



Thermo Savant VLP-80, VLP-120

Technical Specifications

		VLP80	VLP120	VLP200	VLP285
Maximum Displacement L/m (cfm)	60 Hz	76 (2.7 cfm)	116 (4.1 cfm)	195 (6.9 cfm)	283 (10.0 cfm)
	50 Hz	62 (2.2 cfm)	96 (3.4 cfm)	161 (5.7 cfm)	238 (8.4 cfm)
Gas Ballast	0 (Torr)	1.5×10^{-3}	1.5×10^{-3}	1.5×10^{-3}	1.5×10^{-3}
	I (Torr)	2.3×10^{-2}	2.3×10^{-2}	2.3×10^{-2}	2.3×10^{-2}
	II (Torr)	9.0×10^{-2}	7.5×10^{-2}	4.5×10^{-2}	4.5×10^{-2}
Oil Capacity		0.7	0.7	0.75	1.0
Dimensions	Inches	16.9x6.2x8.8	16.9x6.2x8.8	18.5x6.2x10.5*	19.3x6.2x10.5*
	Millimetres	429x158x225	429x158x225	471x158x261*	489x158x261*
Weight (Without Oil)	lbs	47.6	47.4	57.3	58.0
	kg	21.6	21.5	26.0	26.3
Motor Power	120 V, 60 Hz (Watts)	300	300	550	550
	Start-Up Current (Amps)	31.5	31.5	34.0	34.0
	Fuse Rating, (Amps)	20	20	25	25
	230 V, 50 Hz (Watts)	250	250	450	450
	Start-Up Current (Amps)	15.6	15.6	18.0	18.0
	Fuse Ratings, (Amps)	10	10	13	13
Noise (At 50 Hz) (dBA)		48	48	48	48
Vacuum Inlet Fitting, OD (in/mm)		0.5/12.7	0.5/12.7	0.5/12.7	0.5/12.7

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Parameters	Units	1-phase	1-phase	1-phase	1-phase
Gas-ballast control closed (position '0')					
Ultimate total pressure	Torr	1.5×10^{-3}	1.5×10^{-3}	1.5×10^{-3}	1.5×10^{-3}
Gas-ballast control low flow (position 'I')					
Ultimate total pressure	Torr	2.25×10^{-2}	2.25×10^{-2}	2.25×10^{-2}	2.25×10^{-2}
Gas-ballast flow	l.min ⁻¹	5	5	5	5
Maximum water vapor pumping rate	g.h ⁻¹	60	60	60	60
Maximum water vapor inlet pressure	Torr	20	12	7.5	5.25
Gas-ballast control high flow (position 'II')					
Ultimate total pressure	Torr	0.9×10^{-1}	0.75×10^{-1}	4.5×10^{-2}	4.5×10^{-2}
Gas-ballast flow	l.min ⁻¹	14	14	16	16
Maximum water vapor pumping rate	g.h ⁻¹	220	220	220	290
Maximum water vapor inlet pressure	Torr	60	37.5	28.5	24



