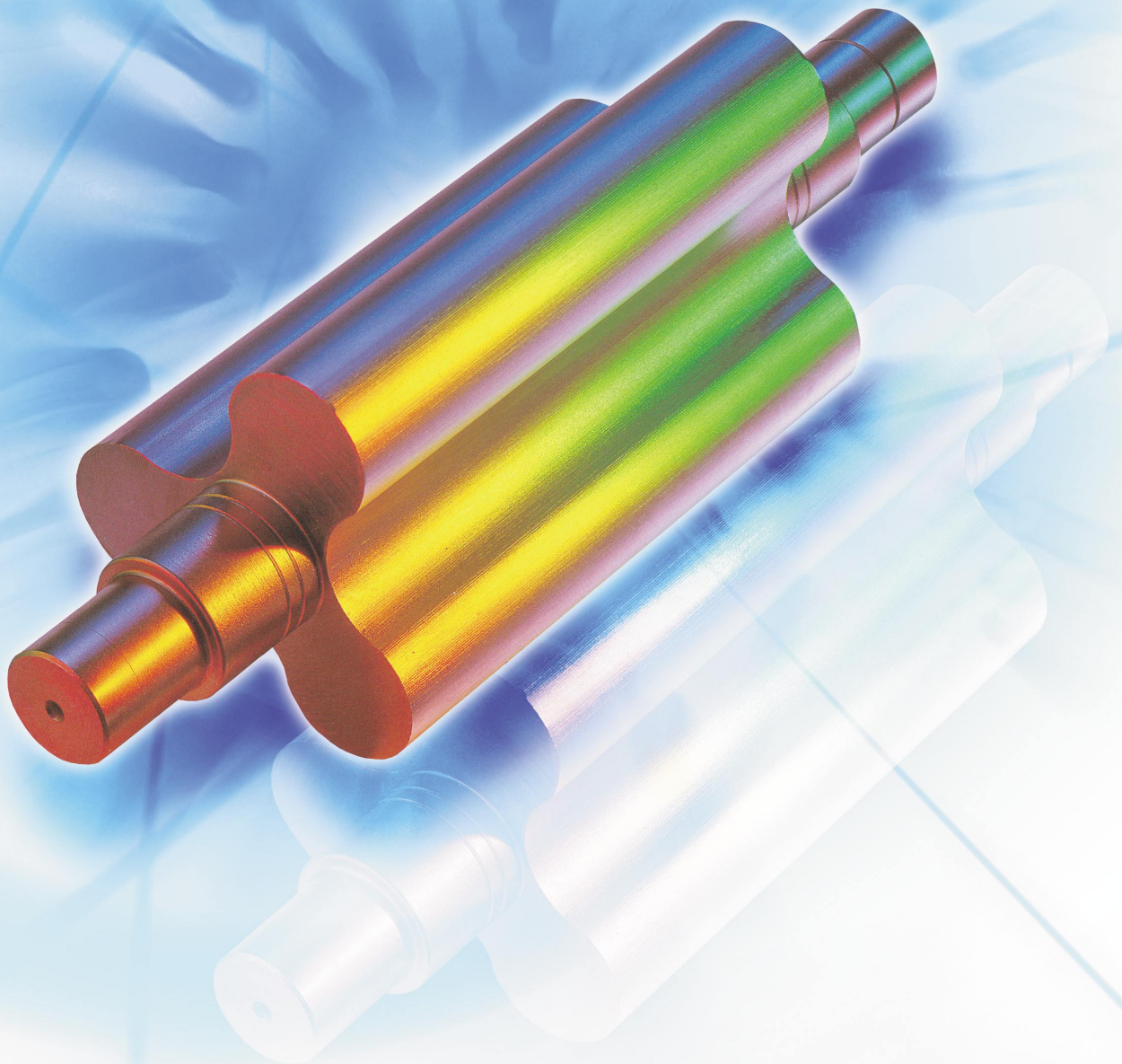


# ANLET

## ANLET 3 LOBES BLOWER & VACUUM PUMP



**ANLET CO., LTD.**

## ■ Three-Lobes Blower

Initially, nearly all blowers were of the two-lobed type, and although the design of the three-lobed type was understood to offer the advantages lower noise and vibration as well as greater efficiency, construction was difficult. Anlet alone has been able to produce high-performance yet low-cost blowers using a patented three-lobe rotor machining tool.

## ■ ANLET Blower

1. The three-lobes blower with helical casing offers a virtually no noise, no vibration operation.
2. There is no oil mixing, so the air obtained is clean, with no spraying of oil mist to soil the environment.

3. The rotor and shaft have been combined as a single unit, and because there is no wear, the performance of the blower does not change over time, permitting long-term continuous operation.
4. High-speed, high performance applications are possible.
5. Design is simple and compact. The special bearings ensure outstanding durability and maintenance is easy to conduct.
6. The unit is equipped with a gear oil overshooter, to prevent any oil leakage problems.
7. The device can be used in conditions ranging from strong vacuum to high pressure.
8. Land and submersible types have been produced to meet required application.
9. Small quantities of slurry or water mixtures do not adversely effect the blower.
10. Strong vacuum possible even with wet type, much less water required.

## ■ Operating Principle

The blower is a displacement blower, and sends a fixed amount of air in proportion to its rotation speed. With the three-lobed rotors, the two rotors make six intake and exhaust cycles per revolution, and because the air has less pulses than with the two-lobed type, fluctuations in load are small, mechanical strength is high, and less noise and vibration are generated.

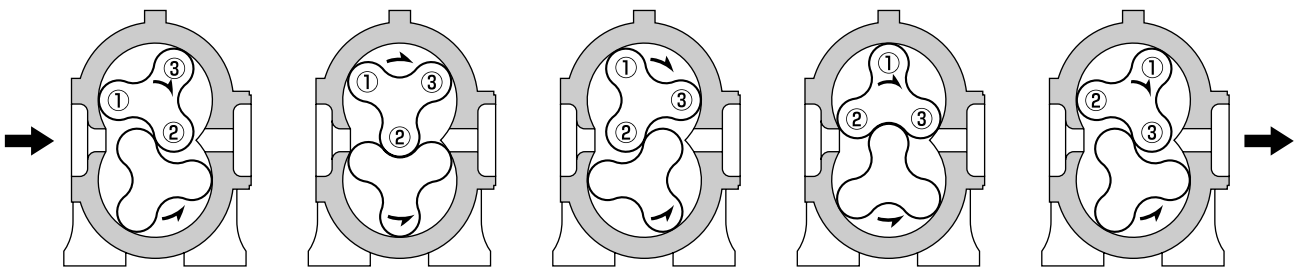
Figure I shows the operation principle.

While the two three-lobed rotors mounted on two parallel shafts maintain only a very small clearance between themselves and the inner surface of the oval casing operating cham-

ber and between each other, they are rotated in opposite directions at an equal speed, moving a fixed volume of the air enclosed by the casing and rotors from the intake side to the output side.

Because each rotor phase is synchronized correctly by a timing gear, there is no contact. The permits high speed and eliminates the need for internal lubrication. Moreover, the simple design, easy handling, and stable performance make possible a wide range of applications.

Fig.I

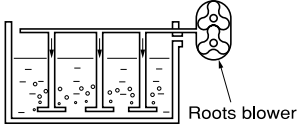
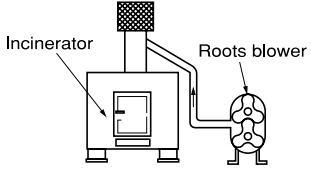
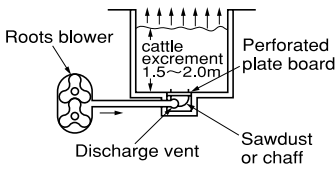
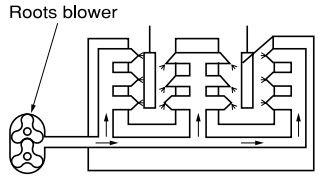
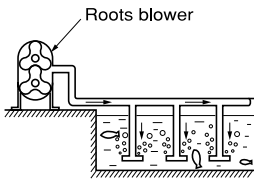
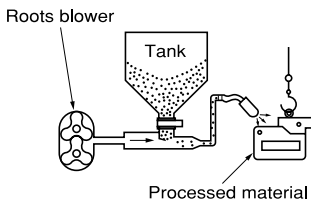
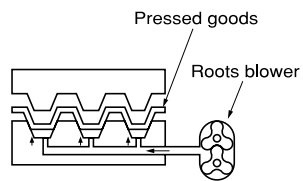
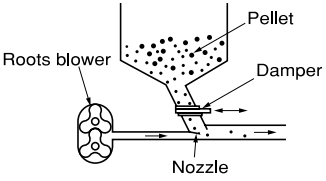


## ■ Conversion Chart for SI Units

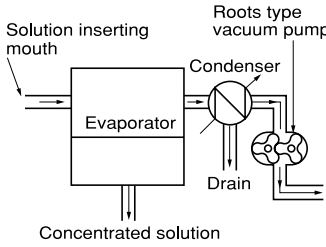
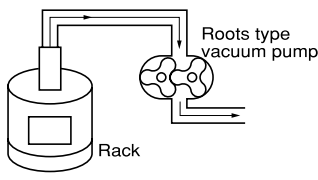
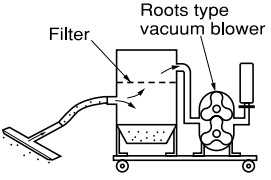
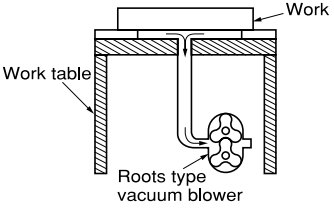
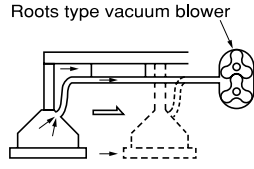
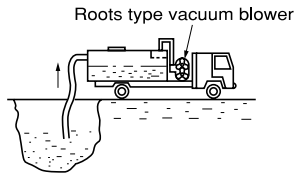
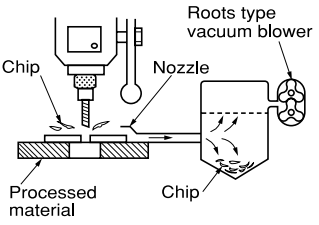
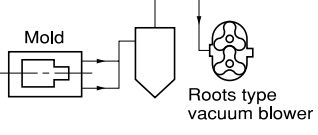
(SI units are enclosed by hold lines)

Pa	kPa	MPa	bar	kgf/cm <sup>2</sup>	atm	mmH <sub>2</sub> O (mmAq)	mmHg or Torr	psi
1	1×10 <sup>-3</sup>	1×10 <sup>-6</sup>	1×10 <sup>-5</sup>	1.019 72×10 <sup>-5</sup>	9.869 23×10 <sup>-6</sup>	1.019 72×10 <sup>-1</sup>	7.500 62×10 <sup>-3</sup>	1.449×10 <sup>-4</sup>
1×10 <sup>5</sup>	1×10 <sup>2</sup>	1×10 <sup>-1</sup>	1	1.019 72	9.869 23×10 <sup>-1</sup>	1.019 72×10 <sup>4</sup>	7.500 62×10 <sup>2</sup>	14.491
9.806 65×10 <sup>4</sup>	9.806 65×10	9.806 65×10 <sup>-2</sup>	9.806 65×10 <sup>-1</sup>	1	9.678 41×10 <sup>-1</sup>	1×10 <sup>4</sup>	7.355 59×10 <sup>2</sup>	14.211
1.013 25×10 <sup>5</sup>	1.013 25×10 <sup>2</sup>	1.013 25×10 <sup>-1</sup>	1.013 25	1.033 23	1	1.033 23×10 <sup>4</sup>	7.600 00×10 <sup>2</sup>	14.683
9.806 65	9.806 65×10 <sup>-3</sup>	9.806 65×10 <sup>-6</sup>	9.806 65×10 <sup>-5</sup>	1×10 <sup>-4</sup>	9.678 41×10 <sup>-5</sup>	1	7.355 59×10 <sup>-2</sup>	1.421×10 <sup>-3</sup>
1.333 22×10 <sup>2</sup>	1.333 22×10 <sup>-1</sup>	1.333 22×10 <sup>-4</sup>	1.333 22×10 <sup>-3</sup>	1.359 51×10 <sup>-3</sup>	1.315 79×10 <sup>-3</sup>	1.359 51×10	1	1.932×10 <sup>-2</sup>

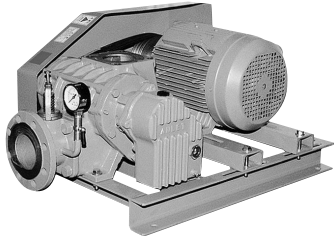

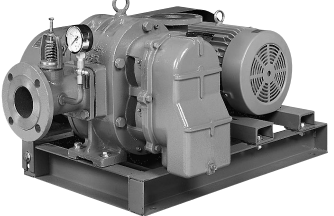

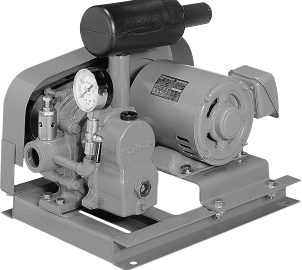
## ● Example of usage at discharging model ●

