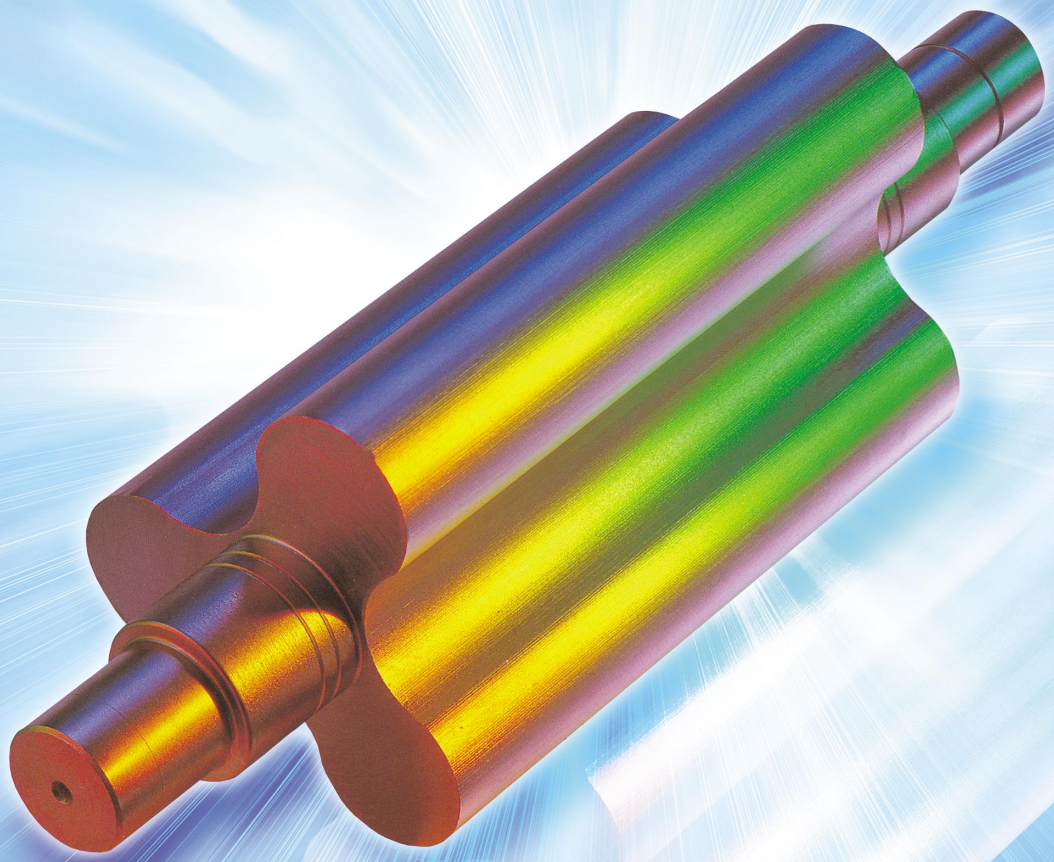
ANLET

ANLET 3 LOBES BLOWER & VACUUM PUMP



ANLET CO., LTD.

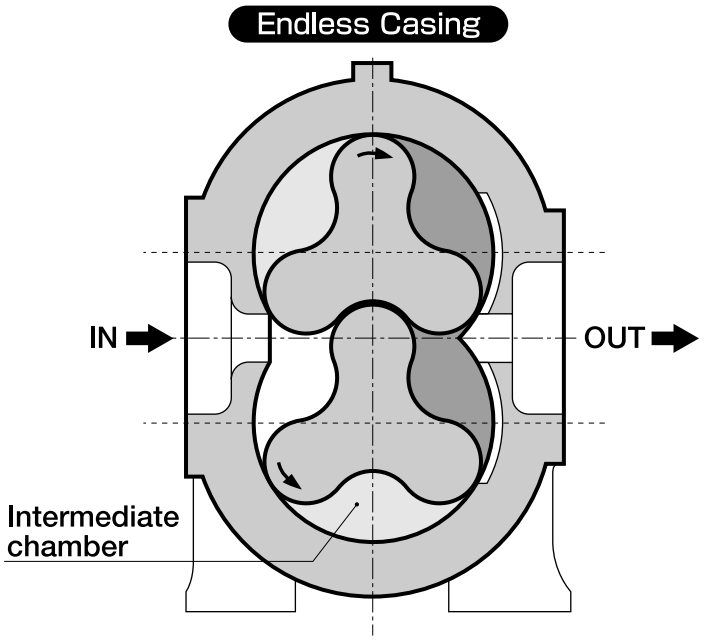
2011

■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.

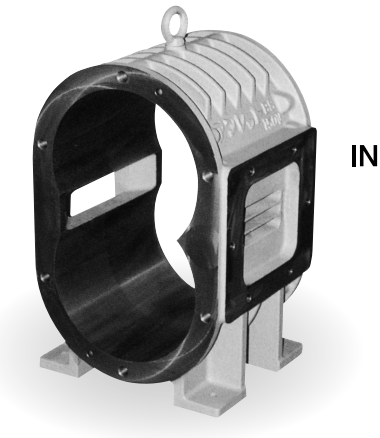
■ANLET Roots Blower's Strong Point

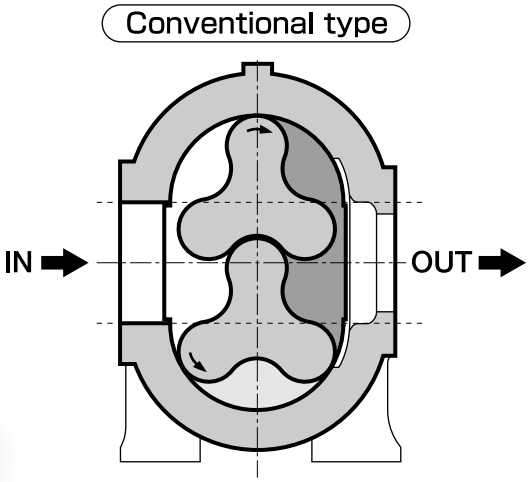
1. The three-lobe Roots-type rotor and double helical casing radically reduce noise and vibrations. The addition of endless casing has met the goal of energy savings.
2. ANLET blowers blow clean air free from admixed oil, so there is no dispersion of oil mist to foul the environment.
3. All-in-one rotor/shaft unit is wear-free, allowing for long-term continuous operation with no deterioration in blower performance.
4. Don't be fooled by their compact size. These are highly efficient blowers that can be operated at high speed.
5. Simple structure and special bearings that allow for grease replenishment give these blowers outstanding durability.
6. Each unit is equipped with a gear oil overshooter to prevent oil leakage problems.
7. Models are numerous and varied, meaning you can choose just the right type for your purposes.



