SH-Vacuum Pump Series





SH-V Series



SH-VDC (Low noise) Series



SH-DV (Oil free) Series





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	JU-A ZELIEZ	

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Refrigeration industry

Automatic pumping line of refrigerator, air-condition water dispenser; refrigerant charging machine; helium leak detector; helium recovery system etc.



Medical industry

Plasma sterilizers, vacuum freeze drying, vacuum mixing etc. Considering there is a large amount of H202 gas and water vapor which will be exhausted into vacuum pump, value designed weak corrosion-resistant vacuum pump SH-V-series.



Analytical instruments

Spectrometer, scanning electron microscope, leak detector, physics & chemistry analytical instrument etc.



Power industry

SF⁶ Gas recovery, detecting instrument, oil filter etc.



Electronics, semi-conductor industry

Vacuum oven, glove box, sapphire furnace, polycrystalline furnace, single crystal furnace, vacuum annealing, hardening furnace, vacuum sintering furnace, heat treatment furnace, evaporation coating, ion plating, sputtering equipment, LC injection, plasma cleaning, roughing pump for roots pump, molecular pump, diffusion pump.



Refrigeration industry

Automatic pumping line of refrigerator, air-condition water dispenser; refrigerant charging machine; helium leak detector; helium recovery system etc.



Dual automatic anti-sucking back design

Protects vacuum system from oil pollution when pump stops running and needs to be easily restarted



Integrated sylinder structure and pin connection

Convenient and accurate for maintenance and inspection.



Forced oil circulation system

Ensure stable running of th pump.

SH-V Series

Perfect design and performance

Constantly pursuing on highest technology norms, SH Scientific V series vacuum pump reached new highest level: cylinder structure and innovative oil circulation system results in super stability; auto anti-sucking back valve and two shifts gas ballast makes best reliability; Perfect combination of technology and aesthetics helps to become classic.



- Tow-Shift adjustable gas ballast valve satis- fies different requirements of condensable vapor(such as water vapor) to be exhausted out of pump in different processes.
- Dual protection of oil anti-sucking back ensures vacuum system from oil pollution when pump stops running and needs to be easily restarted.
- Forced oil circulation system consisted of oil pump and constant pressure oil supply mechanism ensures stable running of the pump.
- Less components are used, easy to maintain and repair.

Specifications

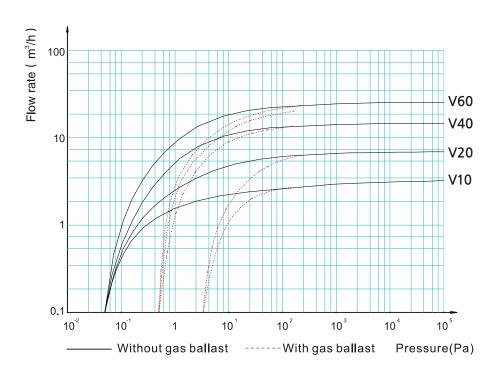
Model		SH-V10	SH-V20	SH-V40	SH-V60	
Dumping Speed	50Hz	66L/min	132L/min	264L/min	498L/min	
Pumping Speed	60Hz	78L/min	156L/min	312L/min	594L/min	
Ultimate total pressure gables close(Pa)	Ultimate total pressure gas ballast close(Pa)		5x10 ⁻¹ Pa	4x10 ⁻¹ Pa	4x10 ⁻¹ Pa	
Ultimate total pressure gas ballast open(Pa)		3	3 8x10 ⁻¹ Pa		8x10 ⁻¹ Pa	
Power supply	Dual Voltage (110V60Hz, 220V/60Hz)					
Power rating(kw)		0.4(1 Phase)	0.4(1 Phase)	0.75(1 Phase)	1.1(1 Phase)	
Intake and exhaust DN(m	KF 16/25	KF 16/25	KF 25	KF 25/40		
Oil capacity(L)	0.6~1.0	0.6~1.0	0.9~1.5	1.3~2.0		
Ambient temperature(℃	5-40	5-40	5-40	5-40		
Noise level(dB)	Noise level(dB)			≤58	≤58	
Weight(kg)	19	21	30	43		



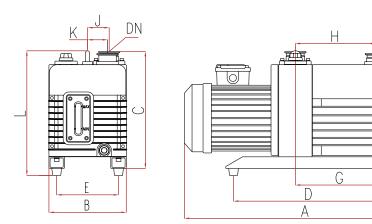
Option: Oil Mist Trap



Flow Rate Characteristic



Dimension



	Dimensions											
Model	A B		C	D	Е	G	Н	I	J	K	L	DN
V10	460	144	207	210	110	126	154	45	45	34	/	KF16/25
V20	460	144	207	210	110	126	154	45	45	34	/	KF16/25
V40	520	188	272	320	148	160	165	69	59	38	295	KF25
V60	520	188	272	320	148	160	165	69	59	38	295	KF25

SH-VDC (Low noise) Series

Dual stage low noise rotary vacuum pump

Constantly pursuing on innovative technology and high standards. The pump is absolutely energy-saving with small motor power design. The feature of low noise level is an ideal choice for high requirements of quite operation, especially for analytical applications.



- Low noise level allows for an installation close to the work space.
- Anti-corrosion design(optional)
- Low power consumption for cost saving.
- Low and easy maintenance.
- Easy installation and samll footprint.