Water treatment	Incinerator	Composting through fermentation of cattle excrement	Blowing away after the wash
 <p>Used for water purification at the water treatment plant and stirring of sediment.</p>	 <p>Enhance combustion and assist elimination of exhaust gas.</p>	 <p>Advancing the speed of fermentation of cattle excrement by blowing air to it to produce compost.</p>	 <p>Used for flicking water after the washing.</p>
Oxygen supply to the aquafarm pool	Sand blast	Press machinery	Transport of powder and granular material
 <p>Used for supplying oxygen to the water in the aquafarm pool of various fish and for stirring. Also used at the aquarium and fish tanks.</p>	 <p>Used as blasting air source of the sand blast.</p>	 <p>Used for removing pressed form material from the mold.</p>	 <p>Used for pneumatic transport of pellet type material such as vinyl chloride and polyethylene. (Suction method also available)</p>

## ● Example of usage at vacuum model ●

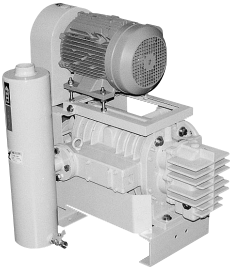
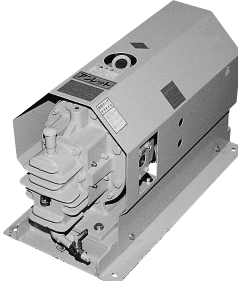
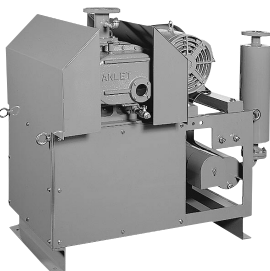

Vacuum drying for water washer	Vacuum food packing	Vacuum cleaner	Preservation of processed goods
 <p>Used for vacuum drying of water.</p>	 <p>Used for packing perishable food such as vegetable and meat.</p>	 <p>Widely used as general industrial vacuum cleaner and dust collector as well as on-vehicle equipment.</p>	 <p>Small non-magnetic objects such as wood chips and plastics can be fixed to the work table.</p>
Absorption carrier	Vacuum car	Elimination of shaved chips	Vacuum casting
 <p>Heavy objects such as steel plate and fragile objects such as glass can be carried through absorption. It leads to labor saving without taking clamping procedure.</p>	 <p>Can be used to clean sludge and sewage and for transporting of powder and granular material.</p>	 <p>Powder and chips of plastic which are produced during processing can be collected.</p>	 <p>Used as source of vacuum for V process casting.</p>

[Discharging model]

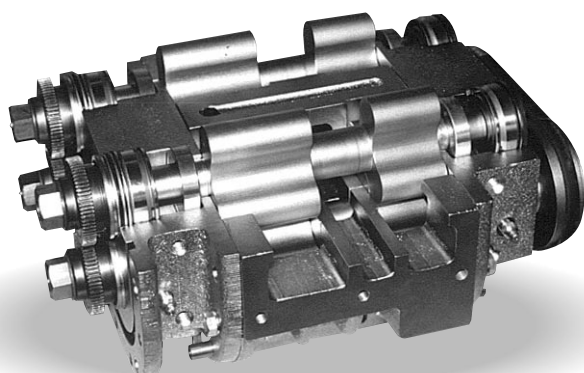
<p><b>BE(-E) Type</b> P5 · 6</p>		<p>Normal pressure : 0~60kPa Bore : 50·65·80·100· 125·150·200·250· 300·350·400mm</p>
<p><b>BH Type</b> P7 · 8</p>		<p>Normal pressure : 0~60kPa Bore : 50·65·80·100· 125·150·200·250· 300·350mm</p>
<p><b>BS Type</b> P9 · 10</p>		<p>Normal pressure : 0~60kPa Bore : 32·40·50·65·80· 100·125·150· 200·250·300mm</p>
<p><b>BWH Type</b> P11 · 12</p>		<p>Normal pressure : 0~60kPa Bore : 25·32·40·50·65· 80·100·125mm</p>
<p><b>BSS Type</b> P13</p>		<p>Normal pressure : 0~50kPa Bore : 20·25·32·40mm</p>



**[Vacuum model]** Air cooled type, no-discharge operation OK.

<p><b>FT2 Type</b> P14</p>		<p>Ultimate pressure : 2.7kPa Designed exhaust speed : 20·45·80·150m<sup>3</sup>/H</p>
<p><b>FT3 Type</b> P15</p>		<p>Ultimate pressure : 100Pa Designed exhaust speed : 25·40·50m<sup>3</sup>/H</p>
<p><b>FT3-L Type</b> P16</p>		<p>Ultimate pressure : 100Pa Designed exhaust speed : 60·100·200·350·700m<sup>3</sup>/H</p>
<p><b>FT4 Type</b> P17</p>		<p>Ultimate pressure : 10Pa Designed exhaust speed : 50·65·150·200·300·450m<sup>3</sup>/H</p>

\* Also available are for high pressure, high vacuum, etc. Please contact us for any inquiries.

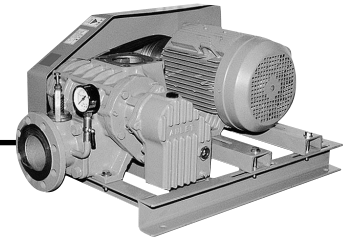


## ● Selecting a machine model

The following information are needed for choosing the model :

- Application : 1) Vacuum or 2) Blower
- For Air or Gas ? If gas, we need more details such as :
  - Name
  - Corrosive or explosion ?
  - Gravity of mix gas
- Pressure (kPa, mmAq, mmHg, etc.....)
- Capacity (m<sup>3</sup>/min, m<sup>3</sup>/hr, l/min, etc.....)
- Installation (indoor or outdoor)
- Motor
  - Type
  - Output
  - Voltage
  - Hz
  - Pole
- Others
  - Temperature
  - Cooling water
  - Operation time
  - Accessories
  - Spare parts
  - Color

# BE(-E) Type



■ Performance Chart (1m<sup>3</sup>/min≒35.315CFM)

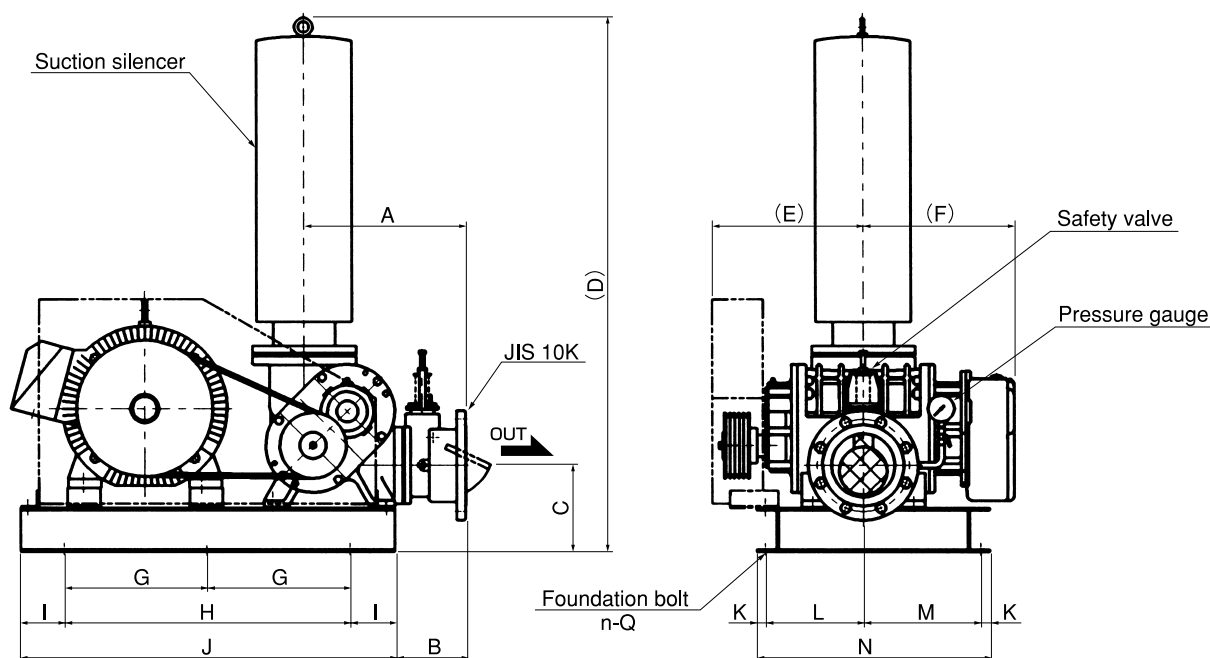
Model	Bore	min <sup>-1</sup>	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW
BE 50E	2B	2200	1.40	0.7	1.31	1.0	1.22	1.2	1.13	1.5	1.04	1.9		
		2500	1.66	0.8	1.57	1.1	1.48	1.4	1.39	1.8	1.30	2.2		
		2750	1.87	0.9	1.78	1.2	1.69	1.6	1.60	2.0	1.51	2.5		
		3050	2.12	1.0	2.03	1.4	1.94	1.8	1.85	2.3	1.76	2.7		
		3300	2.34	1.0	2.25	1.5	2.16	1.9	2.07	2.4	1.98	2.9		
		3600	2.59	1.1	2.50	1.6	2.41	2.1	2.32	2.6	2.23	3.2		
BE 65E	2½B	2000	2.37	0.9	2.33	1.3	2.29	1.8	2.25	2.2	2.21	2.8	2.17	3.3
		2200	2.65	1.0	2.61	1.5	2.57	2.0	2.53	2.5	2.49	3.1	2.45	3.7
		2400	2.93	1.1	2.89	1.6	2.85	2.2	2.81	2.8	2.77	3.4	2.73	4.0
		2600	3.21	1.2	3.17	1.8	3.13	2.4	3.09	3.0	3.05	3.7	3.01	4.4
		2800	3.49	1.3	3.45	2.0	3.41	2.6	3.37	3.3	3.33	4.0	3.29	4.7
		3000	3.77	1.4	3.73	2.1	3.69	2.8	3.65	3.5	3.61	4.3	3.57	5.1
BE 80E	3B	2000	3.48	1.3	3.40	2.0	3.32	2.7	3.24	3.4	3.16	4.2	3.08	5.0
		2200	3.92	1.4	3.84	2.2	3.76	3.0	3.68	3.8	3.60	4.6	3.52	5.4
		2400	4.36	1.6	4.28	2.4	4.20	3.3	4.12	4.2	4.04	5.1	3.96	6.0
		2600	4.80	1.7	4.72	2.6	4.64	3.6	4.56	4.5	4.48	5.6	4.40	6.6
		2800	5.24	1.9	5.16	2.9	5.08	3.9	5.00	5.0	4.92	6.1	4.84	7.2
		3000	5.68	2.0	5.60	3.1	5.52	4.2	5.44	5.4	5.36	6.6	5.28	7.8
BE100E	4B	2000	5.63	2.0	5.48	3.1	5.34	4.2	5.19	5.3	5.05	6.4	4.90	7.6
		2200	6.28	2.2	6.13	3.4	5.99	4.6	5.84	5.8	5.70	7.0	5.55	8.3
		2400	6.92	2.5	6.77	3.7	6.63	5.0	6.48	6.3	6.34	7.6	6.19	9.0
		2600	7.56	2.8	7.41	4.1	7.27	5.5	7.12	6.9	6.98	8.3	6.83	9.8
		2800	8.20	3.1	8.05	4.6	7.91	6.1	7.76	7.6	7.62	9.2	7.47	10.8
		3000	8.84	3.3	8.69	5.0	8.55	6.6	8.40	8.3	8.26	10.0	8.11	11.8
BE125E	5B	1750	8.79	2.8	8.69	4.6	8.59	6.5	8.49	8.3	8.39	10.2	8.29	12.0
		2000	10.3	3.1	10.2	5.2	10.1	7.4	10.0	9.5	9.90	11.7	9.80	13.8
		2250	11.8	3.6	11.7	6.0	11.6	8.4	11.5	10.8	11.4	13.2	11.3	15.6
		2550	13.6	4.2	13.5	6.9	13.4	9.6	13.3	12.3	13.2	15.1	13.1	17.9
		2750	14.8	4.7	14.7	7.6	14.6	10.6	14.5	13.5	14.4	16.5	14.3	19.5
		3000	16.3	5.2	16.2	8.3	16.1	11.5	16.0	14.8	15.9	18.1	15.8	21.4
BE150E	6B	1550	17.5	4.9	17.2	8.4	16.9	11.9	16.6	15.3	16.3	18.7	16.0	22.1
		1800	20.7	6.0	20.4	10.0	20.1	14.0	19.8	18.0	19.5	22.0	19.2	25.9
		2050	23.9	7.1	23.6	11.6	23.3	16.2	23.0	20.7	22.7	25.2	22.4	29.7
		2300	27.1	8.2	26.8	13.3	26.5	18.4	26.2	23.4	25.9	28.5	25.6	33.6
		2550	30.3	9.2	30.0	14.8	29.7	20.5	29.4	26.2	29.1	31.8	28.8	37.5
BE200	8B	1450	32.0	9.1	30.9	15.2	29.8	21.5	28.8	28.0	27.9	34.7	27.1	41.7
		1600	35.8	10.3	34.7	16.9	33.6	23.8	32.6	31.0	31.7	38.4	30.9	46.2
		1750	39.7	11.6	38.6	18.7	37.4	26.2	36.5	34.0	35.6	42.2	34.2	50.8
		1900	43.5	13.1	42.4	20.7	41.3	28.7	40.3	37.1	39.4	46.0	38.6	55.5
		2050	47.4	14.7	46.2	22.8	45.1	31.2	44.1	40.6	43.2	50.2	42.4	60.4
		2200	51.2	16.5	50.1	25.0	48.9	34.0	48.0	44.0	47.1	54.5	46.2	65.5
BE250	10B	1300	54.7	18.7	54.0	28.4	53.3	38.2	52.6	48.6	51.9	58.5	51.2	68.9
		1450	61.6	21.1	60.9	32.0	60.2	43.1	59.5	54.7	58.8	65.7	58.1	77.3
		1600	68.6	23.5	67.9	35.5	67.2	48.0	66.5	60.9	65.8	73.0	65.1	85.9
		1750	75.5	25.8	74.8	39.0	74.1	53.0	73.4	67.0	72.7	80.2	72.0	94.3
		1900	82.5	28.2	81.8	42.6	81.1	57.9	80.4	73.1	79.7	87.5	79.0	103
BE300	12B	1300	73.5	20.3	72.5	35.5	71.5	50.7	70.5	65.8	69.5	81.0	68.5	96.1
		1450	83.3	23.5	82.3	40.5	81.3	57.4	80.3	74.2	79.3	91.2	78.3	108
		1550	89.9	26.1	88.9	44.1	87.9	62.2	86.9	80.2	85.9	98.2	84.9	116
		1650	96.4	28.6	95.4	47.9	94.4	67.1	93.4	86.4	92.4	106	91.4	125
		1750	103	31.4	102	51.8	101	72.2	100	92.6	99.0	113	98.0	133
BE350	14B	1200	109	27.5	107	48.2	106	68.8	104	89.5	103	110	101	131
		1300	119	31.0	117	53.6	116	76.2	114	98.8	113	121	111	144
		1400	129	34.5	127	59.0	126	83.7	124	108	123	132	121	157
		1500	139	38.0	137	64.5	136	91.1	134	117	133	144	131	170
		1600	149	41.5	147	69.9	146	98.6	144	127	143	155	141	183
		1700	159	45.0	157	75.3	156	106	154	136	153	166	151	196