■ “Endless” Construction

By enlarging the communicating angle between the casing's intake opening and exhaust opening, it has been possible to continuously maintain an intermediate chamber enveloped by rotor and casing in between the outlet and inlet sides of the unit. The pressure in this intermediate chamber lies between the intake and exhaust pressures, and the decrease in differential pressure between them saves energy because it makes for less leakage between rotor and casing at the same time that it improves the unit's volumetric efficiency and mechanical efficiency. This special design makes it difficult for the high-temperature air on the outlet side to return to the inlet side. The unit as a whole heats up far less than conventional blowers, allowing for operation at a higher load. As an added benefit, the smaller rise in temperature keeps the noise of bearings and timing gear to a minimum, while the low transmission of noise to the intake side makes the blower into an all-around quiet-running unit.





■Operating Principle

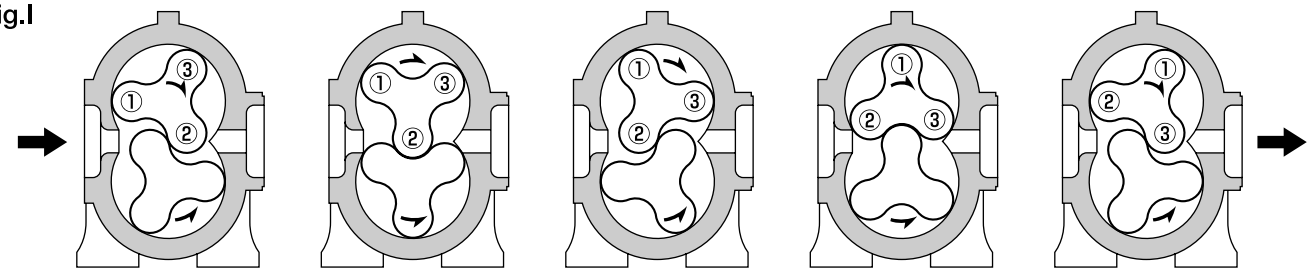
The blower is a displacement blower, and sends a fixed amount of air in proportion to its rotation speed. With the three-lobed rotors, the two rotors make six intake and exhaust cycles per revolution, and because the air has less pulses than with the two-lobed type, fluctuations in load are small, mechanical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

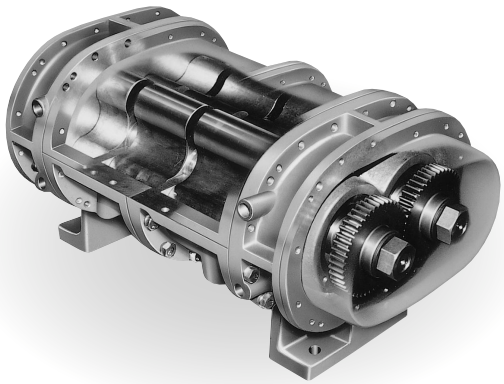
Because each rotor phase is synchronized correctly by a timing gear, there is no contact. The permits high speed and eliminates the need for internal lubrication. Moreover, the simple design, easy handling, and stable performance make possible a wide range of applications.

Fig.I



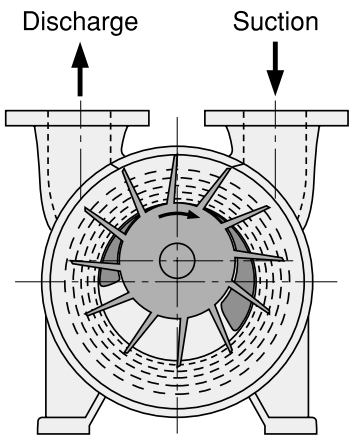
■ANLET Vacuum Pump's Strong Point

1. Endless casing, high efficiency, low noise.
2. Split casing for easier disassembly and internal inspection.
3. Integrated rotor and shaft configures three lobe rotor for low noise and low vibration.
4. No internal lubricants used eliminates oil backflow into vacuum side resulting to continues vacuum.
5. No oil mist scatter at discharge side for clean working environment and protect worker's health.
6. Can run under atmospheric pressure, stable performance over wide range of pressure <Shut off operation capable>
7. Wear free allows for long term continuous operation, simplifies maintenance management.
8. Compressed gas drain recovery possible.
9. Simple construction with exceptional durability.



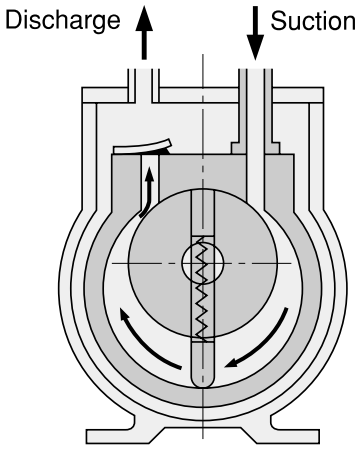
Problems with other products (But there are good points too...)

Water seal vacuum pump

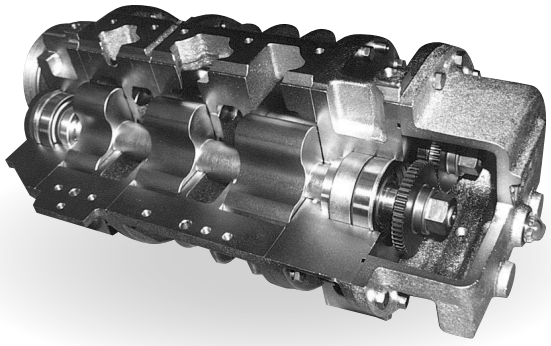


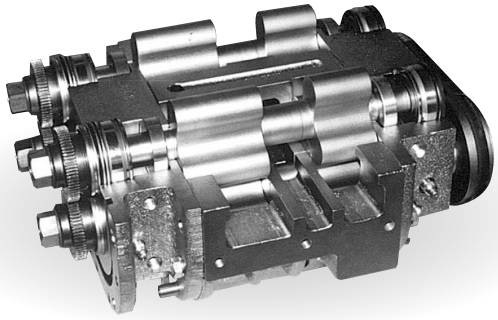
- ●High electric and water bills.
- ●Needs water treatment facility.
- ●Performance is affected by water temperature and water volume.

Hydraulic rotary vacuum pump



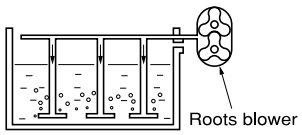
- ●Only smoke occurs at low pressure use.
- ●Does not allow mixture of steam, mist and solvents.
- ●Needs oil recovery facility, difficult maintenance.





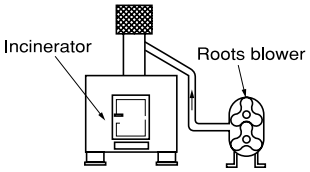
Example of usage at discharging model

Water Treatment



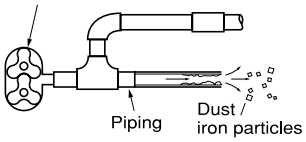
Blowers are used to purify water and stir up sediment at water treatment plants.

Incinerators



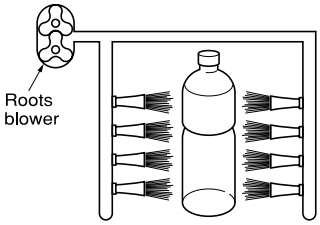
Blowers enhance combustion efficiency and promote the removal of exhaust gases.

