HITACHI
Inspire the Next

HITACHI High-Pressure Blower
Vortex Blower

**No oil fume, low noise,
energy saving and dual function of suction and discharge**

E SERIES
Volume Type

G SERIES
High-Pressure
Compact Type

DN SERIES
Wear-Resistant
Type

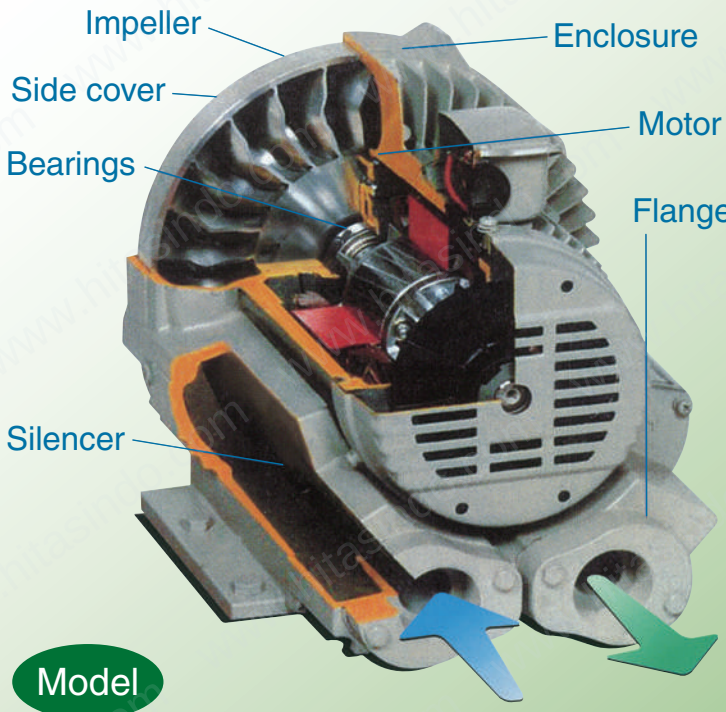






Hitachi Industrial Equipment Systems Co.,Ltd.

Hitachi Vortex Blower demonstrat
in a wide range of application eith
in suction (negative pressure) or



Model

Structure and Characteristics;

1. Smooth air flowing in the tube
   - High efficiency
   - Low noise
2. Cooling the surface of cabinet by cooling air generated by motor.
3. One-way closed clearance to prevent contact with the turbine blades (Simple adjustment of clearance).
4. Clockwise and counterclockwise rotation of motor at the same air volume (E Series)



High-Pressure Compact Type G Series

For suction of case packer, soldering machine, woodworking machine, etc.
For underwater blowing in Jacuzzi bath, etc.

- High pressure, low-noise, compact type adopting three-dimensional impeller
- Applicable in full range to shutoff

Output 70W～2.2kW



Volume Type E Series

For suction and blowing-off of dust collector, pneumatic transportation, printing machine, washing machine

- For pneumatic power source in various industries

Output 100W～11kW

es its power
ner
discharge (positive pressure).



Low-Noise Type E Series

For installation environment where low noise is required

- Low-noise type with large volume employing original structure
- Lower noise by 4 ~ 7dB in comparison with Volume Type E Series

Output 0.4kW～3.0kW



Wear-Resistant Type DN Series

Suitable for a wide range of applications, including removing dust and drops of water from printed circuit boards, etc.

- For relatively dusty or dirty sites

Output 0.4kW～2.0kW



High-Pressure 2-Stage Type

For underwater blowing in plating tank, purifying tank, etc.