# BE(-E) Type

Model	Bore	min <sup>-1</sup>	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW
BE400	16B	900	161	42	159	73	157	104	155	135	153	166	151	196
		1000	181	48	179	82	177	117	175	151	173	185	171	220
		1100	201	54	199	92	197	129	195	167	193	205	191	243
		1200	220	60	218	101	216	142	214	184	212	225	210	268
		1300	240	68	238	112	236	157	234	201	232	246		
		1400	260	76	258	124	256	172	254	220				

section indicates water cooled housing and gear cover

## Outline Drawing



unit : mm

Model	Bore	A	B	C	D	E	F	G	H	I	J	K	L	M	N	n	Q	Weight (kg)
BE 50E	2B	217	100	132	631	235	230	—	450	50	550	18	156	128	320	4	M12	60
BE 65E	2½B	272	132	142	826	225	220	—	550	50	650	18	128	171	335	4	M12	85
BE 80E	3B	277	123	152	908	270	260	—	600	50	700	18	164	250	450	4	M12	115
BE100E	4B	342	153	187	1061	250	275	—	600	100	800	20	133	312	485	4	M12	155
BE125E	5B	367	163	197	1215	345	345	—	650	100	850	20	223	267	530	4	M12	195
BE150E	6B	412	178	212	1296	475	455	—	850	100	1050	20	320	220	580	4	M12	320
BE200	8B	532	209	262	2010	485	495	475	950	150	1250	30	300	320	680	6	M12	590
BE250	10B	667	315	297	2090	600	595	575	1150	150	1450	30	389	331	780	6	M12	880
BE300	12B	842	421	322	2530	640	630	625	1250	150	1550	30	421	339	820	6	M16	1210
BE350	14B	817	333	414	3120	820	764	725	1450	150	1750	35	785	425	1280	6	M16	1900
BE400	16B	1072	510	449	3325	1000	953	925	1850	150	2150	35	965	465	1500	6	M18	2900

- Weight shown covers the blower with standard accessories without motor
- Standard accessories: Suction silencer • Safety valve • V-pulley • V-belt • Pressure gauge  
Base • Belt cover • Check valve (BE50E~150E)

# BH Type



## Performance Chart (1m<sup>3</sup>/min≒35.315CFM)

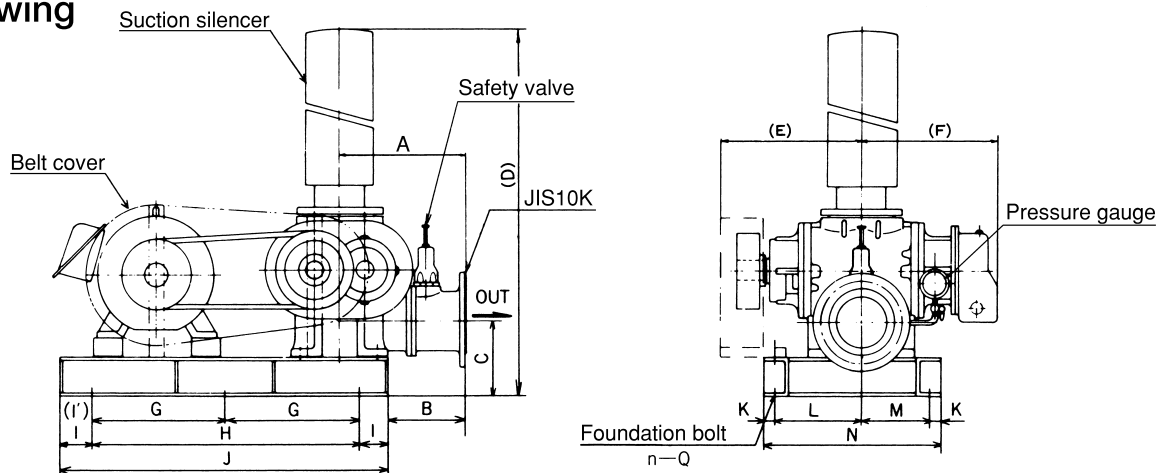
Model	Bore	min <sup>-1</sup>	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW
BH 50	2B	1150	1.50	0.7	1.33	1.0	1.18	1.4	1.04	1.7	0.91	2.0	0.79	2.4
		1250	1.68	0.8	1.51	1.2	1.36	1.5	1.22	1.8	1.09	2.2	0.97	2.6
		1350	1.86	0.9	1.69	1.3	1.54	1.7	1.40	2.0	1.27	2.4	1.15	2.8
		1400	1.95	0.9	1.78	1.3	1.63	1.7	1.49	2.1	1.36	2.5	1.24	2.9
		1550	2.22	1.0	2.05	1.5	1.90	1.9	1.76	2.3	1.63	2.7	1.51	3.2
		1700	2.49	1.1	2.32	1.6	2.17	2.1	2.03	2.5	1.90	3.0	1.78	3.5
BH 65	2½B	1150	1.95	0.8	1.67	1.2	1.45	1.7	1.27	2.1	1.14	2.6		
		1250	2.20	0.9	1.92	1.3	1.70	1.9	1.52	2.4	1.39	2.9	1.29	3.5
		1400	2.58	1.0	2.30	1.5	2.08	2.1	1.90	2.7	1.77	3.3	1.67	3.9
		1550	2.95	1.2	2.67	1.7	2.45	2.3	2.27	3.0	2.14	3.7	2.04	4.4
		1700	3.33	1.3	3.05	1.9	2.83	2.6	2.65	3.3	2.52	4.0	2.42	4.8
BH 80	3B	1150	3.19	1.2	3.03	1.9	2.86	2.6	2.73	3.3	2.63	4.0	2.52	4.7
		1250	3.55	1.3	3.39	2.0	3.22	2.8	3.09	3.6	2.99	4.4	2.88	5.2
		1400	4.09	1.5	3.93	2.3	3.76	3.2	3.63	4.0	3.53	4.9	3.42	5.8
		1550	4.63	1.7	4.47	2.6	4.30	3.6	4.17	4.5	4.07	5.5	3.96	6.5
		1700	5.17	1.9	5.01	2.9	4.84	4.0	4.71	5.0	4.61	6.1	4.50	7.2
BH100	4B	1100	4.02	1.8	3.81	2.6	3.62	3.4	3.44	4.3	3.27	5.3	3.11	6.3
		1300	5.02	2.2	4.81	3.0	4.62	4.0	4.44	5.1	4.27	6.3	4.11	7.4
		1450	5.78	2.4	5.57	3.4	5.38	4.5	5.20	5.7	5.03	7.0	4.87	8.3
		1550	6.28	2.6	6.07	3.6	5.88	4.8	5.70	6.1	5.53	7.5	5.37	8.9
		1750	7.28	3.1	7.07	4.2	6.88	5.6	6.70	7.0	6.53	8.6	6.37	10.1
		1950	8.28	3.4	8.07	4.7	7.88	6.2	7.70	7.9	7.53	9.6	7.37	11.4
BH125	5B	1100	6.35	2.4	6.05	3.7	5.75	5.0	5.45	6.4	5.15	7.9	4.85	9.5
		1300	7.89	2.9	7.59	4.3	7.29	5.9	6.99	7.6	6.69	9.4	6.39	11.2
		1450	9.05	3.2	8.75	4.8	8.45	6.5	8.15	8.5	7.85	10.5	7.55	12.5
		1550	9.82	3.4	9.52	5.1	9.22	7.0	8.92	9.1	8.62	11.2	8.32	13.4
		1750	11.4	4.0	11.1	5.9	10.8	8.1	10.5	10.4	10.2	12.8	9.90	15.3
		1950	12.9	4.5	12.6	6.7	12.3	9.1	12.0	11.7	11.7	14.4	11.4	17.2
BH125A	5B	1100	9.13	2.8	8.73	4.7	8.43	6.6	8.23	8.5	8.03	10.6	7.83	12.7
		1300	11.2	3.4	10.8	5.7	10.5	8.0	10.3	10.3	10.1	12.7	9.90	15.2
		1450	12.7	3.9	12.3	6.4	12.0	8.9	11.8	11.5	11.6	14.2	11.4	17.0
		1550	13.7	4.3	13.3	7.0	13.0	9.7	12.8	12.5	12.6	15.3	12.4	18.3
		1750	15.8	5.2	15.4	8.2	15.1	11.2	14.9	14.3	14.7	17.6	14.5	21.0
		1950	17.9	6.1	17.5	9.4	17.2	12.8	17.0	16.3	16.8	19.9	16.6	23.7
BH150	6B	900	14.0	4.4	13.6	6.8	13.3	9.4	13.0	12.2	12.7	15.1	12.4	18.1
		1050	16.8	5.3	16.4	8.3	16.1	11.3	15.8	14.5	15.5	17.9	15.2	21.5
		1150	18.6	5.8	18.2	9.1	17.9	12.4	17.6	15.9	17.3	19.6	17.0	23.5
		1250	20.5	6.6	20.1	10.0	19.8	13.7	19.5	17.5	19.2	21.5	18.9	25.7
		1400	23.2	7.6	22.8	11.5	22.5	15.6	22.2	19.9	21.9	24.4	21.6	29.1
		1550	26.0	8.8	25.6	13.1	25.3	17.6	25.0	22.4	24.7	27.5	24.4	32.8
BH150A	6B	900	20.0	7.0	18.7	10.6	17.5	14.1	16.5	18.2	15.5	22.3	14.7	26.4
		1050	23.8	8.2	22.5	12.4	21.4	16.5	20.4	21.3	19.2	26.0	18.6	30.8
		1150	26.3	9.0	25.0	13.6	23.8	18.0	22.8	23.3	21.8	28.5	21.0	33.8
		1250	28.9	9.8	27.6	14.8	26.4	19.6	25.4	25.3	24.4	31.0	23.6	36.7
		1400	32.8	10.9	31.5	16.5	30.3	21.9	29.3	28.4	28.3	34.7	27.5	41.1
		1550	36.7	12.1	35.4	18.3	34.2	24.3	33.2	31.4	32.2	38.4	31.4	45.5
BH200	8B	900	25.2	8.2	24.0	12.2	22.8	16.2	21.7	20.2	20.6	24.1	19.6	28.8
		1050	29.2	9.2	28.0	14.0	26.8	19.0	25.7	23.9	24.6	28.8	23.6	34.3
		1150	32.2	9.8	31.0	15.4	29.8	21.0	28.7	26.7	27.7	32.3	26.7	38.5
		1250	35.0	10.4	33.9	16.8	32.8	23.2	31.8	29.5	30.8	35.9	29.7	43.1
		1350	38.1	11.1	37.0	18.2	35.9	25.3	34.8	32.4	33.8	40.0	32.8	47.8
		1450	41.2	11.9	40.0	19.7	38.8	27.5	37.8	35.4	36.7	43.0	35.9	52.5
BH200A	8B	900	31.6	10.7	29.9	16.1	28.3	22.4	27.0	28.9	25.6	35.1	24.5	42.8
		1050	37.6	12.5	35.9	18.8	34.2	26.1	32.9	33.7	31.5	41.0	30.7	50.0
		1150	41.5	13.7	39.8	20.5	38.2	28.6	36.9	37.0	35.4	44.9	34.3	54.7
		1250	45.6	14.9	43.8	22.3	42.3	31.1	41.0	40.2	39.6	48.8	38.5	59.5
		1350	49.5	16.1	47.9	24.1	46.3	33.6	45.0	43.4	43.5	52.7	42.5	64.2
		1450	53.5	17.3	51.8	25.9	50.2	36.1	48.9	46.6	47.5	56.6	46.4	69.0