Cleaning of Pipes



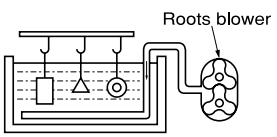
Blowers can be used to remove dust and iron particles when piping is replaced or periodically checked. They can also be used to supply various kinds of coating material to the interior of pipes.

Air Blower



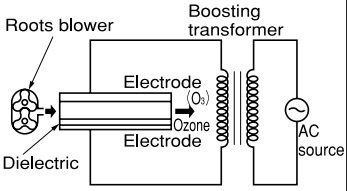
Here blower is used to blow off drops of water clinging to surfaces of cans, bottles, machine parts, etc. Air blowers can also be used as sources of cooling or drying air.

Plating Bath



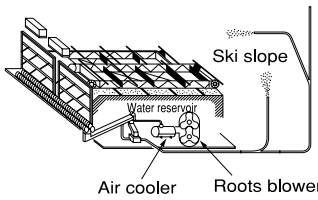
Plating quality can be enhanced by using a blower to circulate electrolytes in the plating bath to give the plating a more uniform thickness. Here blowers serve as the source of air supply.

Ozonizer



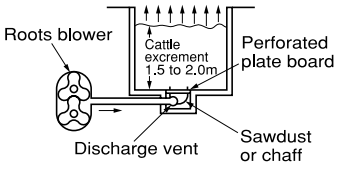
This blower is used as the air supply source for a high-concentration ozonizer.

Snow Machine



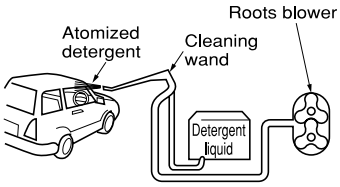
Ski resorts use blowers for pneumatic transport with artificial snow machines.

Composting by Fermentation of Livestock Excrement



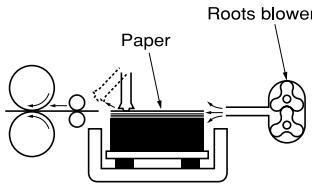
The stream of air provided by the blower promotes the fermentation of livestock excrement, etc., for efficient composting.

Atomization of Detergent



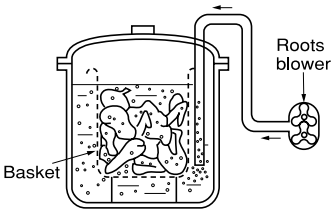
Blowers conserve energy at car washes by atomizing water and detergent.

Paper Feed for Printers



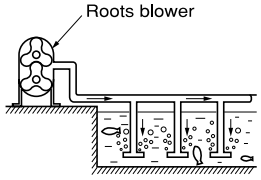
Air discharged from blowers facilitates the separation of sheets of paper as well as their distribution in neat piles after printing.

Frozen Food



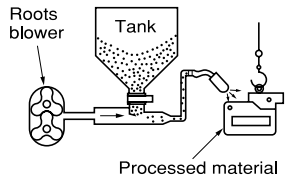
Blowers are useful in the stir-freezing of frozen foods in water.

Oxygen Supply for Aquafarms



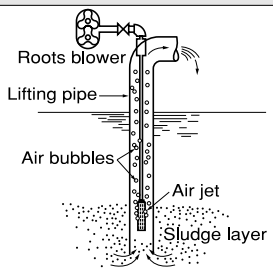
Aquafarms producing all sorts of fish and shellfish use blowers to oxygenate and circulate the water in tanks. Blowers are also used for aquariums and live fish tanks.

Sand blasting



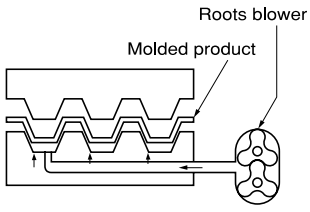
Provides a concentrated blast of air for use in sandblasting.

Airlift Pump



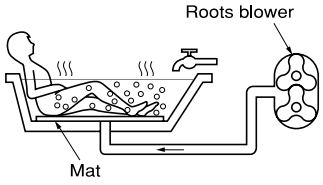
Bubbles formed by air jet lift water through the pipe by reducing the specific gravity of sewage.

Press



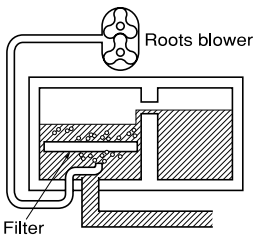
Blower is used for lift when removing molded products from the press.

Medical treatment bath



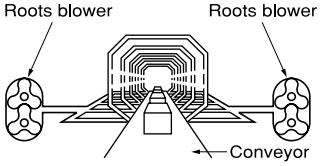
Blowers supply the air that creates the whirlpool in a Jacuzzi hot tub. Many health centers and other facilities have introduced whirlpool baths for their therapeutic effects.

Back washing



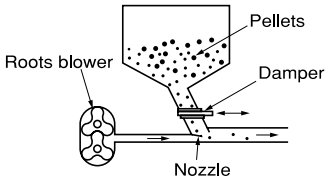
Blowers are used to optimize filter and filter material performance by backwashing.

Drying Line



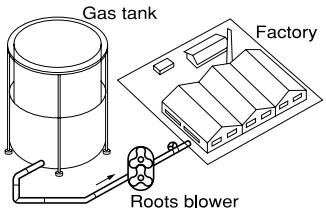
Our blowers are used to good effect in small-scale drying lines.

Particle Transportation



Blower is used for the pneumatic conveyance of pelletized raw materials such as vinyl chloride and polyethylene (The vacuum method will work here as well).

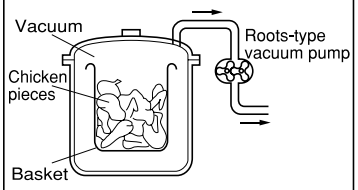
Special Gases



Blowers serve vital functions in the supply of city gas, etc.

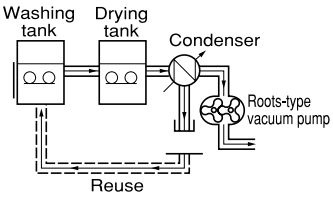
Example of usage at vacuum model

Food Processing



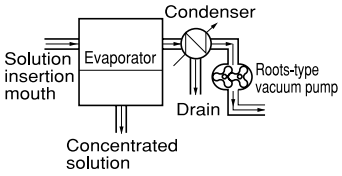
Vacuum conditions are useful in the seasoning of foods.

Vacuum Drying for Hydrocarbon Solvent Washing Machines



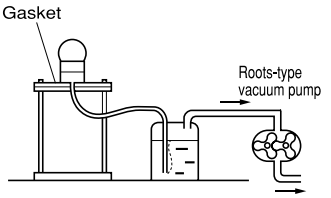
Here, a Roots-type vacuum pump that can collect solvent drainage is ideal (used with drainage pot).