- Suitable for long piping at high pressure

Output 4.0kW, 8.0kW



Large-Volume Twin Type E Series

For feeding air during tunnel construction

- Suitable for long piping at high pressure

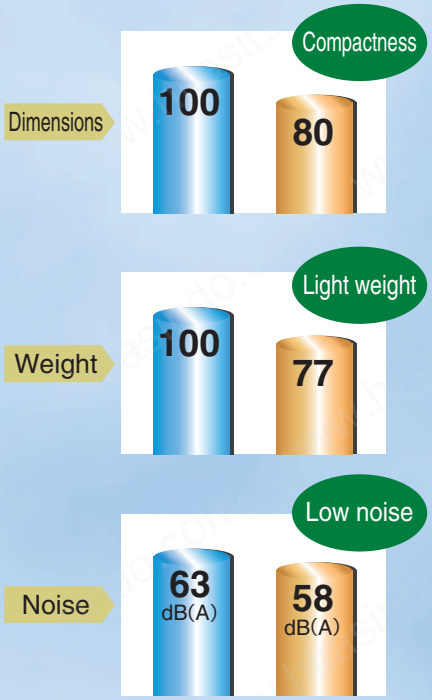
Output 22kW

Wide lineup of products meets customers needs

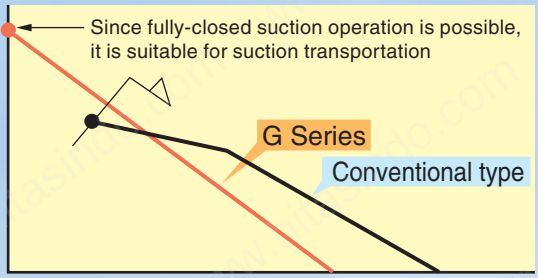
G SERIES



Compactness and high pressure thanks to the adoption of three-dimensional blade impeller



Fully-closed suction operation





Three-dimensional blade impeller

DN SERIES



- Equipped with a peripheral open-type impeller that is resistant to dust and dirt, for superior durability in any environment.
- Compact structure requires minimal installation space.
- As a clean air source, can be used for discharge or suction, and is suitable for a wide range of applications.



Open-type impeller

E SERIES



- A wide range of models from 100W to 11kW
- Compactness/light weight because of aluminum housing motor (8% reduction in comparison with the conventional type)
- Improved reliability thanks to urea grease bearings superior in heat resistance
- Equipped with radial vane impeller enough to produce large volume.



Radial vane impeller

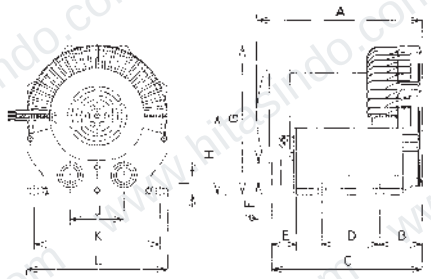
G SERIES

High-pressure compact Type

Featuring compactness, powerfulness, and low noise, it is suitable for a wide range of application.

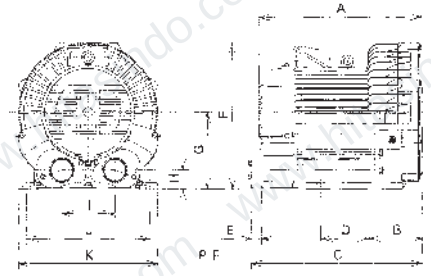
Dimensional outline drawing

VB-70W (S) -G～VB-003 (S) -G



MODEL	A	B	C	D	E	F	G	H	I	J	K	L
VB-70W (S) -G	216.5	83	204	—	28	32	185	102.5	30	75	165	188
VB-001 (S) -G	223	92	205	—	43	25.5	185	98.5	35	75	165	188
VB-002 (S) -G	240	70.5	220	76	43	32.5	211	113	35	80	190	215
VB-003 (S) -G	249.5	79	223	76	43	40.5	223.5	119.5	35	70	190	215

