

Liquid Ring Vacuum Pump (Single-action type)

VL Model



Standard Specifications of Major Components

Item	Bore (Inlet x Outlet) (mm)				
	150 x 150	200 x 200	250 x 250	300 x 300	
Applicable gas and seal liquid	Seal liquid	Water			
	Seal liquid temperature	13 to 50°C			
	Gas	Air			
	Gas temperature	Normal temperature			
	Outlet pressure	101.3 kPa abs (0 kPa G)			
Pump	Structure	Seal liquid filling method	Pressurized		
		Seal liquid pressure required	50 kPa G		
		Outlet type	Variable port (ball valve)		
		Shaft seal	Gland packing		
		Bearing	Self-aligning roller bearing		
	Material	Casing	FC200		
		Port plate	FC250		
		Impeller	SS400		
		Shaft	SUS420J2		
		Type / Number of poles	Fully-enclosed, external fan (indoor), 4- or 8-pole		
Motor	Phase	50 Hz: 3-phase 60 Hz: 3-phase			
	Piping connection	JIS10K flange (FF)			

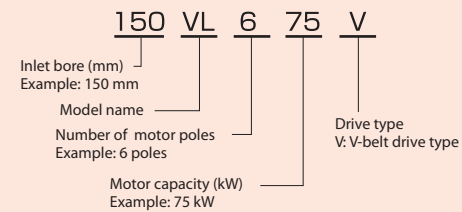
Special Specifications

Pump	Structure	Shaft seal	Mechanical seal
		Casing	SCS13, SCS14
	Material	Port plate	SCS13, SCS14
		Impeller	SUS304, SUS316
		Shaft	SUS304, SUS316

Contact us for custom specifications other than those noted above.

Model Identification

The following model information is for example purposes only:



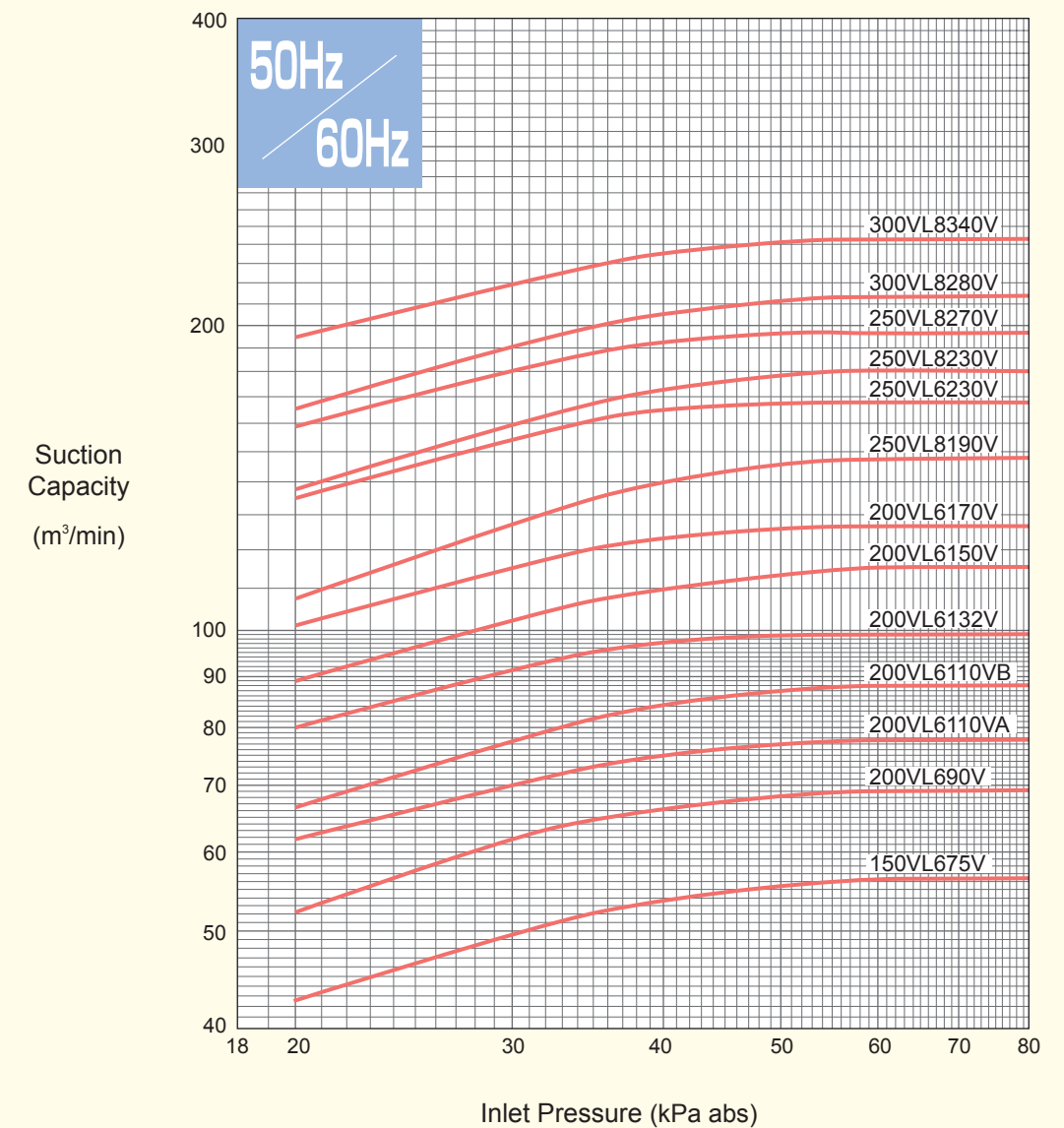
Standard Accessories (V-belt Drive Type)