Vacuum Drying for Water-based Washing Machines



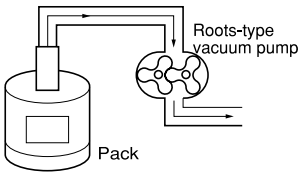
Used to vacuum dry the moisture.

Leak Tester



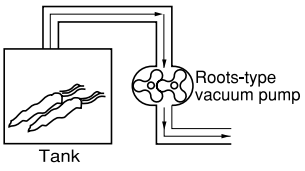
Can be used in tests of airtightness.

Vacuum Packing of Food



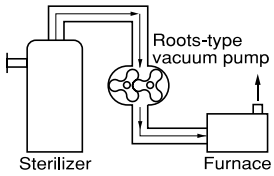
Vacuum packing keeps foods such as meat and vegetables fresh.

Freeze Drying



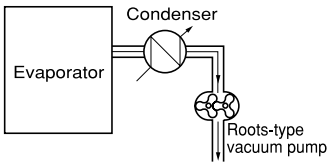
Freshness and quality of vegetables and other foods can also be preserved by freezing the foods in tanks under vacuum conditions.

Sterilization Apparatus



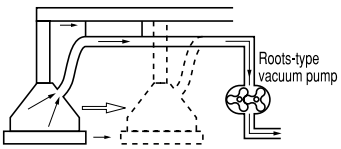
Our pumps are used as vacuum sources in sterilizers.

Concentration/Distillation



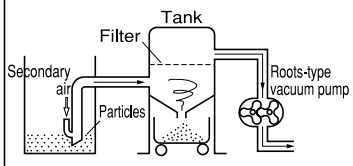
In these processes, liquids are made more concentrated by evaporation, or the vapor produced is cooled and returned once again to liquid state.

Adsorption Conveyance



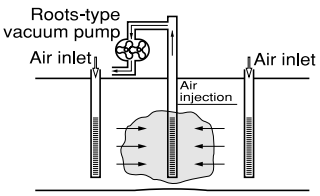
Adsorption conveyance by vacuum pump is well suited to heavy materials such as steel plates and easily breakable materials such as glass. Energy savings are promoted by the elimination of gripping operations.

Particle Transport



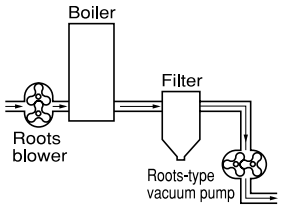
Used in the conveyance of rice, wheat, soybeans, resin pellets, etc.

Soil Remediation



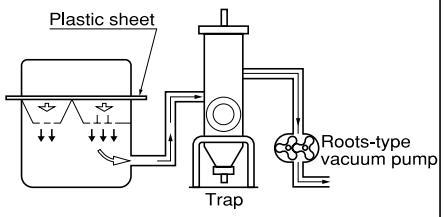
Used in the decontamination of soil and groundwater.

Combustion Gas Recovery



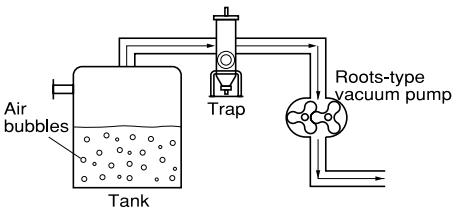
Also used in the desulfurization of high-temperature combustion gas and flue gas.

Vacuum Molding



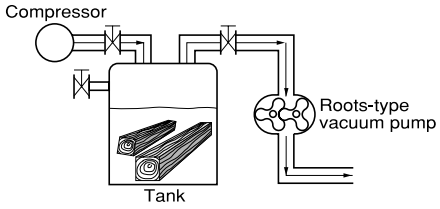
Roots-type vacuum pumps are used as vacuum sources for vacuum molders used with resins, etc. (trap attached).

Vacuum Defoaming



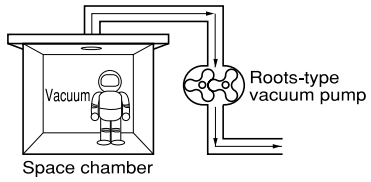
Product quality is improved for chemicals and pharmaceuticals by using a Roots-type vacuum pump to remove air bubbles by defoaming under vacuum.

Impregnation



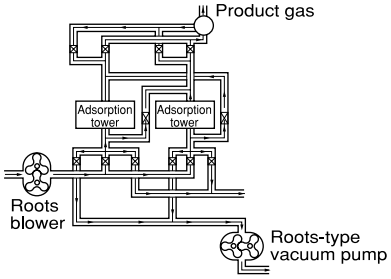
In this setup, our pumps first produce a vacuum in the tank and then supply high pressure to facilitate the impregnation of parts with liquids or gases.

Experiments in Space Environment



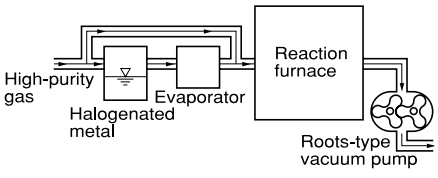
Dry vacuum pumps can be used to create a "space environment" on Earth by producing a vacuum state within a space chamber.

PSA



This configuration shows a blower used in combination with a vacuum pump.

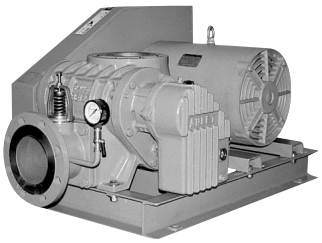
Heat Treatment



Reaction furnaces for heat treatment need to be airtight so that no oil or air will become admixed with the reactants. Roots-type vacuum pumps can meet this need.

〔Discharging model〕

BE-H Type
P7・8

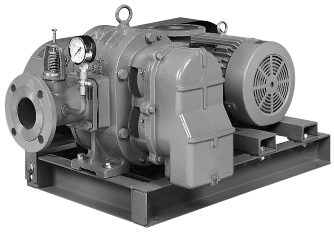


Normal pressure：0～80kPa
Bore：50・65・80・100・125・150・200・250・300・350・400mm

BH Type
P9・10

Normal pressure：0～60kPa
Bore：50・65・80・100・125・150・200・250・300・350mm

BS Type
P11・12

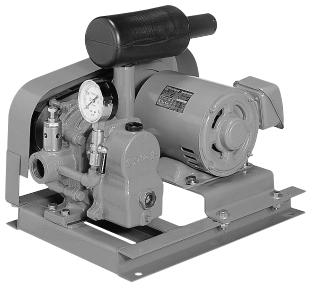


Normal pressure：0～60kPa
Bore：32・40・50・65・80・100・125・150・200・250・300mm

BWH Type
P13・14

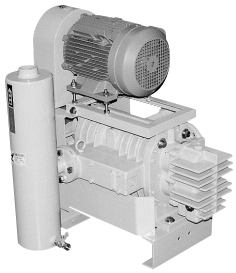
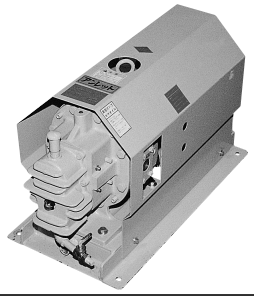
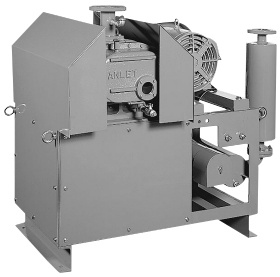
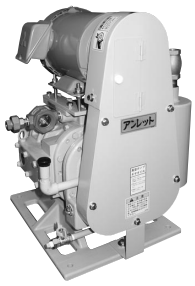
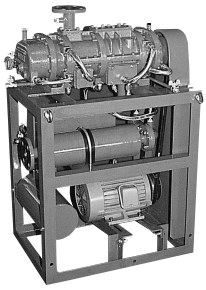
Normal pressure：0～60kPa
Bore：25・32・40・50・65・80・100・125mm