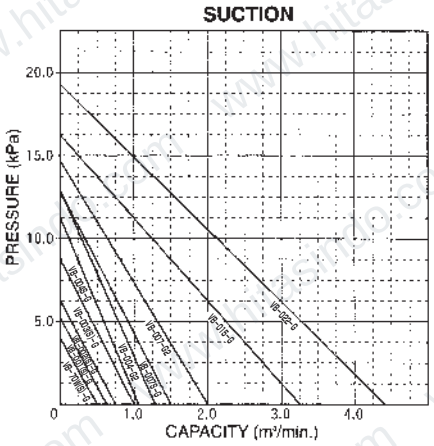
VB-004 (S) -G～VB-002 (S) -G

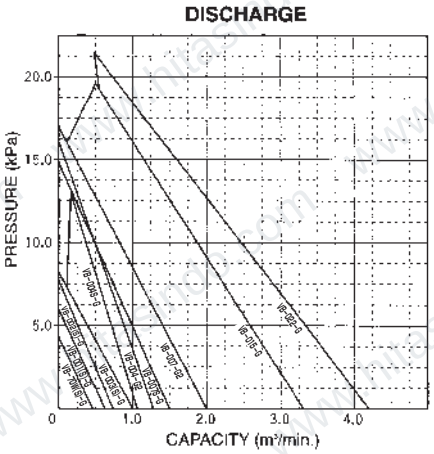


MODEL	A	B	C	D	E	F	G	H	I	J	K	L
VB-004 (S) -G (2)	263	99	285	83	20	241	128	35	85	205	230	G1 1/4
VB-007 (S) -G (2)	310	112	319	95	20	270	143	45	95	225	255	G1 1/2
VB-015-G2	345	127	362.8	115	20	313	163.5	45	110	260	295	G1 1/2
VB-022-G2	385	126	390	140	25	339	179	50	116	290	324	G1 1/2