# BH Type

Model	Bore	min <sup>-1</sup>	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW
BH250	10B	800	35.4	11.5	34.3	17.6	33.2	23.7	32.1	29.9	31.2	37.4	30.5	49.6
		900	40.5	12.7	39.4	19.5	38.3	26.3	37.3	33.1	36.3	42.0	35.6	56.6
		1000	46.4	14.3	45.0	21.8	43.6	29.3	42.9	36.8	42.0	47.7	41.2	64.4
		1100	52.1	16.4	51.0	24.7	49.9	32.8	48.8	41.0	47.9	54.1	47.2	73.2
		1200	58.9	18.6	57.6	26.8	56.3	37.2	55.0	47.6	54.0	62.0	53.3	83.0
		1300	65.5	20.0	64.2	31.2	62.9	42.4	61.5	53.6	60.4	70.5	59.7	93.8
BH250A	10B	800	49.1	24.8	47.8	33.5	46.8	42.2	45.9	50.8	45.2	59.5	44.5	68.1
		900	55.7	26.0	54.5	35.7	53.4	45.4	52.5	55.2	51.8	64.9	51.2	74.6
		1000	62.4	27.1	61.1	37.9	60.0	48.7	59.1	59.5	58.4	70.3	57.8	81.1
		1100	69.0	28.1	67.7	40.0	66.6	51.9	65.8	63.8	65.0	75.7	64.4	87.6
		1200	75.6	29.3	74.3	42.2	73.2	55.2	72.4	68.1	71.6	81.1	71.0	94.1
		1300	82.2	30.4	80.9	44.4	79.9	58.4	79.0	72.5	78.3	86.5	77.6	101
BH300	12B	800	51.6	16.5	48.6	26.5	46.6	37.0	44.6	46.5	42.6	55.5	40.6	68.0
		1000	67.0	20.6	64.0	33.1	62.0	46.3	60.0	58.0	58.6	69.4	56.0	85.0
		1200	82.3	24.8	79.3	39.8	77.3	55.5	75.3	69.8	73.3	83.3	71.3	102
		1400	97.7	28.9	94.7	46.4	92.7	64.8	90.7	81.4	88.7	97.1	86.7	119
		1500	105.3	30.9	102.3	49.7	100.3	69.4	98.3	87.2	96.3	104	94.3	128
BH350	14B	800	95.2	31.7	92.2	46.8	90.2	63.4	88.2	80.9	86.2	100	85.2	120
		900	108	35.7	105	52.6	103	71.3	101	91.0	99.1	113	98.1	135
		1000	121	39.6	118	58.5	116	79.2	114	101	112	125	111	150
		1100	134	43.6	131	64.3	129	87.2	127	111	125	138	124	165
		1200	147	47.5	144	70.2	142	95.1	140	121	138	150	137	180

section indicates water cooled housing and gear cover

## Outline Drawing



unit : mm

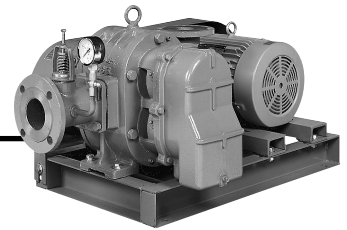
Model	Bore	A	B	C	D	E	F	G	H	I (I')	J	K	L	M	N	n	Q	Weight (kg)
BH 50	2B	165	100	120	980	250	230	—	460	50	560	20	190	130	360	4	M12	78
BH 65	2½B	165	100	129	1218	270	265	—	460	50	560	20	210	110	360	4	M12	105
BH 80	3B	262	152	155	1405	260	253	—	550	50	650	20	200	180	420	4	M12	135
BH100	4B	277	167	180	1435	320	288	—	600	50(100)	750	25	185	265	500	4	M12	145
BH125	5B	327	202	190	1670	365	350	—	650	100	850	35	220	240	530	4	M12	260
BH125A	5B	327	202	190	1670	415	400	—	650	100	850	35	270	260	600	4	M12	320
BH150	6B	412	252	235	1810	430	410	—	800	100	1000	35	270	260	600	4	M12	400
BH150A	6B	412	252	235	1810	500	480	—	1000	125	1250	35	340	360	770	4	M12	490
BH200	8B	482	302	255	1965	475	450	—	1000	125	1250	35	315	255	640	4	M12	640
BH200A	8B	482	297	255	1965	540	515	600	1200	100	1400	35	380	360	810	6	M12	780
BH250	10B	622	422	295	2075	580	515	600	1200	100	1400	35	375	305	750	6	M12	900
BH250A	10B	622	422	320	2100	650	590	750	1500	100	1700	35	450	430	950	6	M14	1100
BH300	12B	782	547	340	2530	645	625	800	1600	100	1800	35	600	530	1200	6	M16	1500
BH350	14B	800	550	390	2710	745	750	550	1650	100	1850	35	600	530	1200	8	M16	2400

● Weight shown covers the blower with standard accessories without motor

● Standard accessories: Suction silencer • Safety valve • V-pulley • V-belt • Pressure gauge • Base • Belt cover



# BS Type



## Performance Chart (1m<sup>3</sup>/min≒35.315CFM)

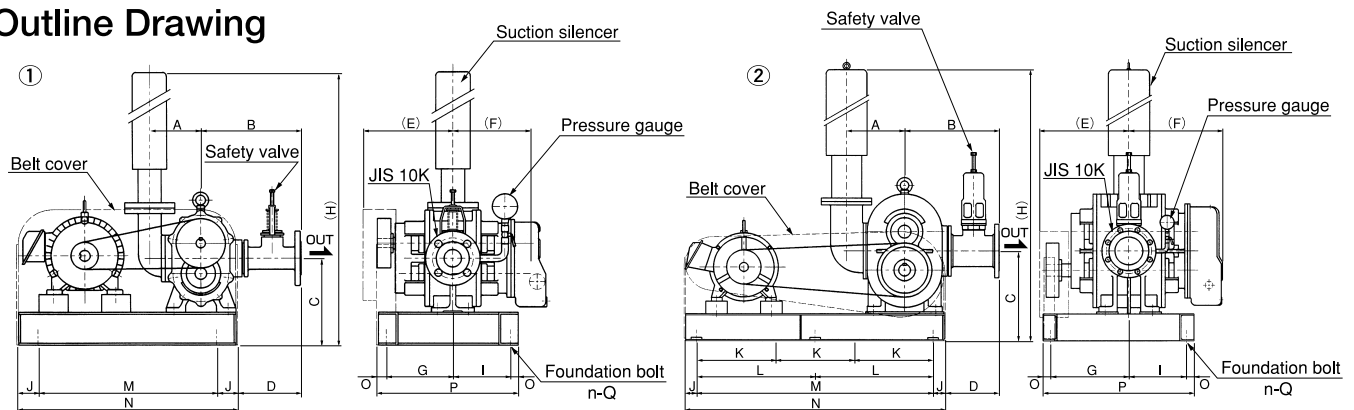
Model	Bore	min <sup>-1</sup>	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW
BS 32	1¼B	1600	0.44	0.36	0.34	0.47	0.23	0.59						
		1750	0.54	0.41	0.44	0.54	0.34	0.68						
		1900	0.64	0.48	0.54	0.62	0.44	0.78	0.35	0.96				
		2050	0.74	0.55	0.64	0.71	0.54	0.89	0.45	1.10				
		2200	0.85	0.63	0.75	0.82	0.65	1.02	0.56	1.24	0.47	1.49		
BS 40	1½B	1200	0.94	0.61	0.83	0.74	0.75	0.88	0.69	1.07	0.64	1.27		
		1300	1.04	0.67	0.93	0.82	0.85	0.98	0.79	1.20	0.73	1.41		
		1400	1.14	0.74	1.03	0.90	0.94	1.08	0.89	1.32	0.83	1.55	0.78	1.79
		1500	1.24	0.81	1.13	0.99	1.04	1.18	0.98	1.44	0.92	1.70	0.87	1.96
		1600	1.34	0.88	1.23	1.07	1.14	1.28	1.08	1.56	1.02	1.84	0.97	2.12
BS 50	2B	1000	1.30	0.7	1.15	0.9	1.03	1.3	0.94	1.5	0.85	1.9		
		1150	1.61	0.8	1.45	1.1	1.33	1.5	1.23	1.8	1.13	2.2		
		1250	1.81	0.9	1.65	1.2	1.52	1.6	1.43	2.0	1.32	2.4	1.28	2.9
		1400	2.11	1.0	1.94	1.4	1.81	1.9	1.72	2.3	1.61	2.7	1.56	3.3
		1500	2.31	1.1	2.14	1.5	2.01	2.0	1.91	2.4	1.80	2.9	1.75	3.6
BS 65	2½B	1000	1.89	1.0	1.74	1.3	1.64	1.7	1.56	2.1	1.47	2.6	1.39	3.1
		1150	2.24	1.1	2.09	1.5	1.98	2.0	1.90	2.4	1.81	2.9	1.71	3.5
		1250	2.47	1.2	2.32	1.6	2.21	2.1	2.12	2.6	2.03	3.1	1.93	3.8
		1350	2.70	1.3	2.54	1.8	2.44	2.3	2.35	2.8	2.25	3.4	2.15	4.1
		1450	2.94	1.4	2.77	1.9	2.66	2.4	2.57	3.0	2.47	3.6	2.37	4.4
BS 80	3B	1550	3.17	1.5	3.00	2.0	2.89	2.6	2.79	3.2	2.69	3.8	2.58	4.6
		1000	3.28	1.6	3.11	2.3	3.02	2.9	2.91	3.6	2.86	4.1	2.66	5.0
		1100	3.69	1.8	3.52	2.5	3.42	3.2	3.31	4.0	3.26	4.6	3.05	5.6
		1200	4.10	2.0	3.92	2.8	3.83	3.6	3.71	4.5	3.66	5.1	3.45	6.1
		1300	4.52	2.2	4.33	3.1	4.23	3.9	4.12	4.9	4.06	5.5	3.84	6.7
		1350	4.73	2.2	4.54	3.2	4.44	4.1	4.32	5.1	4.26	5.8	4.04	7.0
		1450	5.14	2.4	4.95	3.5	4.84	4.4	4.72	5.5	4.66	6.2	4.43	7.5
BS100	4B	1550	5.55	2.6	5.36	3.7	5.25	4.7	5.12	5.9	5.06	6.7	4.83	8.1
		900	5.05	2.3	4.64	3.3	4.36	4.4	4.12	5.4	3.89	6.4	3.72	7.4
		1000	5.93	2.7	5.35	3.8	5.02	5.0	4.80	6.2	4.58	7.3	4.39	8.5
		1100	6.59	3.0	6.06	4.3	5.73	5.7	5.48	7.0	5.28	8.3	5.07	9.6
		1200	7.48	3.4	6.77	4.8	6.34	6.3	6.16	7.8	5.97	9.2	5.75	10.7
		1300	8.15	3.7	7.48	5.3	7.05	7.0	6.85	8.6	6.67	10.2	6.43	11.8
		1400	8.82	4.0	8.19	5.8	7.75	7.6	7.49	9.4	7.26	11.1	7.10	12.9
BS125	5B	1450	9.27	4.2	8.62	6.1	8.15	7.9	7.82	9.8	7.59	11.6	7.44	13.5
		800	10.3	4.0	10.0	5.9	9.7	7.9	9.4	9.9	9.2	12.1	8.9	14.2
		900	11.7	4.5	11.5	6.7	11.1	9.0	10.8	11.3	10.6	13.8	10.3	16.2
		1000	13.2	5.1	12.9	7.6	12.6	10.1	12.3	12.7	12.0	15.5	11.7	18.2
		1100	14.7	5.6	14.4	8.4	14.0	11.2	13.7	14.1	13.4	17.2	13.1	20.2
		1200	16.1	6.2	15.8	9.3	15.4	12.3	15.2	15.5	14.9	19.0	14.5	22.2
		1300	17.6	6.8	17.3	10.1	16.9	13.4	16.6	16.8	16.3	20.7	15.9	24.2
BS150	6B	1350	18.3	7.0	18.0	10.5	17.6	14.0	17.3	17.5	17.0	21.5	16.6	25.2
		800	17.0	6.6	16.5	9.3	16.1	12.1	15.8	15.0	15.5	18.0	14.9	21.0
		900	19.3	7.7	18.8	10.8	18.4	14.1	18.1	17.6	17.8	21.0	17.2	24.5
		1000	21.7	8.8	21.1	12.4	20.8	16.1	20.4	20.1	20.1	24.0	19.4	28.1
		1050	22.9	9.4	22.3	13.2	21.9	17.1	21.5	21.3	21.2	25.5	20.6	29.8
		1100	24.1	9.9	23.5	14.0	23.1	18.2	22.7	22.6	22.4	27.1	21.7	31.6
		1150	25.3	10.5	24.6	14.7	24.2	19.2	23.8	23.9	23.5	28.6	22.8	33.4
BS200	8B	1200	26.4	11.0	25.8	15.5	25.4	20.2	25.0	25.1	24.7	30.1	24.0	35.1
		1250	27.6	11.6	27.0	16.3	26.6	21.2	26.1	26.4	25.8	31.6	25.1	36.9
		700	28.5	11.6	27.8	15.3	27.1	19.6	26.7	24.6	26.4	30.1	26.1	36.0
		750	30.8	12.6	30.0	16.6	29.4	21.3	29.0	26.7	28.7	32.7	28.4	39.1
		800	33.1	13.6	32.3	18.0	31.7	23.0	31.3	28.9	31.0	35.3	30.7	42.2
		850	35.4	14.6	34.6	19.3	34.0	24.7	33.6	31.0	33.3	37.9	33.0	45.3
		900	37.6	15.6	36.9	20.6	36.3	26.4	35.9	33.1	35.6	40.5	35.3	48.4
950	39.9	16.6	39.2	21.9	38.6	28.0	38.2	35.2	37.9	43.1	37.6	51.5		
1000	42.2	17.6	41.5	23.2	40.9	29.7	40.5	37.3	40.2	45.7	39.9	54.6		
1050	44.5	18.6	43.8	24.5	43.2	31.4	42.8	39.4	42.5	48.3	42.2	57.7		
1100	46.8	19.9	46.1	26.3	45.5	33.7	45.1	42.2	44.8	51.7	44.5	61.8		