BSS Type
P15



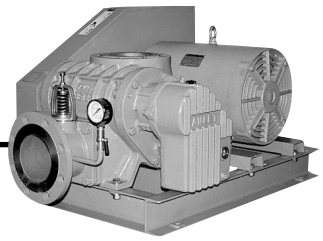
Normal pressure：0～50kPa
Bore：20・25・32・40mm

〔Vacuum model〕 Air cooled type, no-discharge operation OK.

FT2 Type P16		Ultimate pressure : 2.7kPa Designed exhaust speed : 20・45・80・150m³/H
FT3 Type P17		Ultimate pressure : 100Pa Designed exhaust speed : 25・40・50m³/H
FT3-L Type P18		Ultimate pressure : 100Pa Designed exhaust speed : 60・100・200・350・700m³/H
FT4-LE Type P19		Ultimate pressure : 10Pa Designed exhaust speed : 50・65・150・200・300・450m³/H
CT4-LE Type P20		Ultimate pressure : 10Pa Designed exhaust speed : 50・65・150・200・300・450・700m³/H
CT3 Type P21		Ultimate pressure : 100Pa Designed exhaust speed : 60・100・200・350 700・1000m³/H

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

BE-H Type



Performance Chart （1m³/min≒35.315CFM）

Model	Bore	min⁻¹	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)		70kPa (7140mmAq)		80kPa (8160mmAq)	
			m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/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 65H	2½B	2100	2.35	1.0	2.31	1.4	2.27	1.9	2.24	2.4	2.20	3.0	2.16	3.5	2.12	4.1	2.08	4.6
		2350	2.70	1.1	2.66	1.6	2.62	2.2	2.59	2.7	2.55	3.3	2.51	3.9	2.47	4.5	2.43	5.1
		2450	2.84	1.1	2.80	1.7	2.76	2.3	2.73	2.9	2.69	3.5	2.65	4.1	2.61	4.7	2.57	5.4
		2600	3.05	1.2	3.01	1.8	2.97	2.4	2.94	3.0	2.90	3.7	2.86	4.4	2.82	5.1	2.78	5.8
		2750	3.26	1.3	3.22	2.0	3.18	2.6	3.15	3.2	3.11	3.9	3.07	4.6	3.03	5.3	2.99	6.0
		2900	3.47	1.4	3.43	2.1	3.39	2.7	3.36	3.4	3.32	4.2	3.28	4.9	3.24	5.7	3.20	6.4
		3250	3.96	1.5	3.92	2.3	3.88	3.0	3.85	3.8	3.81	4.7	3.77	5.5	3.73	6.3		
BE 80H	3B	2100	3.81	1.4	3.73	2.2	3.65	2.9	3.57	3.7	3.49	4.5	3.41	5.4	3.33	6.2	3.25	7.1
		2350	4.25	1.6	4.17	2.4	4.09	3.2	4.01	4.1	3.93	5.0	3.85	5.9	3.77	6.7	3.69	7.6
		2450	4.47	1.6	4.39	2.5	4.31	3.4	4.23	4.3	4.15	5.2	4.07	6.2	3.99	7.1	3.91	8.0
		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	4.32	7.6	4.24	8.6
		2750	5.13	1.9	5.05	2.8	4.97	3.8	4.89	4.9	4.81	6.0	4.73	7.1	4.65	8.1	4.57	9.2
		2900	5.46	2.0	5.38	3.0	5.30	4.1	5.22	5.2	5.14	6.4	5.06	7.5	4.98	8.7	4.90	9.8
		3250	6.23	2.1	6.15	3.4	6.07	4.6	5.99	5.9	5.91	7.2	5.83	8.6	5.75	9.9		
BE100H	4B	2050	5.79	2.1	5.64	3.2	5.50	4.3	5.35	5.4	5.21	6.6	5.06	7.8	4.91	9.0	4.76	10.2
		2150	6.12	2.2	5.97	3.3	5.83	4.5	5.68	5.7	5.54	6.9	5.39	8.1	5.24	9.4	5.09	10.7
		2300	6.60	2.4	6.45	3.6	6.31	4.8	6.16	6.1	6.02	7.3	5.87	8.7	5.72	10.0	5.57	11.4
		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	6.04	10.4	5.89	11.8
		2700	7.88	3.0	7.73	4.4	7.59	5.8	7.44	7.3	7.30	8.8	7.15	10.3	7.00	11.9	6.85	13.4
		2900	8.52	3.2	8.37	4.8	8.23	6.4	8.08	8.0	7.94	9.6	7.79	11.3	7.64	13.0	7.49	14.7
		3050	9.00	3.4	8.85	5.1	8.71	6.7	8.56	8.5	8.42	10.2	8.27	12.1	8.12	13.9		
BE125H	5B	1750	8.8	2.8	8.7	4.6	8.6	6.5	8.5	8.3	8.4	10.2	8.3	12.0	8.2	13.8	8.1	15.6
		1950	10.0	3.0	9.9	5.1	9.8	7.2	9.7	9.3	9.6	11.4	9.5	13.4	9.4	15.5	9.3	17.5
		2150	11.2	3.4	11.1	5.7	11.0	8.0	10.9	10.3	10.8	12.6	10.7	14.9	10.6	17.2	10.5	19.4
		2400	12.7	3.9	12.6	6.5	12.5	9.0	12.4	11.6	12.3	14.2	12.2	16.8	12.1	19.4	12.0	22.0
		2700	14.5	4.6	14.4	7.4	14.3	10.4	14.2	13.2	14.1	16.2	14.0	19.1	13.9	22.1	13.8	25.0
		2900	15.7	5.0	15.6	8.0	15.5	11.1	15.4	14.3	15.3	17.5	15.2	20.6	15.1	23.8	15.0	27.0
		3050	16.6	5.3	16.5	8.4	16.4	11.7	16.3	15.1	16.2	18.4	16.1	21.8	16.0	25.1	15.9	28.5
BE150H	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	15.7	25.5	15.4	28.9
		1700	19.4	5.6	19.1	9.4	18.8	13.2	18.5	16.9	18.2	20.7	17.9	24.4	17.6	28.1	17.3	31.8
		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	18.9	29.8		
		1950	22.6	6.7	22.3	11.0	22.0	15.3	21.7	19.6	21.4	23.9	21.1	28.2	20.8	32.4		
		2100	24.5	7.3	24.2	11.9	23.9	16.6	23.6	21.2	23.3	25.9	23.0	30.5	22.7	35.1		
		2250	26.5	8.0	26.2	13.0	25.9	18.0	25.6	22.9	25.3	27.8	25.0	32.8	24.7	37.8		
		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	28.5	43.2		
BE200H	8B	1450	33.0	9.1	32.8	15.2	31.6	21.5	30.9	28.0	30.2	34.7	29.5	41.7	28.8	48.7	28.1	55.7
		1550	35.6	9.9	35.4	16.3	34.2	23.0	33.5	30.0	32.8	37.2	32.1	44.7	31.4	52.2	30.7	59.8
		1700	39.4	11.2	39.2	18.1	38.0	25.4	37.3	33.0	36.6	40.9	35.9	49.3	35.2	57.6	34.5	65.9
		1800	42.0	12.1	41.8	19.4	40.6	27.0	39.9	35.0	39.2	43.5	38.5	52.4	37.8	61.3		
		1950	45.8	13.6	45.6	21.4	44.4	29.5	43.7	38.3	43.0	47.4	42.3	57.1	41.6	66.9		
		2050	48.3	14.7	48.1	22.8	46.9	31.2	46.2	40.6	45.5	50.2	44.8	60.4	44.1	70.6		
		2150	50.9	15.9	50.7	24.3	49.5	33.1	48.8	42.9	48.1	53.1	47.4	63.8	46.7	74.5		
BE250H	10B	1250	52.4	17.9	51.7	27.2	51.0	36.6	50.3	46.6	49.6	56.1	48.9	66.1	48.2	76.1	47.5	86.1
		1350	57.0	19.5	56.3	29.6	55.6	39.8	54.9	50.6	54.2	60.9	53.5	71.7	52.8	82.5		
		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	57.4	88.9		
		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	64.4	98.8		
		1700	73.2	25.0	72.5	37.8	71.8	51.3	71.1	65.0	70.4	77.8	69.7	91.5	69.0	105		
		1800	77.8	26.6	77.1	40.2	76.4	54.6	75.7	69.0	75.0	82.6	74.3	97.2	73.6	112		
		1950	84.8	29.0	84.1	43.8	83.4	59.5	82.7	75.1	82.0	89.9	81.3	106	80.6	122		
BE300H	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				
		1350	76.8	21.4	75.8	37.2	74.8	52.9	73.8	68.6	72.8	84.4	71.8	100				
		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				