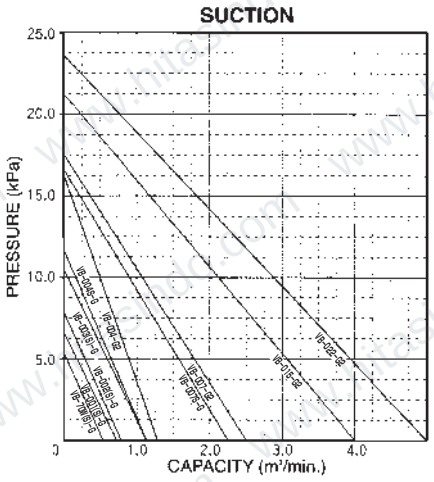
Characteristic drawing

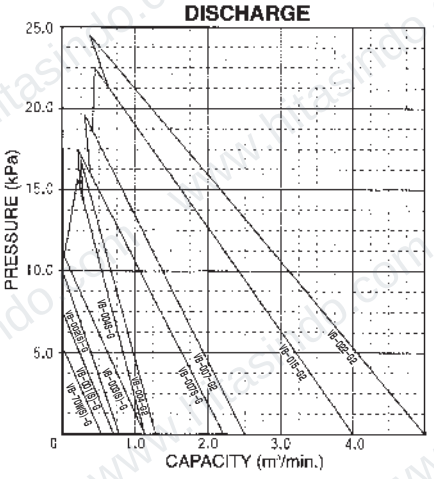
50Hz





60Hz





Standard specifications

Model	Phase	Voltage (V)	Poles	Suction		Discharge		Max. capacity (m³/min.)	Noise dB (A)
				Max. operating					
				Pressure (kPa)	Output (kW)	Pressure (kPa)	Output (kW)		
				50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
VB-70WS-G	1	220	2	4.0/ 5.4	0.05 /0.075	4.2/ 5.6	0.055/0.085	0.45 / 0.5	45/47
VB-001S-G	1	220	2	5.4/ 6.9	0.08 /0.12	5.9/ 7.4	0.090/0.135	0.6 / 0.7	48/52
VB-002S-G	1	220	2	7.6/ 9.3	0.1 /0.2	8.1 / 9.8	0.145 /0.210	0.7 / 0.8	52/55
VB-003S-G	1	220	2	8.8/ 10.3	0.19 /0.28	9.3/ 10.9	0.203/0.300	1.0 / 1.15	53/57
VB-004S-G	1	220	2	11.8/ 14.7	0.33 /0.52	14.2/ 15.7	0.41 /0.58	1.1 / 1.3	54/58
VB-007S-G	1	220	2	12.7/ 16.7	0.51 /0.7	14.7/ 17.7	0.55 /0.77	2.0 / 2.4	60/63
VB-70W-G	3	380	2	4.0/ 5.4	0.04 /0.071	4.2/ 5.6	0.048/0.083	0.45 / 0.5	45/47
VB-001-G	3	220/380	2	5.4/ 6.9	0.07 /0.01	5.9/ 7.4	0.080/0.113	0.6 / 0.7	48/52
VB-002-G	3	220/380	2	7.6/ 9.3	0.125/0.195	8.1 / 9.8	0.130 /0.200	0.7 / 0.8	52/55
VB-003-G	3	220/380	2	8.8/ 10.3	0.185/0.28	9.3/ 11.9	0.198 /0.300	1.0 / 1.15	53/57
VB-004-G2	3	220/380	2	12.7/ 16.2	0.38 /0.55	15.7/ 17.2	0.49 /0.65	1.3 / 1.3	54/58
VB-007-G2	3	220/380	2	14.7/ 17.6	0.54 /0.78	16.7/ 20.5	0.6 /0.92	2.6 / 2.4	60/63
VB-015-G2	3	220/380	2	16.1/ 21.1	1.2 /1.7	19.6/ 22.5	1.4 /1.8	3.3 / 4.0	64/69
VB-022-G2	3	220/380	2	19.6/ 23.5	1.6 /2.3	21.6/ 24.5	2.1 /2.5	4.1 / 4.8	63/72

Notes)
1) The performance value are at suction conditions of 20℃ and 1,013hPa
2) Name plate value = Suction data

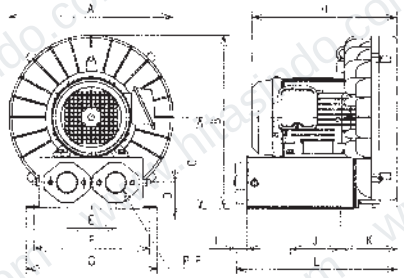
E SERIES

Volume Type

Demonstrating its power for such application as blowing-off by large volume

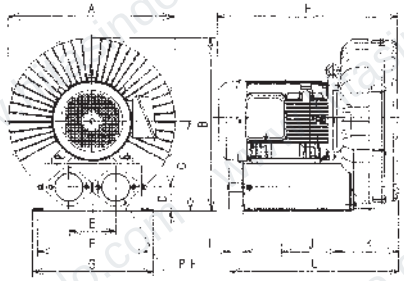
Dimensional outline drawing

VB-004～040-E2・EN



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	PF
VB-004-E3	281	301	161	46	85	205	230	256	25	83	101	287	G1/4
VB-007-E3	316	338	180	51	95	225	255	286	25	95	113.5	296.5	G1/2
VB-020-E3	371	390	204	57	110	260	295	328	25	115	132	362	G1/2
VB-030-EN	398	426	226	60	116	290	325	333	30	140	126	390	G2
VB-040-EN	424	453	241	64	125	300	335	375	30	140	151	415	G2

