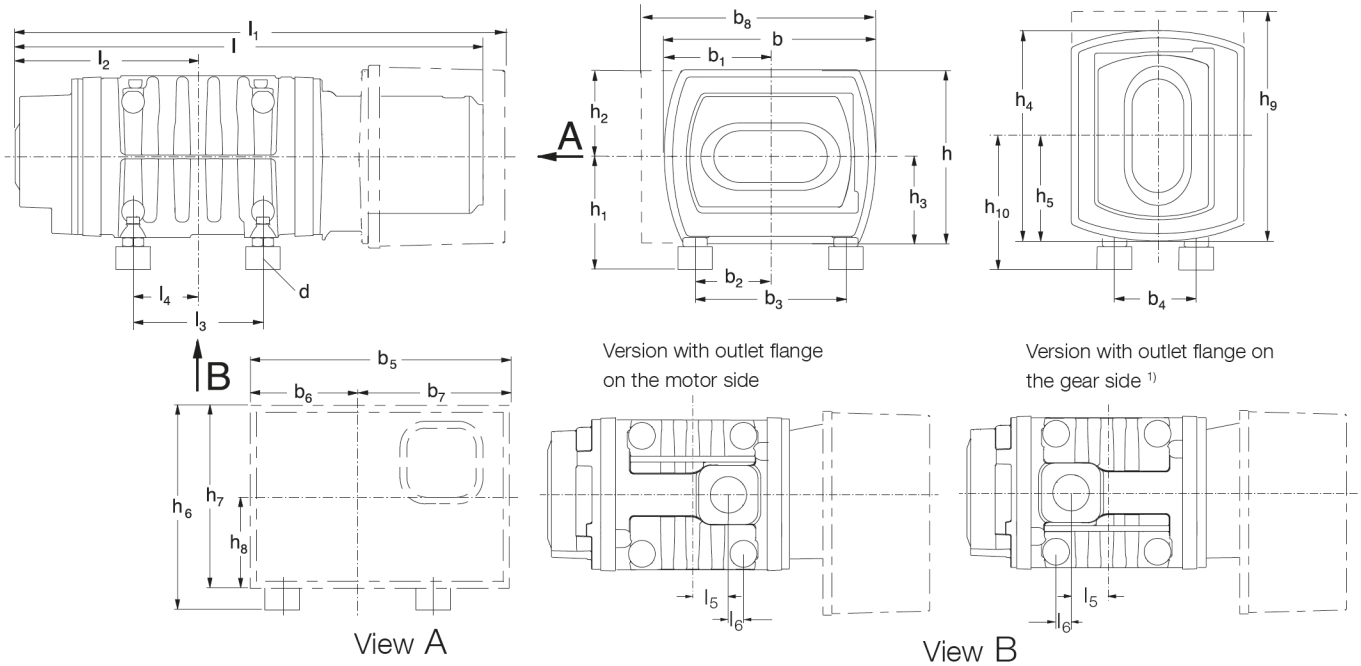
Pumping Curves



Dimensions



Type		Inlet flange	Outlet flange	l	l_1	l_2	l_3	l_4	l_5	l_6	d
WH 700	mm	100 ISO-K	63 PN 6	705	–	259	276	138	–	–	M 8
	in.			27.76	–	10.20	10.87	5.43	–	–	M 8
Type		b	b_1	b_2	b_3	b_4	b_5	b_6	b_7	b_8	h
WH 700	mm	269	129	100	200	–	–	–	–	–	270
	in.	10.59	5.08	3.94	7.87	–	–	–	–	–	10.63
Type		h_1	h_2	h_3	h_4	h_5	h_6	h_7	h_8	h_9	h_{10}
WH 700	mm	176	114	156	–	–	–	–	–	–	–
	in.	6.93	4.49	6.14	–	–	–	–	–	–	–

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Features & Benefits

- lower energy costs through innovative motor technology
- minimized space requirements due to compact design
- easy system integration
- optimum price-to-performance ratio
- integrated water cooling system for installation within closed systems
- parts in contact with cooling water are corrosion-free
- hermetically sealed motor
- long service intervals and no oil leaks
- easy conversion from vertical to horizontal pumping action

Applications

- solar industry • furnace construction • industrial coating processes
- research • space simulation