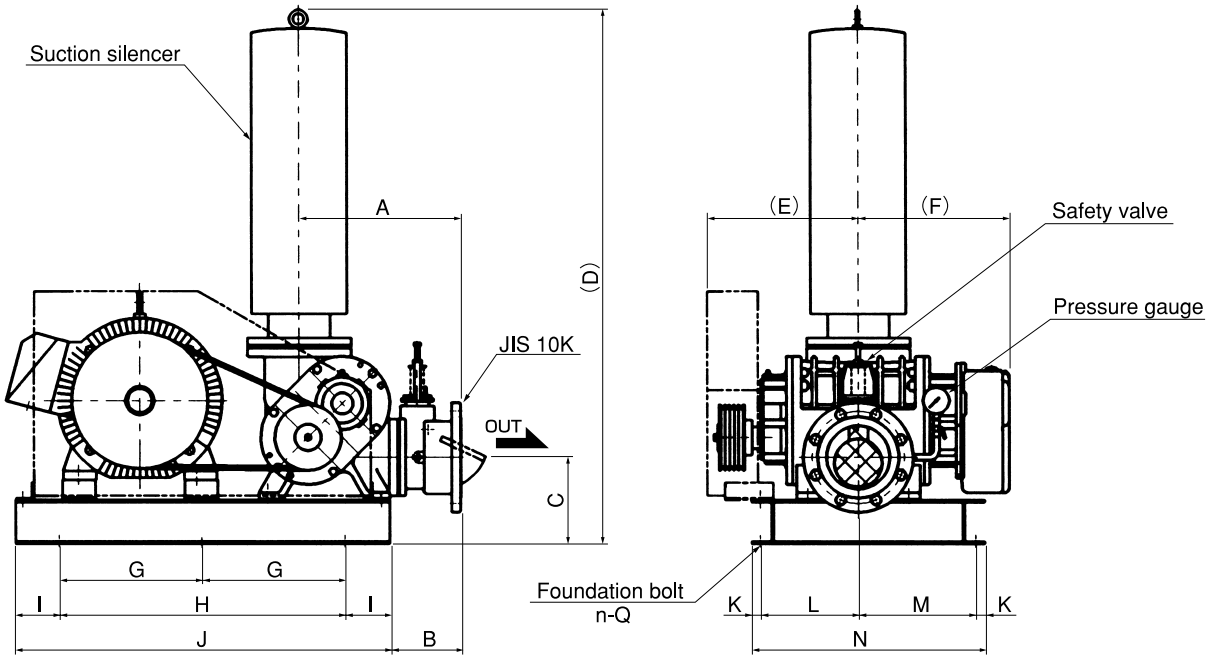
BE-H Type

Model	Bore	min^{-1}	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)		70kPa (7140mmAq)		80kPa (8160mmAq)	
			m^3/min	kW	m^3/min	kW	m^3/min	kW	m^3/min	kW	m^3/min	kW	m^3/min	kW	m^3/min	kW	m^3/min	kW
BE350H	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				
		1350	124	32.8	122	56.3	121	80.0	119	103	118	127	116	151				
		1450	134	36.3	132	61.8	131	87.4	129	113	128	138	126	164				
		1550	144	39.8	142	67.2	141	94.9	139	122	138	150	136	177				
		1650	154	43.3	152	72.6	151	102	149	132	148	161	146	190				
BE400H	16B	900	161	42	159	73	157	104	155	135	153	166	151	196				
		1050	191	51	189	87	187	123	185	159	183	195	181	232				
		1150	211	57	209	97	207	136	205	176	203	215	201	256				
		1250	230	64	228	107	226	150	224	193	222	236						
		1300	240	68	238	112	236	157	234	201	232	246						
		1350	250	72	248	118	246	165	244	211								

※Models 50 Hz type: 5BE○○H
60 Hz type: 6BE○○H

section indicates water cooled housing and gear cover (coolant water volume: 15 to 25 L/min)