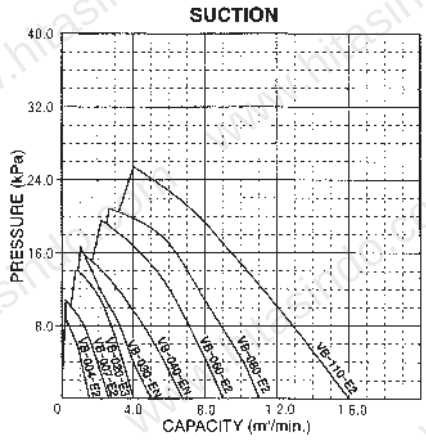
VB-060～110-E2



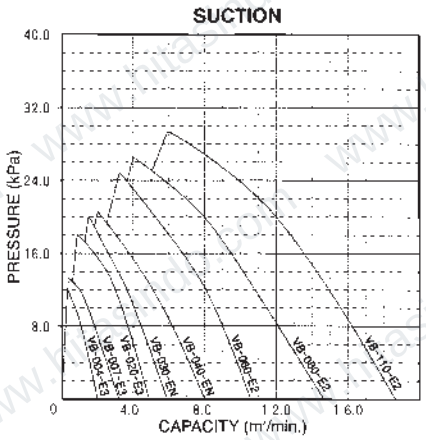
MODEL	A	B	C	D	E	F	G	H	I	J	K	L	PF
VB-060-E2	475	518	281	74	145	340	375	492	30	140	179	492	G21/2
VB-080-E2	515	538	281	74	145	340	375	556	40	178	185	520	G3
VB-110-E2	565	606	324	81	160	375	410	643	40	210	210	634	G3

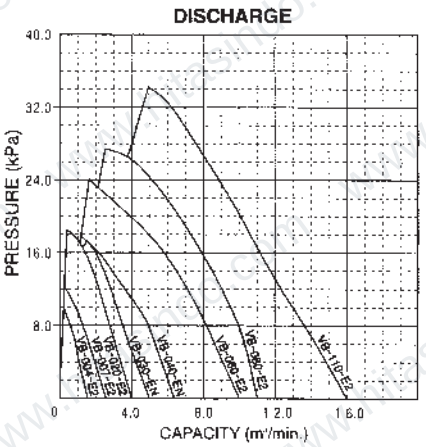
Characteristic drawing

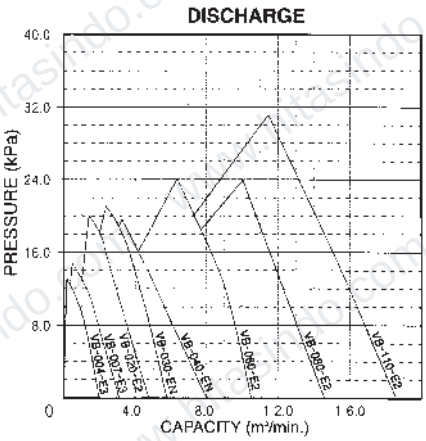
50Hz



60Hz







Standard specifications

Model	Phase	Voltage (V)	Poles	Suction		Discharge		Max. capacity (m^3/min.)	Weight (Kg)
				Max. operating					
				Pressure (kPa)	Output (kW)	Pressure (kPa)	Output (kW)		
				50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	
VB-004-E3	3	220/380	2	9.2/12.2	0.33/ 0.48	10.2/12.7	0.38/ 0.56	1.7/ 2.0	15.5
VB-007-E3	3	220/380	2	10.8/13.3	0.59/ 0.78	12.3/13.5	0.67/ 0.9	2.6/ 3.1	19.5
VB-020-E3	3	220/380	2	17.0/19.5	1.4 / 2.1	20.0/20.0	1.7 / 2.2	3.7/ 4.2	34.0
VB-030-EN	3	220/380	2	17.2/20.1	1.8 / 2.7	19.4/21.1	2.0 / 2.8	5.0/ 5.8	40.0
VB-040-EN	3	220/380	2	16.2/20.6	2.1 / 3.3	18.0/19.6	2.4 / 3.5	6.7/ 8.0	50.5
VB-060-E2	3	220/380	2	19.6/25.0	4.0 / 6.2	24.0/24.0	5.0 / 6.8	9.6/10.5	84.0
VB-080-E2	3	220/380	2	21.1/25.5	5.7 / 8.8	27.4/24.5	7.2 / 9.0	11.0/14.5	109
VB-110-E2	3	220/380	2	25.5/29.4	8.8 /12.5	33.3/31.4	11.6 /14.8	16.0/18.5	147

Notes)
1) The performance value are at suction conditions of 20℃ and 1,013hPa
2) Name plate value = Suction data
3) Specifications are subject to change without notice. *Mark is design value.