# BS Type

Model	Bore	min <sup>-1</sup>	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW
BS200D	8B	700	29.3	8.6	27.7	14.1	26.4	19.6	25.4	25.3	24.5	31.1	23.6	37.0
		750	31.6	9.2	30.0	15.1	28.7	21.0	27.7	27.1	26.8	33.3	25.9	39.6
		800	34.0	9.8	32.4	16.1	31.1	22.4	30.1	29.0	29.2	35.5	28.3	42.3
		850	36.4	10.4	34.8	17.1	33.5	23.8	32.5	30.8	31.6	37.7	30.7	44.9
		900	38.7	11.1	37.1	18.1	35.8	25.2	34.8	32.6	33.9	39.9	33.0	47.5
		950	41.1	11.7	39.5	19.1	38.2	26.6	37.2	34.4	36.3	42.2	35.4	50.2
		1000	43.5	12.3	41.9	20.1	40.6	28.0	39.6	36.2	38.7	44.4	37.8	52.8
		1050	45.8	12.9	44.2	21.1	42.9	29.4	41.9	38.0	41.0	46.6	40.1	55.5
BS250	10B	700	48.1	15.0	46.3	23.6	44.5	32.3	44.0	40.9	43.2	49.7	42.3	58.7
		750	52.0	16.2	50.2	25.5	48.4	34.9	48.0	44.3	47.1	53.7	46.2	63.5
		800	55.9	17.4	54.1	27.5	52.3	37.5	51.9	47.6	51.1	57.8	50.2	68.3
		850	59.8	18.6	58.1	29.4	56.3	40.2	55.9	50.9	55.0	61.8	54.1	73.1
		900	63.7	19.8	62.0	31.3	60.2	42.8	59.8	54.3	59.0	65.9	58.1	77.8
		950	67.6	21.1	65.9	33.2	64.1	45.4	63.7	57.6	62.9	69.9	62.0	82.6
		1000	71.5	22.3	69.8	35.2	68.1	48.1	67.7	61.0	66.9	74.0	66.0	87.4
		1050	75.4	23.5	73.7	37.1	72.0	50.7	71.6	64.3	70.8	78.0	69.9	92.2
BS250D	10B	700	61.2	19.7	58.9	31.1	56.9	42.6	55.1	54.2	53.4	66.7	51.9	79.6
		750	66.1	21.1	63.8	33.4	61.8	45.6	60.0	58.1	58.3	71.5	56.8	85.3
		800	71.1	22.6	68.8	35.6	66.8	48.7	65.0	61.9	63.3	76.3	61.8	91.0
		850	76.0	24.0	73.7	37.8	71.7	51.7	69.9	65.8	68.2	81.0	66.7	96.7
		900	81.0	25.4	78.7	40.0	76.7	54.8	74.9	69.7	73.2	85.8	71.7	102
		950	85.9	26.8	83.6	42.3	81.6	57.8	79.8	73.6	78.1	90.6	76.6	108
		1000	90.9	28.2	88.6	44.5	86.6	60.9	84.8	77.4	83.1	95.3	81.6	114
		1050	95.8	29.6	93.5	46.7	91.5	63.9	89.7	81.3	88.0	100	86.5	119
BS300	12B	700	82.7	24.3	79.7	39.4	77.3	54.9	75.3	70.5	73.6	86.4	72.0	103
		800	95.5	27.8	92.5	45.1	90.1	62.7	88.1	80.6	86.4	98.7	84.8	117
		850	101.9	29.5	98.9	47.9	96.5	66.7	94.5	85.6	92.8	105	91.2	125
		900	108.4	31.3	105.4	50.7	103.0	70.6	101.0	90.7	99.3	111	97.7	132
		950	114.8	33.0	111.8	53.5	109.4	74.5	107.4	95.7	105.7	117	104.1	139

● For the use at 60kPa or more, ask us for information.

## Outline Drawing



unit : mm

Model	Bore	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	n	Weight (kg)
BS 32	1¼B	105	219	187	141	233	240	173	872	147	50	—	—	460	560	20	360	M12	4	56
BS 40	1½B	132	260	224	170	232	242	172	1004	148	50	—	—	460	560	20	360	M12	4	88
BS 50	2B	144	250	224	147	305	307	255	1222	150	50	—	—	620	720	20	445	M12	4	132
BS 65	2½B	180	301	258	181	280	291	230	1275	175	50	—	—	620	720	20	445	M12	4	160
BS 80	3B	180	325	283	197	347	347	302	1470	198	100	—	—	670	870	25	550	M12	4	217
BS100	4B	214	374	324	224	390	404	325	1535	205	100	—	—	760	960	35	600	M12	4	327
BS125	5B	271	441	420	259	415	431	365	1865	265	50	—	550	1100	1200	35	700	M14	6	530
BS150	6B	306	490	459	285	430	525	395	1919	335	100	—	550	1100	1300	35	800	M14	6	690
BS200	8B	392	616	539	376	510	550	465	2081	415	100	—	750	1500	1700	35	950	M16	6	1169
BS200D	8B	440	677	585	407	525	585	475	2245	405	100	—	750	1500	1700	35	950	M16	6	1521
BS250	10B	440	758	584	489	686	733	651	2196	479	100	—	800	1600	1800	35	1200	M18	6	1904
BS250D	10B	700	842	692	517	720	775	660	2599	670	105	630	—	1890	2100	35	1400	M18	8	2420
BS300	12B	700	797	692	472	813	850	753	2599	577	105	630	—	1890	2100	35	1400	M18	8	2950

● Weight shown covers the blower with standard accessories without motor

● Standard accessories: Suction silencer • Safety valve • V-pulley • V-belt • Pressure gauge • Base • Belt cover

# BWH Type

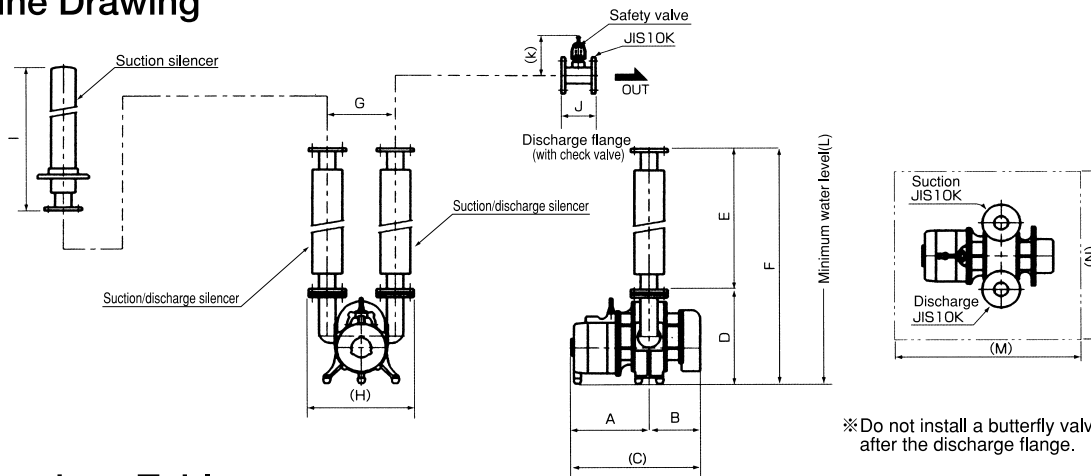


## Performance Chart

Frequency Hz	Model	Bore	Submersible motor 3-phase/ 200VX4P	Standard suction state air capacity (m <sup>3</sup> /min) and power requirements (kW)											
				10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
				m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW
50	BWH2504	25A (1B)	0.4kW	0.31	0.23	0.28	0.27	0.25	0.31	0.22	0.35	0.19	0.40		
	BWH2504A	25A (1B)	0.4kW	0.39	0.28	0.35	0.33	0.31	0.38						
	BWH3208	32A (1¼B)	0.75kW	0.56	0.38	0.49	0.44	0.42	0.50	0.36	0.56	0.30	0.63		
	BWH3208A	32A (1¼B)	0.75kW	0.69	0.39	0.61	0.45	0.53	0.53	0.46	0.62	0.40	0.73		
	BWH4015	40A (1½B)	1.5kW	0.99	0.60	0.88	0.78	0.77	0.96	0.67	1.16	0.58	1.38		
	BWH4015D	40A (1½B)	1.5kW	1.15	0.70	1.05	0.90	0.95	1.10	0.87	1.30				
	BWH4022	40A (1½B)	2.2kW	1.18	0.72	1.07	0.92	0.98	1.12	0.91	1.32	0.85	1.52	0.80	1.75
	BWH5015	50A (2B)	1.5kW	1.15	0.70	1.05	0.90	0.95	1.10	0.87	1.30				
	BWH5022	50A (2B)	2.2kW	1.48	0.81	1.33	1.06	1.18	1.31	1.05	1.61	0.93	1.93		
	BWH5022D	50A (2B)	2.2kW	2.10	1.0	1.98	1.4	1.87	1.8	1.78	2.2				
	BWH5037	50A (2B)	3.7kW	2.20	1.5	2.06	1.9	1.92	2.2	1.81	2.6	1.72	3.1	1.65	3.6
	BWH6522	65A (2½B)	2.2kW	2.10	1.0	1.98	1.4	1.87	1.8	1.78	2.2				
	BWH6537	65A (2½B)	3.7kW	3.06	1.6	2.88	1.9	2.70	2.4	2.54	2.9	2.40	3.6		
	BWH6537A	65A (2½B)	3.7kW	3.90	1.8	3.70	2.3	3.50	2.9	3.31	3.7				
	BWH6555	65A (2½B)	5.5kW	3.06	1.6	2.88	1.9	2.70	2.4	2.54	2.9	2.40	3.6	2.31	4.3
	BWH8055	80A (3B)	5.5kW	4.56	2.0	4.28	2.8	4.00	3.6	3.75	4.3	3.50	5.5		
	BWH8075	80A (3B)	7.5kW	5.30	2.2	5.05	3.1	4.80	4.0	4.50	5.1	4.31	6.2	4.11	7.3
	BWH10075	100A (4B)	7.5kW	6.4	2.8	6.2	3.9	6.0	5.0	5.8	6.2	5.6	7.5		
BWH10011	100A (4B)	11kW	6.4	2.8	6.2	3.9	6.0	5.0	5.8	6.2	5.6	7.5	5.4	9.0	
BWH12575	125A (5B)	7.5kW	6.4	2.8	6.2	3.9	6.0	5.0	5.8	6.2	5.6	7.5			
BWH12511	125A (5B)	11kW	9.6	3.7	9.3	5.5	9.0	7.3	8.8	9.2	8.6	11.0			
BWH12515	125A (5B)	15kW	9.6	3.7	9.3	5.5	9.0	7.3	8.8	9.2	8.6	11.0	8.4	13.1	
60	BWH2504	25A (1B)	0.4kW	0.40	0.24	0.36	0.31	0.32	0.38						
	BWH3208	32A (1¼B)	0.75kW	0.69	0.39	0.61	0.45	0.53	0.53	0.46	0.62	0.40	0.72		
	BWH4015	40A (1½B)	1.5kW	1.23	0.66	1.13	0.88	1.03	1.10	0.93	1.36				
	BWH4015D	40A (1½B)	1.5kW	1.42	0.72	1.32	0.91	1.22	1.19	1.14	1.50				
	BWH4022	40A (1½B)	2.2kW	1.43	0.74	1.33	0.93	1.25	1.21	1.18	1.51	1.11	1.83	1.05	2.18
	BWH5015	50A (2B)	1.5kW	1.42	0.72	1.32	0.91	1.22	1.19	1.14	1.50				
	BWH5022	50A (2B)	2.2kW	1.83	0.84	1.70	1.10	1.53	1.50	1.40	1.95				
	BWH5022D	50A (2B)	2.2kW	2.52	1.3	2.40	1.7	2.28	2.2						
	BWH5037	50A (2B)	3.7kW	2.70	1.9	2.56	2.4	2.42	2.8	2.31	3.2	2.20	3.7		
	BWH6522	65A (2½B)	2.2kW	2.52	1.3	2.40	1.7	2.28	2.2						
	BWH6537	65A (2½B)	3.7kW	3.76	2.0	3.58	2.3	3.40	2.9	3.24	3.7				
	BWH6555	65A (2½B)	5.5kW	3.76	2.0	3.58	2.3	3.40	2.9	3.24	3.7	3.12	4.5	3.01	5.4
	BWH8055	80A (3B)	5.5kW	5.70	2.3	5.50	3.3	5.30	4.3	5.10	5.5				
	BWH8075	80A (3B)	7.5kW	6.51	2.5	6.26	3.6	6.01	4.9	5.78	6.1	5.60	7.4		
	BWH10075	100A (4B)	7.5kW	7.6	3.1	7.4	4.6	7.2	6.1	7.0	7.5				
	BWH10011	100A (4B)	11kW	7.6	3.1	7.4	4.6	7.2	6.1	7.0	7.5	6.8	9.1	6.6	11.0
	BWH12575	125A (5B)	7.5kW	7.6	3.1	7.4	4.6	7.2	6.1	7.0	7.5				
	BWH12511	125A (5B)	11kW	11.4	4.4	11.1	6.6	10.8	8.8	10.5	11.0				
BWH12515	125A (5B)	15kW	11.4	4.4	11.1	6.6	10.8	8.8	10.5	11.0	10.2	13.0	9.8	15.0	

# BWH Type

## Outline Drawing



※ Do not install a butterfly valve immediately after the discharge flange.