Specifications

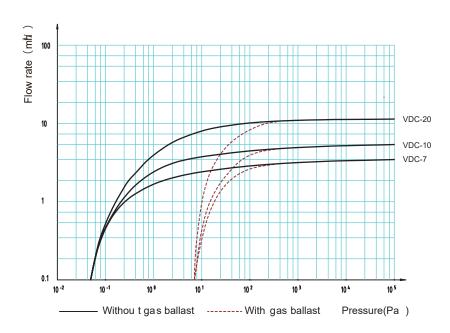
Model	SH-VDC7	SH-VDC10	SH-VDC20		
Pumping Speed(50/60Hz)	66L/min	96L/min	183L/min		
Ultimate total pressure gas ballast close(Pa)	5x10 ⁻² Pa	5x10 ⁻² Pa	5x10 ⁻² Pa		
Ultimate total pressure gas ballast open(Pa)	10	10	10		
Power supply	Single-ph (220V/50-60Hz)				
Power rating(kw)	0.37	0.37	0.37		
Intake and exhaust DN(mm)	KF 16/25	KF 16/25	KF 16/25		
Oil capacity(L)	0.6~1	0.6~1	0.6~1		
Ambient temperature(℃)	5-40	5-40	5-40		
Noise level(dB)	≤48	≤48	≤50		
Weight(kg)	14.5	14.5	15.5		



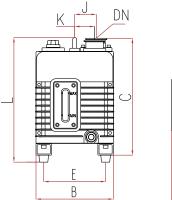
Option: Oil Mist Trap

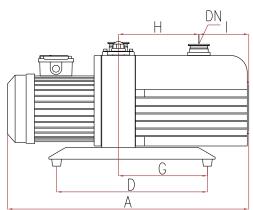


Flow Rate Characteristic



Dimension





	Dimensions											
Model	А	В	C	D	Е	G	Н	I	J	K	L	DN
VDC7	420	144	207	210	110	126	154	45	45	34	/	KF16/25
VDC10	420	144	207	210	110	126	154	45	45	34	/	KF16/25
VDC20	420	144	207	210	110	126	154	45	45	34	/	KF16/25



SH-DV (Oil free) Series

Introduction of Oil free Scroll Vacuum Pump



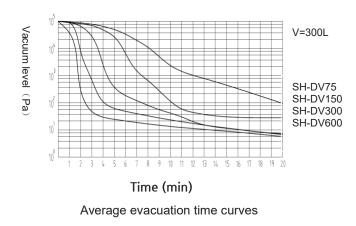
- Wide product line up.
- No oil back diffusion or exhaust.
- Can be repeatedly continuous operated between atmospheric and vacuum.
- Low vibration, low noise and high efficiency.
- Ease of maintenance.

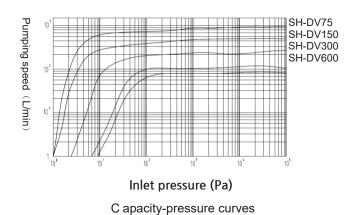
Specifications

N	/lodel		SH-DV75	SH-DV150	SH-DV300	SH-DV600		
	FOLI-	m³/h 3.6		7.2	15.5	31.3		
Displacement	50Hz	cfm	2.2	4.3	9.3	18.7		
Displacement	60Hz	m³/h	4.3	8.6	18.3	37.4		
	60HZ	cfm	2.5	5.1	10.9	22.3		
Ultimate P	ressure	Torr	≤6.0×10 ⁻²	≤4.0×10 ⁻²	≤1.9×10 ⁻²	≤7.5×10 ⁻³		
Noise L	evel	dB(A)	≤52	≤57	≤60	≤61		
Ambient Opera	ation Temp.	°c	3	3	8x10 ⁻¹ Pa	8x10 ⁻¹ Pa		
Inlet/Exh	naust Flange		KF 16/25	KF 16/25	KF 25	KF 16/40		
	Motor Power	kW	0.25	0.25	0.75	0.75		
Motor 1 phase	Voltage	VAC	50~ 60Hz/110 ~ 115 or 200 ~ 230					
	Speed	rpm	50Hz /1 425; 60Hz /1725					
	Motor Power	kW	-	0.25	0.55	0.75		
Motor 3 phase	Voltage	VAC	-	50 Hz/200 ~ 230 or 380 ~ 415; 60 Hz/200 ~ 230 or 460				
	Speed	rpm	-	501	Hz /1425; 60Hz /1	725		
No+ Maight	1 phase	kg	15	18	27	31		
Net Weight	3 phase	kg	-	20	31	38		
С	Others			With air flush				

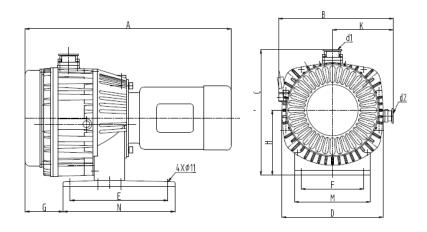


Performance curves





Dimension



	Dimensions												
Model	А	В	C	D	E	F	G	Н	М	N	K	d1	d2
SH-DV75	405	225	260	200	192	114	72	131	146	225	125	KF25	KF16
SH-DV150	430	250	280	220	214	129	86	130	155	250	135	KF25	KF16
SH-DV300	492	268	324	226	252	163	87	174	192	288	140	KF25	KF16
SH-DV600	530	312	343	275	252	170	115	178	206	288	165	KF40	KF16



Memo		



Memo		





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