Outline Drawing



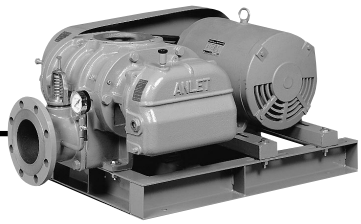
unit : mm

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 65H	2½B	272	132	142	826	225	220	—	550	50	650	18	128	171	335	4	M12	85
BE 80H	3B	277	122	152	908	270	257	—	600	50	700	18	164	250	450	4	M12	115
BE100H	4B	342	153	187	1061	250	275	—	600	100	800	20	133	312	485	4	M12	155
BE125H	5B	367	163	197	1215	345	345	—	650	100	850	20	223	267	530	4	M12	195
BE150H	6B	412	178	212	1296	475	455	—	850	100	1050	20	320	220	580	4	M12	320
BE200H	8B	532	209	262	2010	495	495	475	950	150	1250	30	300	320	680	6	M12	590
BE250H	10B	667	315	297	2090	600	595	575	1150	150	1450	30	389	331	780	6	M12	880
BE300H	12B	842	421	322	2530	640	630	625	1250	150	1550	30	421	339	820	6	M16	1210
BE350H	14B	817	333	414	3120	820	764	725	1450	150	1750	35	785	425	1280	6	M16	1900
BE400H	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～150H)

Note : Please be aware that the size of the base may differ for special motors (special-configuration motors, heteroelectric motors, motors for exclusive use in inverters, etc.) as well as motors with slide bases.
Anti-vibration mounts, rubber vibration insulators, and intake silencers with attached air filters are available as options.

BH Type



■Performance Chart （1m³/min≒35.315CFM）

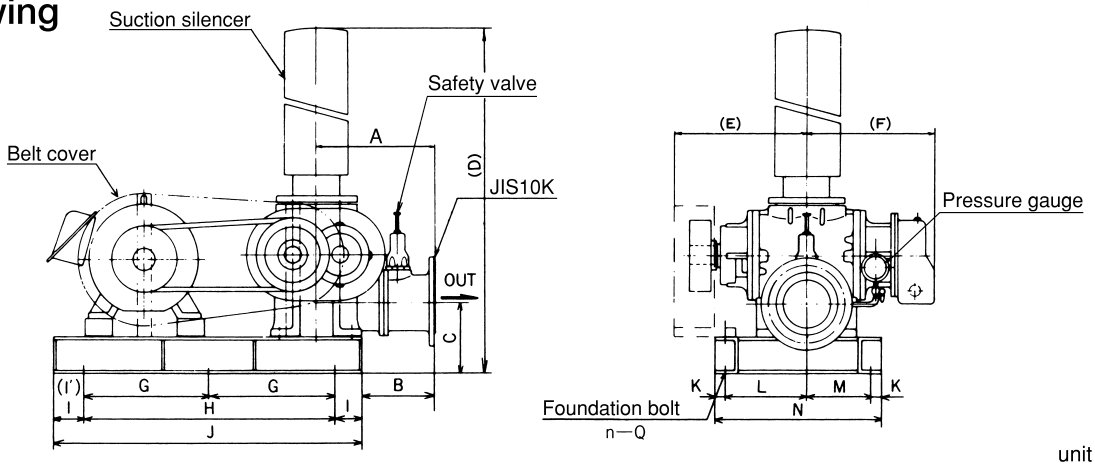
Model	Bore	min⁻¹	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW
BH 50	2B	1150	1.50	0.7	1.33	1.0	1.18	1.4	1.04	1.7	0.91	2.0	0.79	2.4
		1250	1.68	0.8	1.51	1.2	1.36	1.5	1.22	1.8	1.09	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⁻¹	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW
BH250	10B	800	34.7	9.5	34.1	16.4	33.5	23.3	32.9	30.2	32.3	37.1	31.7	44.0
		900	39.8	11.3	39.2	19.1	38.6	26.8	38.0	34.6	37.4	42.3	36.8	50.1
		1000	44.8	13.1	44.2	21.7	43.6	30.3	43.0	39.0	42.4	47.6	41.8	56.2
		1100	49.9	14.9	49.3	24.4	48.7	33.9	48.1	43.3	47.5	52.8	46.9	62.3
		1200	54.9	16.7	54.3	27.0	53.7	37.4	53.1	47.7	52.5	58.1	51.9	68.4
		1300	60.0	18.5	59.4	29.7	58.8	40.9	58.2	52.1	57.6	63.3	57.0	74.5
		1400	65.0	20.3	64.4	32.4	63.8	44.4	63.2	56.5	62.6	68.5	62.0	80.6
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



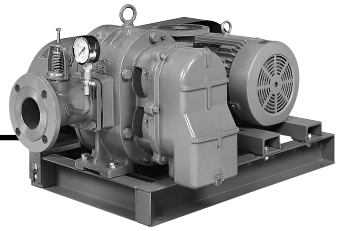
unit : mm

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	276	166	180	1477	320	288	—	600	50 (100)	750	25	185	265	500	4	M12	145
BH125	5B	327	202	190	1712	365	350	—	650	100	850	35	220	240	530	4	M12	260
BH125A	5B	327	202	190	1712	415	400	—	650	100	850	35	270	260	600	4	M12	320
BH150	6B	412	252	235	1852	430	410	—	800	100	1000	35	270	260	600	4	M12	400
BH150A	6B	412	252	235	1852	500	480	—	1000	125	1250	35	340	360	770	4	M12	490
BH200	8B	482	302	255	2007	475	450	—	1000	125	1250	35	315	255	640	4	M12	640
BH200A	8B	482	297	255	2007	540	515	600	1200	100	1400	35	380	360	810	6	M12	780
BH250	10B	622	422	295	2117	580	515	600	1200	100	1400	35	375	305	750	6	M12	900
BH250A	10B	622	422	320	2142	650	590	750	1500	100	1700	35	450	430	950	6	M14	1100
BH300	12B	782	547	340	2581	645	625	800	1600	100	1800	35	600	530	1200	6	M16	1500
BH350	14B	800	550	390	2781	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

Note : Please be aware that the size of the base may differ for special motors (special-configuration motors, heteroelectric motors, motors for exclusive use in inverters, etc.) as well as motors with slide bases.
Anti-vibration mounts, rubber vibration insulators, and intake silencers with attached air filters are available as options.