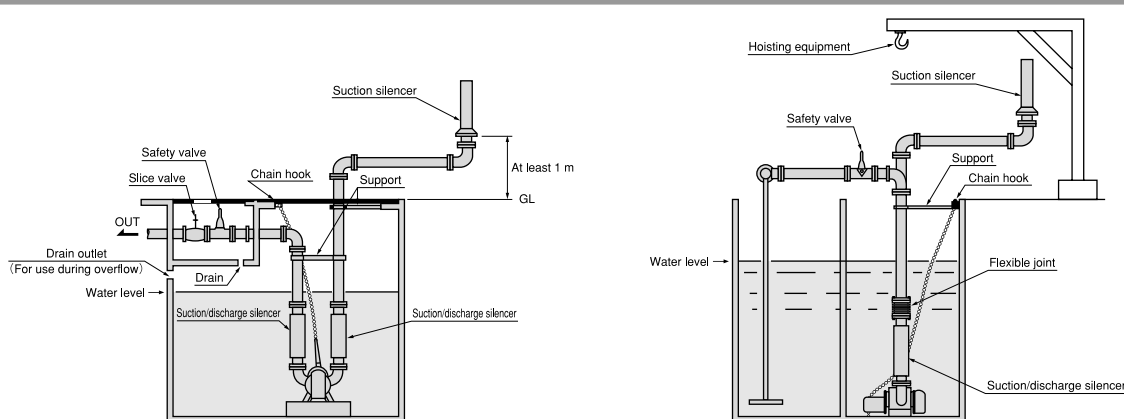
## Dimensions Table

unit : mm

Model	Bore	A	B	C	D	E	F	G	H	I	J	K	L	N	Cab tire cable	Weight (kg)
BWH2504	25A	228	133	361	276	414	690	176	301	580	130	140	500	700×500 or φ600	1.25mm <sup>2</sup> ×6m	56
BWH2504A	25A	243	148	391	276	414	690	176	301	580	130	140	500			59
BWH3208	32A	257	148	405	292	418	710	192	327	580	135	145	550			69
BWH3208A	32A	272	163	435	292	418	710	192	327	580	135	145	550	700×500 or φ900	1.25mm <sup>2</sup> ×10m	74
BWH4015	40A	296	183	479	319	578	897	240	380	650	150	145	650			107
BWH4015D	40A	306	193	499	319	578	897	240	380	650	150	145	650			110
BWH4022	40A	343	193	536	319	578	897	240	380	650	150	145	650	900×600 or φ900	1.25mm <sup>2</sup> ×10m	113
BWH5015	50A	306	193	499	319	815	1134	240	395	870	150	150	750			126
BWH5022	50A	363	213	576	319	815	1134	240	395	870	150	150	750			137
BWH5022D	50A	343	216	559	398	815	1213	312	467	870	150	150	850	900×600 or φ900	2mm <sup>2</sup> ×10m	166
BWH5037	50A	337	223	560	398	815	1213	298	453	870	150	150	850			161
BWH6522	65A	342	217	559	398	785	1183	312	487	870	160	160	850			174
BWH6537	65A	355	240	595	408	785	1193	317	492	870	160	160	850	900×600	2mm <sup>2</sup> ×10m	190
BWH6537A	65A	375	260	635	408	785	1193	317	492	870	160	160	850			196
BWH6555	65A	369	240	609	435	785	1220	317	492	870	160	160	900			205
BWH8055	80A	407	278	685	445	900	1345	332	517	1120	190	200	950	900×600	3.5mm <sup>2</sup> ×10m	251
BWH8075	80A	459	295	754	445	900	1345	332	517	1120	190	200	950			268
BWH10075	100A	424	255	679	425	900	1325	420	630	1120	200	210	950			313
BWH10011	100A	452	255	707	445	900	1345	420	630	1120	200	210	950	1200×800	2—5.5mm <sup>2</sup> ×10m	363
BWH12575	125A	424	255	679	425	1000	1425	460	710	1215	200	225	1000			363
BWH12511	125A	502	305	807	445	1000	1445	460	710	1215	200	225	1000			413
BWH12515	125A	552	305	857	445	1000	1445	460	710	1215	200	225	1000	2—8mm <sup>2</sup> ×10m	423	

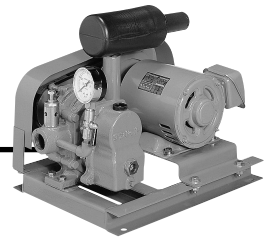
- Direct startup with 7.5 kW or smaller models; star-delta startup with 11.15 kW model. (Mass value includes standard accessories.)
- Standard accessories: Suction silencer·Suction/discharge silencer·Safety valve·Pressure gauge·Discharge flange (with check valve) · Hoisting chain (6 m) (4015~12515) · Rubber cushion

## Typical installation



- Install the suction silencer outside of the tank (at least 1 m above ground).
- The safety valve part must be above the maximum water level (at least 1 m away from the tank).
- Use steel pipe.
- Tank opening must be larger than the blower.
- Provide supports for piping.
- Provide a drain hole so that water will drain out even if the water level rises abnormally.
- If the safety valve is installed as shown in the figure, provide a drain hole so that rainwater does not accumulate.
- Make sure the hoisting chain does not contact any piping. (Prevent contact between chain and piping due to water splashing during aeration.)
- Install the suction silencer outdoors if an underground septic tank is provided.

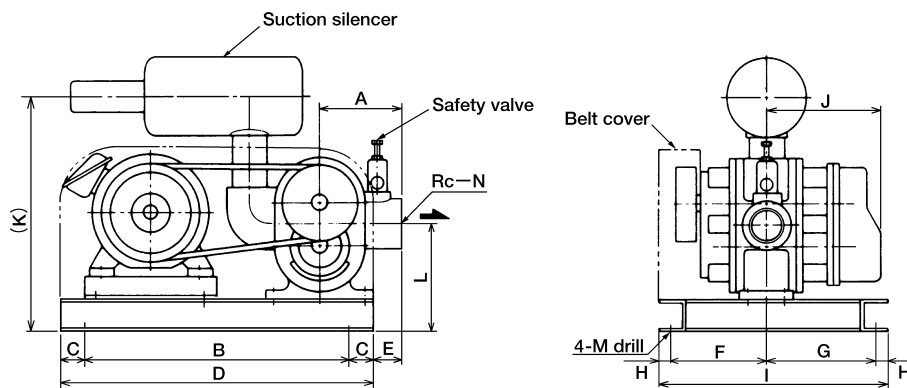
# BSS Type



## Performance Chart (1m<sup>3</sup>/min≒35.315CFM)

Model	Bore	min <sup>-1</sup>	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)	
			m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW	m <sup>3</sup> /min	kW
BSS20	3/4 B	1750	0.24	0.25	0.21	0.29	0.18	0.33	0.15	0.38	0.12	0.45
		2000	0.30	0.28	0.27	0.33	0.24	0.38	0.21	0.44	0.18	0.51
BSS25	1B	2300	0.36	0.32	0.33	0.38	0.30	0.44	0.27	0.51	0.24	0.58
		2600	0.43	0.36	0.40	0.42	0.37	0.49	0.34	0.57	0.31	0.66
		3000	0.52	0.42	0.49	0.49	0.46	0.57	0.43	0.66	0.40	0.76
BSS32	1 1/4 B	2300	0.57	0.46	0.53	0.54	0.49	0.63	0.45	0.73	0.41	0.84
		2600	0.67	0.52	0.63	0.61	0.59	0.71	0.55	0.82	0.51	0.94
		3000	0.80	0.60	0.76	0.70	0.72	0.82	0.68	0.95	0.64	1.09
BSS40	1 1/2 B	2300	0.81	0.63	0.76	0.74	0.71	0.87	0.66	1.01	0.61	1.15
		2600	0.94	0.71	0.89	0.84	0.84	0.99	0.79	1.14	0.74	1.30
		3000	1.12	0.82	1.07	0.97	1.02	1.14	0.97	1.32	0.92	1.50

## Outline Drawing



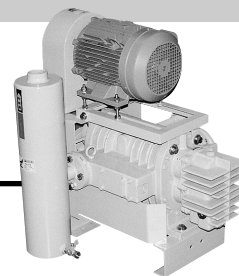
Model	Bore	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Weight (kg)
BSS20	3/4B	95	350	25	400	25	110	164	13	300	143	310	133	12	3/4"	18
BSS25	1B	95	350	25	400	25	110	164	13	300	143	310	133	12	1"	18
BSS32	1 1/4B	95	350	25	400	25	122	152	13	300	155	325	133	12	1 1/4"	20
BSS40	1 1/2B	95	350	25	400	25	137	137	13	300	170	350	133	12	1 1/2"	23

unit : mm

- Weight shown covers the blower with standard accessories without motor
- Standard accessories: Suction silencer · Safety valve · V-pulley · V-belt · Base · Belt cover



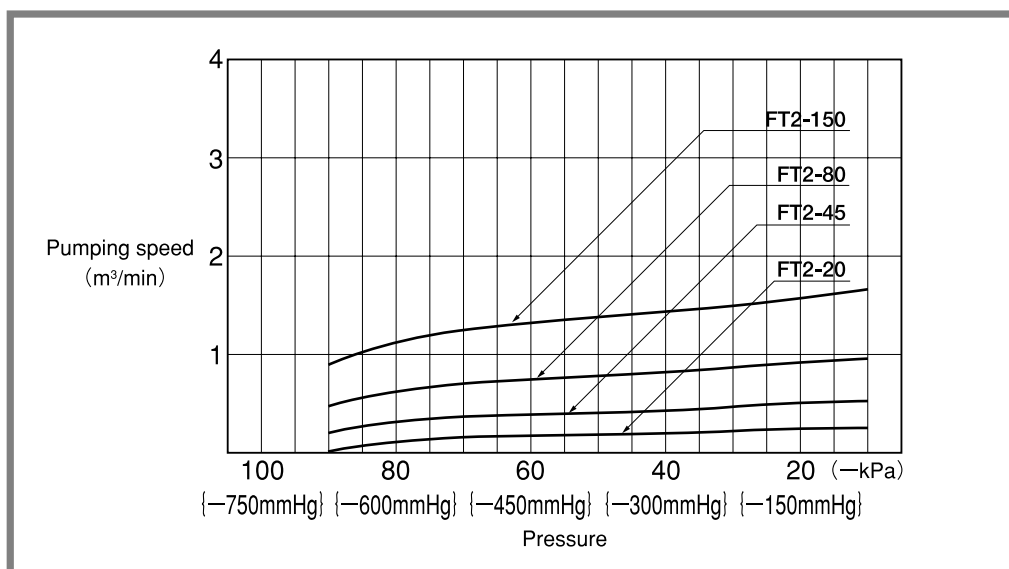
# FT2 (Air cooled type) Type



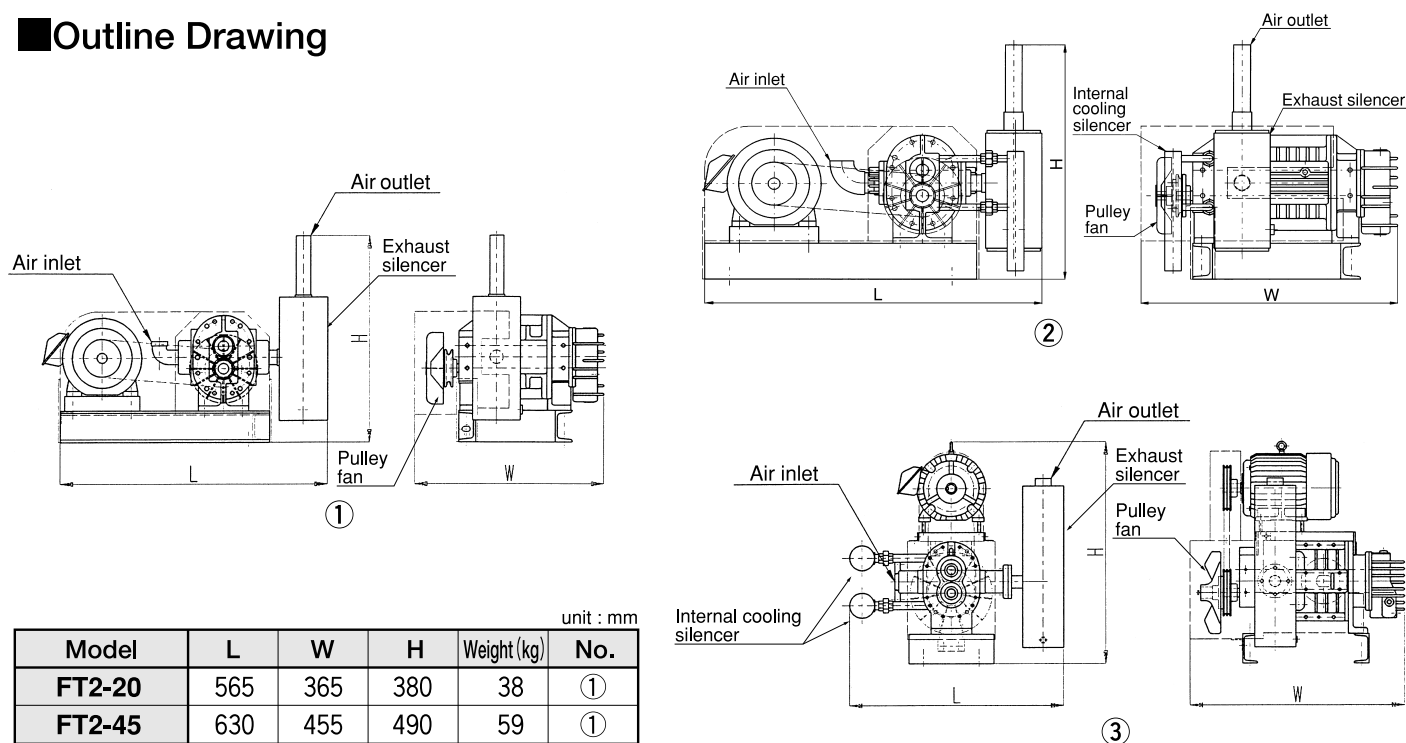
## Performance Chart

Specification	Model	FT2-20	FT2-45	FT2-80	FT2-150
Suction bore	(A)	15	25	32	50
Discharge bore	(A)	15	25	25	40
Designed exhaust speed (m <sup>3</sup> /min)		0.35	0.82	1.27	2.38
Motor output	(kW)	0.75×2P	1.5×2P	2.2×2P	3.7×4P
Rotation speed	(min <sup>-1</sup> )	2800	3000	3000	1700
Ultimate pressure	(kPa)	8 {60Torr}	5.3 {40Torr}	5.3 {40Torr}	2.7 {20Torr}
Noise dB (A) 8kPa {60Torr} at 1m		72	74	78	80