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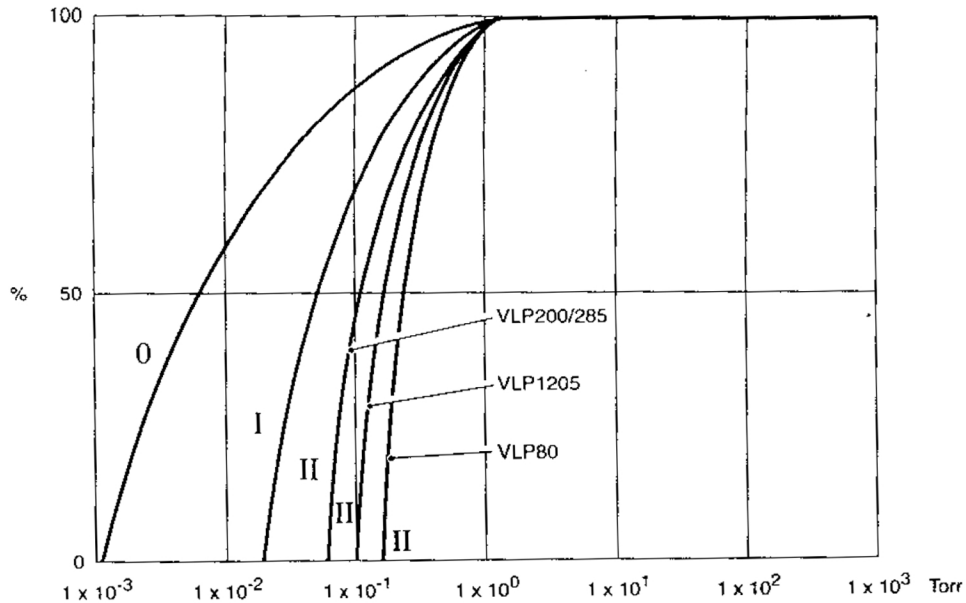
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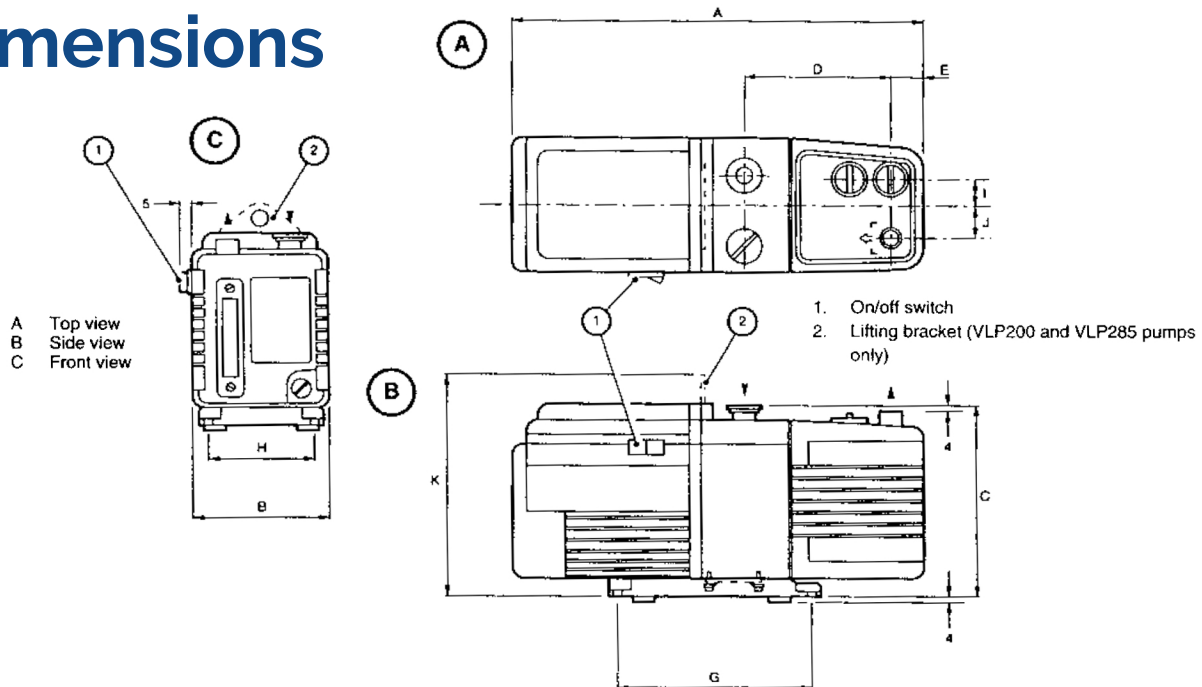
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Thermo Savant VLP-80, VLP-120 Pumping Curves



Dimensions



Pump	A	B	C	D	E	F	G	H	I	J	K
VLP80	430	158	225	127	29	78	230	120	37	32	-
VLP120	430	158	225	127	29	78	230	120	37	32	-
VLP200	470	158	225	161	35	78	230	120	37	32	261
VLP285	490	158	225	181	35	78	230	120	37	32	261



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Thermo Savant VLP-80, VLP-120 Features & Benefits

- two-stage, oil-sealed
- 3-position gas ballast control
- anti-suckback valve
- retractable lifting handle
- thermal overload device



Applications

- vacuum furnace evacuation • rotary evaporation • refrigeration system evacuation • epoxy degassing • vacuum sterilization • backing mass spectrometers, turbo pumps, diffusion pumps • freeze drying • space research • vacuum centrifugal applications • vacuum distillation