- Common base 1 pc
- Foundation bolt 1 set
- Motor 1 pc
- V-pulley 1 set
- V-belt 1 set
- Safety cover 1 set

Optional Accessories

- Vacuum gauge
- Connecting pipe (suction, discharge)
- Separator tank
- Temporary strainer
- Gas check valve
- Seal liquid flow meter

50/60 Hz Performance Curves



50/60 Hz Standard Specifications (at a seal liquid temperature of 15°C)

Bore [Inlet x Outlet] (mm)	Number of ports	Model	Rotation speed (min ⁻¹)	Motor capacity (kW)	Number of poles	Suction capacity [suction condition] (m ³ /min)							Approx. seal liquid flow rate* (L/min)
						Inlet pressure (kPa G)							
						-81.3 20	-71.3 30	-61.3 40	-51.3 50	-41.3 60	-21.3 80	-71.3 30	
150 x 150	2	150VL675V	470	75	6	42.5	49.5	53.5	55.5	56.5	56.5	120	
200 x 200	2	200VL690V	365	90	6	52	61.5	66	68	69	69	160	
200 x 200	2	200VL6110VA	415	110	6	61.5	70	75	77	77.5	77.5	160	
200 x 200	2	200VL6110VB	310	110	6	66	77	84	87	88	88	200	
200 x 200	2	200VL6132V	350	132	6	80	91	97	98.5	99	99	200	
200 x 200	2	200VL6150V	295	150	6	88	102	110	113	115	115	260	
200 x 200	2	200VL6170V	330	170	6	101	115	123	126	127	127	260	
250 x 250	2	250VL8190V	260	190	8	107	127	140	145	148	148	320	
250 x 250	2	250VL6230V	310	230	6	134	154	165	167	168	168	320	
250 x 250	2	250VL8230V	245	230	8	137	159	172	178	180	180	380	
250 x 250	2	250VL8270V	275	270	8	158	180	192	196	197	197	380	
300 x 300	2	300VL8280V	225	280	8	164	190	205	211	214	214	440	
300 x 300	2	300VL8340V	260	340	8	194	219	235	241	243	243	440	

* The seal liquid flow rate indicates the values at -71.3 kPa G (30 kPa abs).