## Performance curve



## Outline Drawing



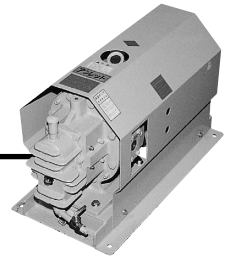
unit : mm

Model	L	W	H	Weight (kg)	No.
FT2-20	565	365	380	38	①
FT2-45	630	455	490	59	①
FT2-80	680	520	490	72	②
FT2-150	730	730	755	155	③

● Weight shown covers the vacuum pump with standard accessories without motor

● Standard accessories:  
Base · Belt cover · Pulley fan · V-pulley · V-belt · Exhaust silencer ·  
Internal cooling silencer (FT2-80·150) · Foundation bolt

# FT3 (Compact vacuum pump) Type

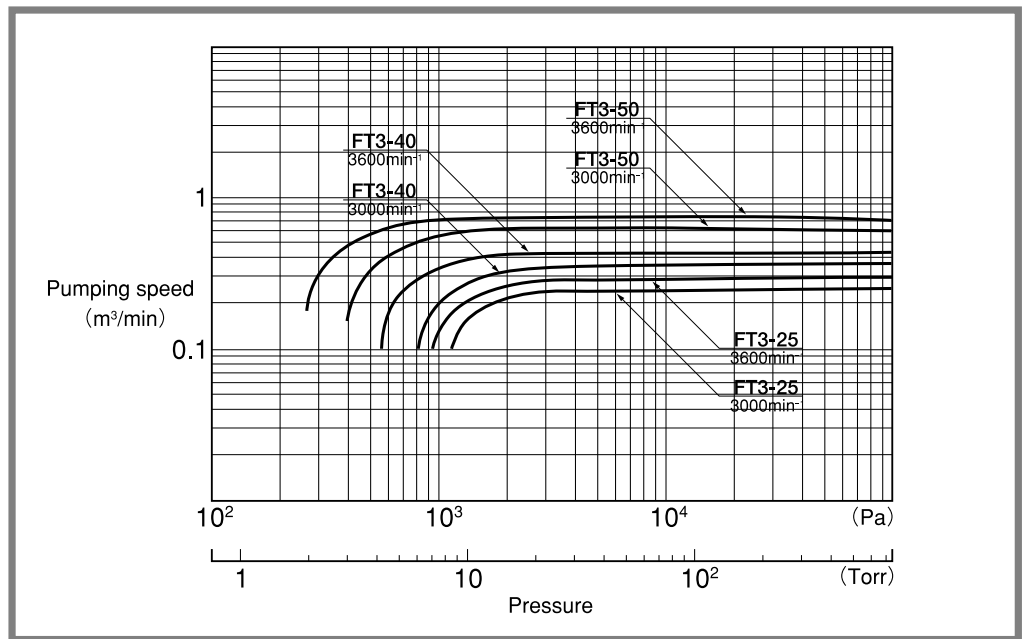


## Performance Chart

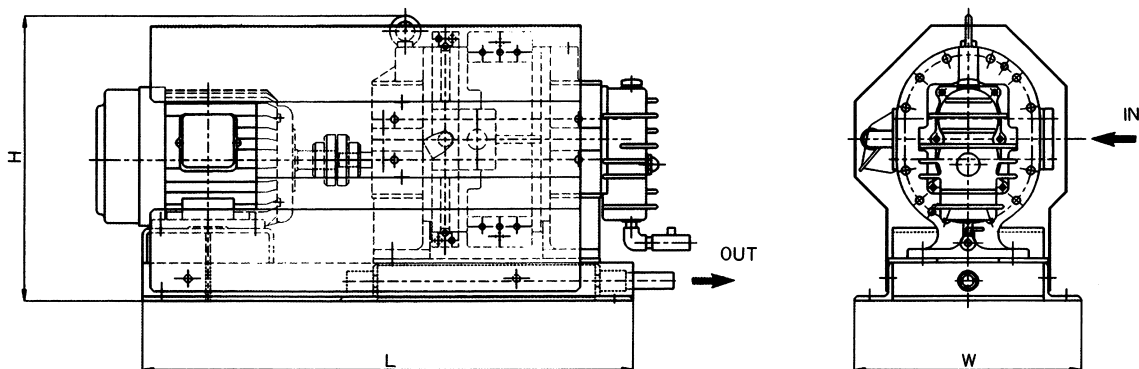
Specification	Model	FT3-25		FT3-40		FT3-50	
Suction bore (A)	(A)	20		20		20	
Discharge bore (A)	(A)	10		15		15	
Designed exhaust speed (m <sup>3</sup> /min)	(m <sup>3</sup> /min)	0.36	0.43	0.52	0.62	0.77	0.93
Motor output (kW)	(kW)	0.75		1.5		1.5	
Rotation speed (min <sup>-1</sup> )	(min <sup>-1</sup> )	3000	3600	3000	3600	3000	3600
Noise dB (A) 1.3kPa {10Torr} at 1m		74	76	75	78	76	79

\* Motor: three phase, 200V, 2P totally-enclosed fan-cooled type.

## Performance curve



## Outline Drawing



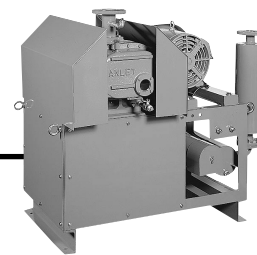
unit : mm

Model	L	W	H	Weight (kg)
FT3-25	575	300	380	90
FT3-40	650	300	380	110
FT3-50	650	300	380	120

● Weight shown covers the vacuum pump with standard accessories

● Standard accessories:  
Motor (totally-enclosed fan-cooled type) · Base ·  
Wind guide · Coupling

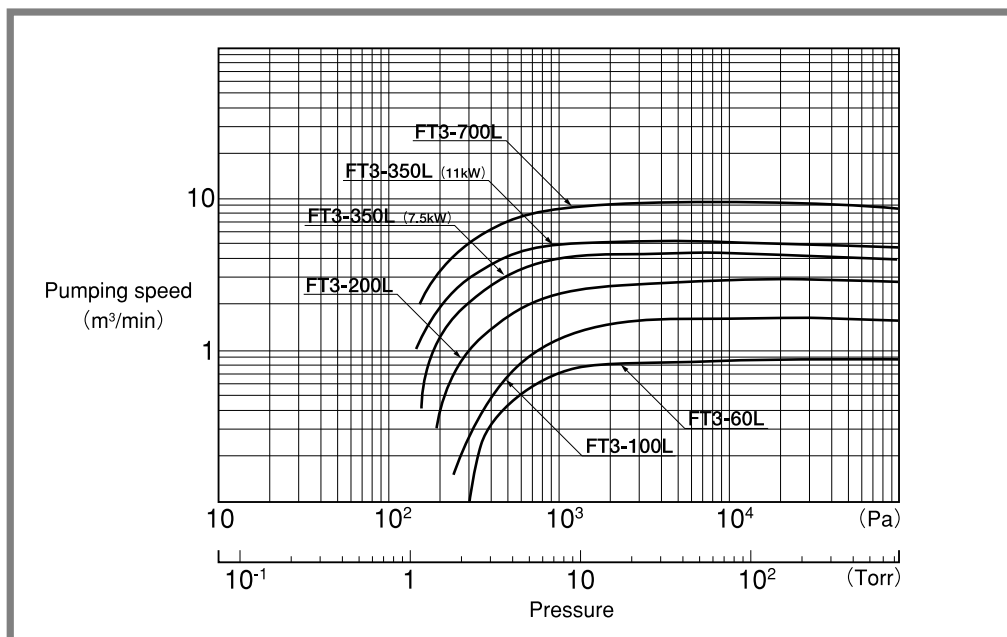
# FT3-L (Air cooled type) Type



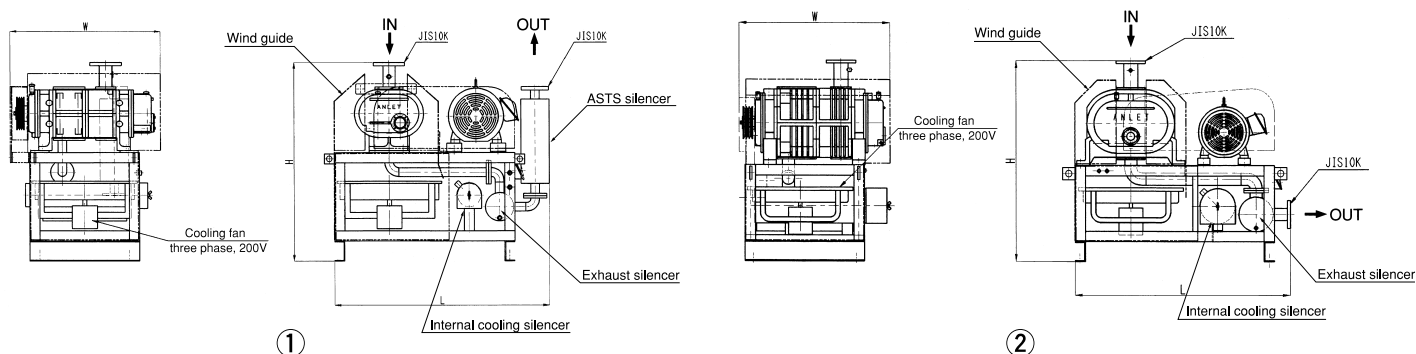
## Performance Chart

Specification	Model	FT3-60L	FT3-100L	FT3-200L	FT3-350L	FT3-700L	
Suction bore (A)	(A)	40	40	50	65	80	
Discharge bore (A)	(A)	25	25	32	50	65	
Designed exhaust speed (m <sup>3</sup> /min)		1.26	2.08	3.82	5.13	6.41	11.3
Motor output (kW)		2.2	3.7	5.5	7.5	11	15
Rotation speed (min <sup>-1</sup> )		1800	2300	2000	1600	2000	1700
Cooling fan output (W)		50	150	200	750	750	750
Noise dB (A) 133Pa {1Torr} at 1m		75	76	78	81	83	85

## Performance curve



## Outline Drawing



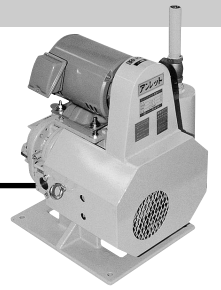
unit : mm

Model	L	W	H	Weight (kg)	No.
FT3-60L	785	660	740	230	①
FT3-100L	860	710	830	250	①
FT3-200L	1060	750	975	380	①
FT3-350L	1400	900	1100	610	①
FT3-700L	1350	940	1250	1100	②

● Weight shown covers the vacuum pump with standard accessories without motor

- Standard accessories:  
Base • Belt cover • V-pulley • V-belt • Exhaust silencer • Cooling fan • Wind guide • Internal cooling silencer • ASTS silencer (FT3-60L~350L) • Foundation bolt

# FT4 (Air cooled type) Type

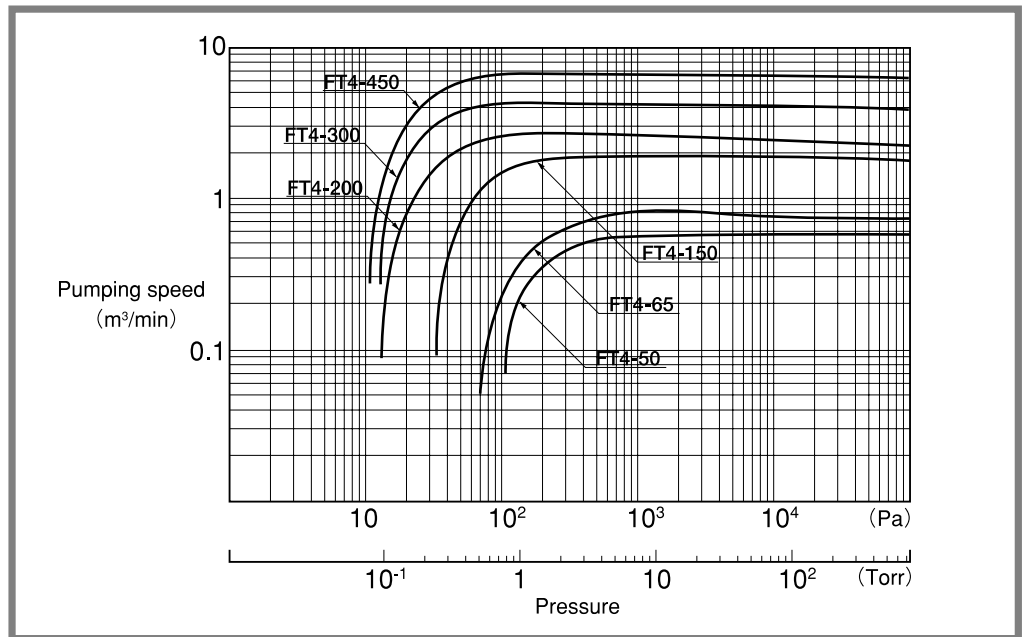


## Performance Chart

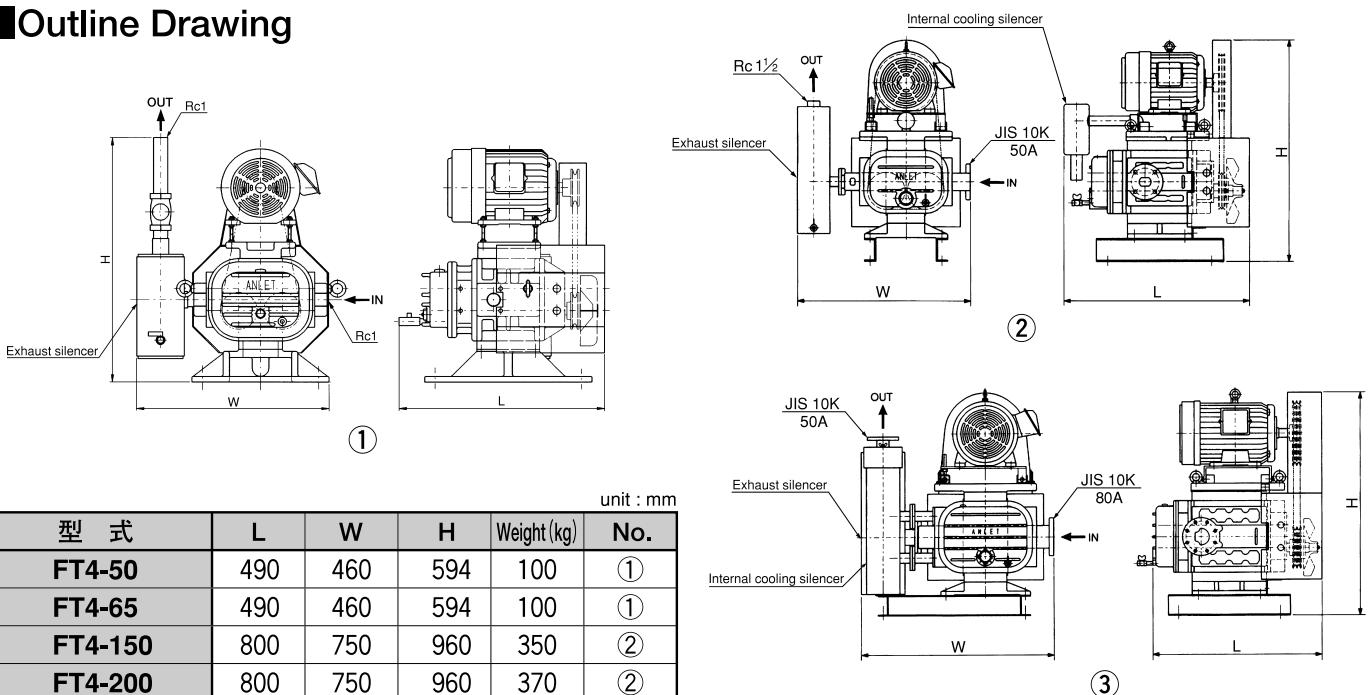
Specification	Model	FT4-50	FT4-65	FT4-150	FT4-200	FT4-300	FT4-450
Suction bore (A)		25	25	50	50	80	80
Discharge bore (A)		25	25	40	40	50	50
Designed exhaust speed (m <sup>3</sup> /min)		0.77	0.91	2.38	3.22	5.23	7.21
Motor output (kW)		1.5	2.2	3.7	5.5	7.5	11
Rotation speed (min <sup>-1</sup> )		2800	3300	1700	2300	1450	2000
Noise dB (A) 133Pa {1Torr} at 1m		75	76	78	80	84	86

\* FT4-50/65 motors: three phase, 200V, 2P. FT4-150~450 motors: three phase, 200V, 4P

## Performance curve



## Outline Drawing



unit : mm

型式	L	W	H	Weight (kg)	No.
FT4-50	490	460	594	100	①
FT4-65	490	460	594	100	①
FT4-150	800	750	960	350	②
FT4-200	800	750	960	370	②
FT4-300	840	950	1100	650	③
FT4-450	840	950	1100	680	③

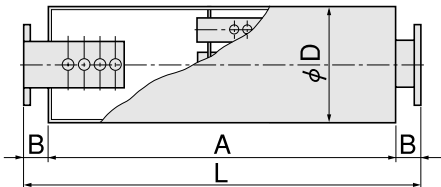
● Weight shown covers the vacuum pump with standard accessories without motor

● Standard accessories:  
Base • Fan cover • Pulley fan • V-pulley • V-belt • Exhaust silencer •  
Internal cooling silencer (Over FT4-150) • Foundation bolt

# Special Accessories

\* Specially attached connecting flange is equivalent to JIS10K.

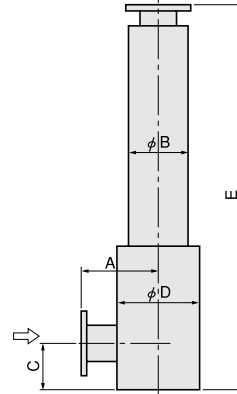
## Delivery silencer ASNS



unit : mm

Model	A	B	D	L	Weight (kg)
ASNS 40A	460	60	219	580	18
ASNS 50A	695	60	219	815	21
ASNS 65A	665	60	219	785	25
ASNS 80A	770	65	219	900	29
ASNS100A	860	70	270	1000	39

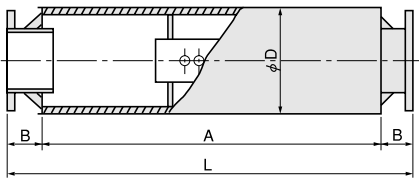
## Delivery silencer AGL-V (For atmosphere relief)



unit : mm

Model	A	B	C	D	E	Weight (kg)
AGL 40VA	150	114	100	140	770	18
AGL 50VA	170	140	100	165	820	20
AGL 65VA	190	165	120	216	1000	27
AGL 80VA	210	165	140	216	1150	31
AGL100VA	250	202	170	319	1390	47

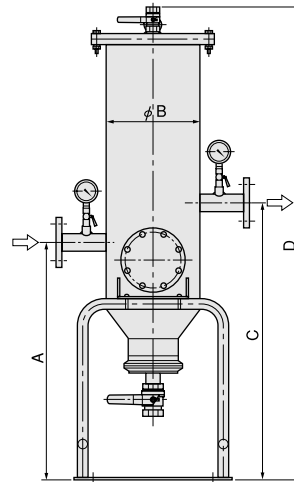
## Delivery silencer AGOS



unit : mm

Model	A	B	D	L	Weight (kg)
AGOS 25A	286	64	114	414	5.7
AGOS 32A	412	60	140	532	8.8
AGOS 40A	460	60	165	580	10
AGOS 50A	695	60	216	815	19
AGOS 65A	665	60	216	785	18
AGOS 80A	770	65	216	900	22
AGOS100A	860	70	216	1000	26

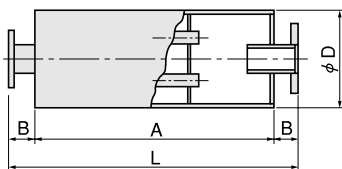
## Trap AT



unit : mm

Model	A	B	C	D	Weight (kg)
AT 40A	680	267	795	1360	80
AT 50A	875	319	1000	1560	110
AT 65A	875	319	1000	1560	115
AT 80A	875	319	1000	1560	120
AT100A	1010	457	1150	1800	175

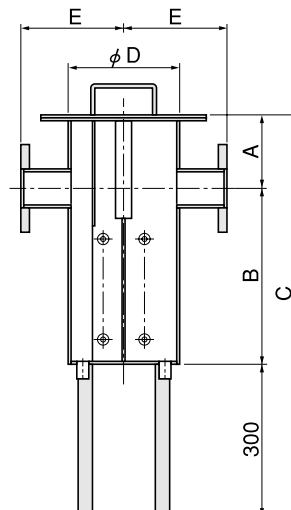
## Delivery silencer ASTS



unit : mm

Model	A	B	D	L	Weight (kg)
ASTS25A	286	64	114	414	7
ASTS32A	412	60	140	532	11
ASTS40A	460	60	165	580	15
ASTS50A	695	60	216	815	29
ASTS65A	665	60	216	785	31

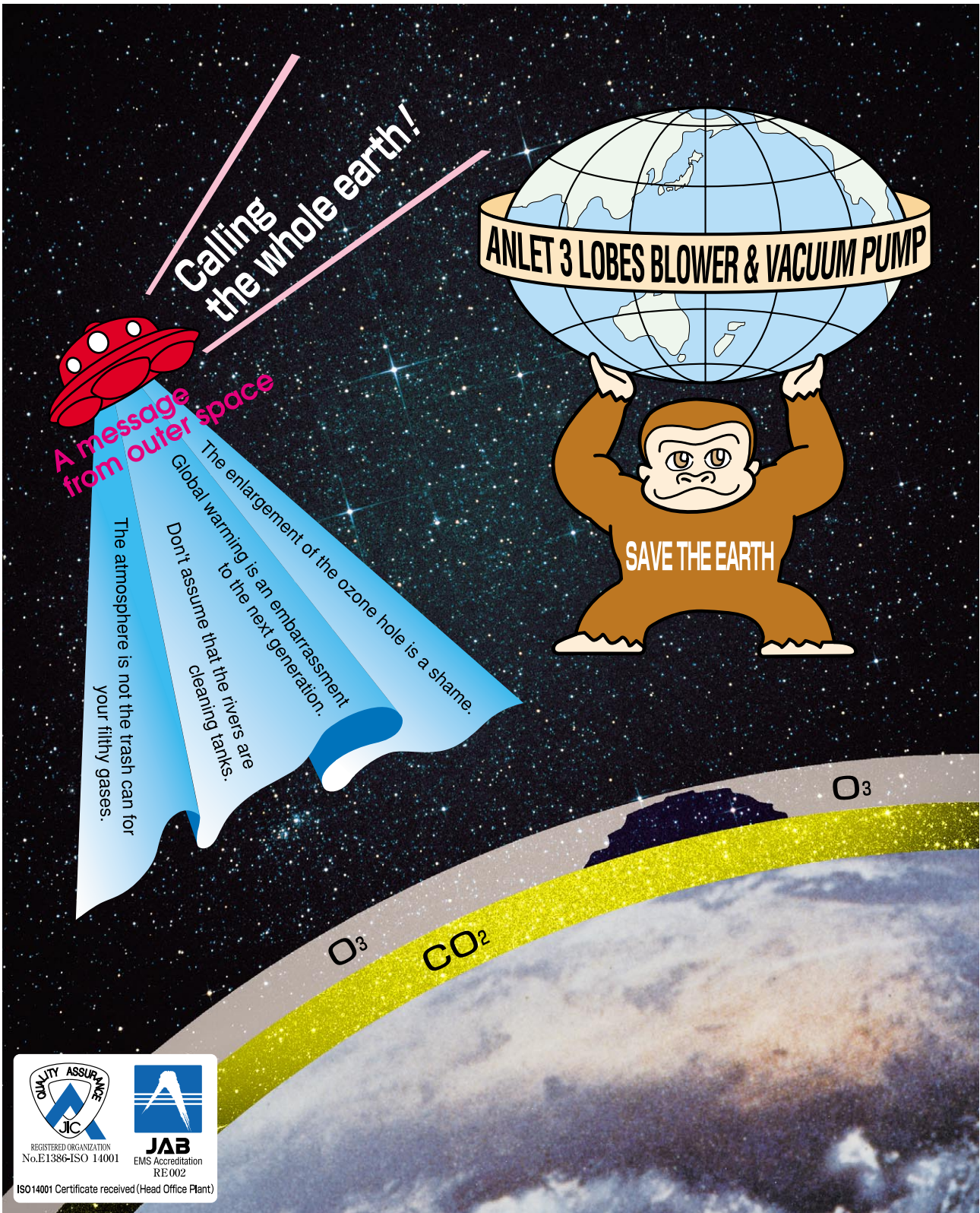
## Drain gas filter DGF



unit : mm

Model	A	B	C	D	E
DGF 20	140	350	790	216	200
DGF 25	140	350	790	216	200
DGF 32	140	350	790	216	200
DGF 65	140	350	790	216	200
DGF 80	140	400	840	267	230
DGF100	150	500	950	319	260





Note : Appearance and specifications are subject to change without notice.



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