BS Type



■Performance Chart （1m³/min≒35.315CFM）

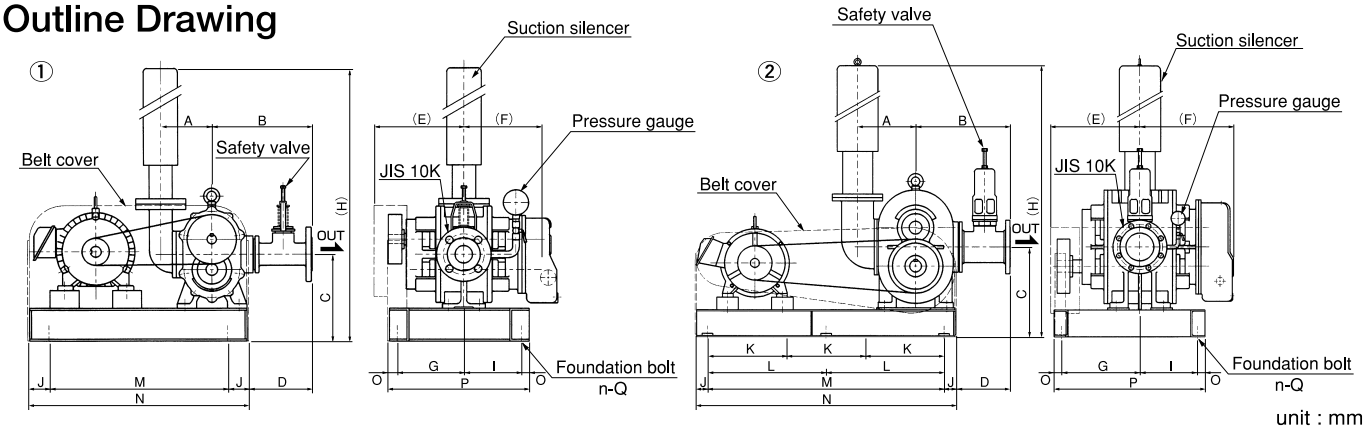
Model	Bore	min⁻¹	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW
BS 32	1¼B	1600	0.44	0.36	0.34	0.47	0.23	0.59						
		1750	0.54	0.41	0.44	0.54	0.34	0.68						
		1900	0.64	0.48	0.54	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
		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
BS 80	3B	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
		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
BS100	4B	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
		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
BS125	5B	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
		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
BS150	6B	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
		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
BS200	8B	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⁻¹	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
			m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/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
		1100	48.2	13.5	46.6	22.1	45.3	30.8	44.3	39.8	43.4	48.8	42.5	58.1
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	①
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	1577	205	100	—	—	760	960	35	600	M12	4	327	
BS125	5B	271	442	420	259	415	431	365	1907	265	50	—	550	1100	1200	35	700	M14	6	530	
BS150	6B	306	490	459	285	445	525	395	1961	335	100	—	550	1100	1300	35	800	M14	6	690	
BS200	8B	392	616	539	376	510	550	465	2123	415	100	—	750	1500	1700	35	950	M16	6	1169	②
BS200D	8B	440	677	585	407	525	585	475	2287	405	100	—	750	1500	1700	35	950	M16	6	1521	
BS250	10B	440	758	584	489	686	733	651	2238	479	100	—	800	1600	1800	35	1200	M18	6	1904	
BS250D	10B	700	842	692	517	720	775	660	2650	670	105	630	—	1890	2100	35	1400	M18	8	2420	
BS300	12B	700	797	692	472	813	850	753	2650	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

Note : Please be aware that the size of the base may differ for special motors (special-configuration motors, heteroelectric motors, motors for exclusive use in inverters, etc.) as well as motors with slide bases.
Anti-vibration mounts, rubber vibration insulators, and intake silencers with attached air filters are available as options.

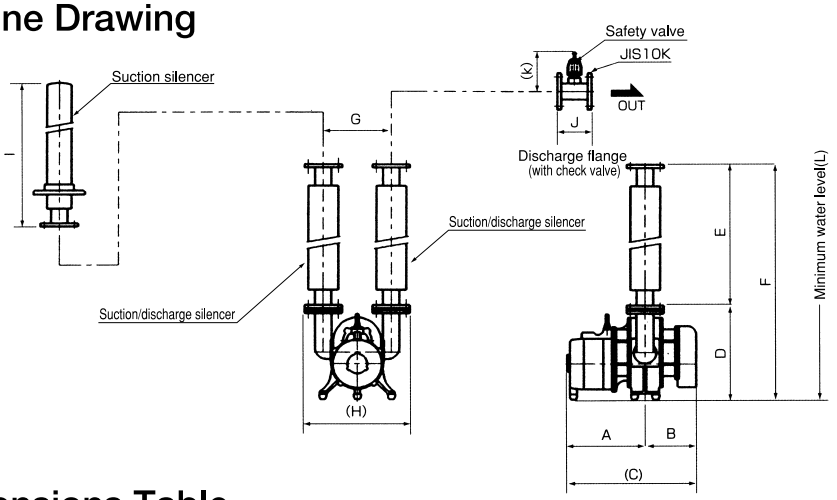
BWH Type

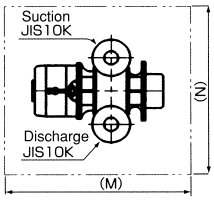
■Performance Chart

Frequency Hz	Model	Bore	Submersible motor 3-phase/ 200VX4P	Standard suction state air capacity (m³/min) and power requirements (kW)											
				10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)		60kPa (6120mmAq)	
				m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/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

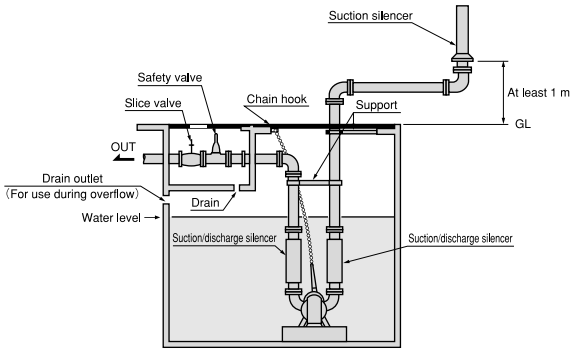
unit : mm

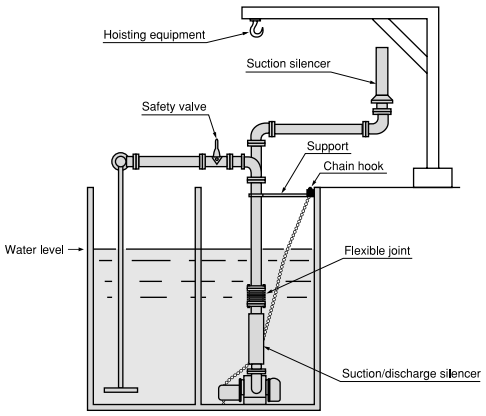
Model	Bore	A	B	C	D	E	F	G	H	I	J	K	L	N	Cab tire cable	Weight (kg)
BWH2504	25A	228	133	361	276	414	690	176	301	580	130	140	500	700×500 or φ600	1.25mm²×6m	56
BWH2504A	25A	243	148	391	276	414	690	176	301	580	130	140	500			59
BWH3208	32A	257	148	405	292	418	710	192	327	580	135	145	550			69
BWH3208A	32A	272	163	435	292	418	710	192	327	580	135	145	550			74
BWH4015	40A	296	183	479	319	578	897	240	380	650	150	145	650	700×500 or φ900	1.25mm²×10m	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			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	900×600 or φ900		137
BWH5022D	50A	343	216	559	398	815	1213	312	467	870	150	150	850			166
BWH5037	50A	337	223	560	398	815	1213	298	453	870	150	150	850		2mm²×10m	161
BWH6522	65A	342	217	559	398	785	1183	312	487	870	160	160	850		1.25mm²×10m	174
BWH6537	65A	355	240	595	408	785	1193	317	492	870	160	160	850		2mm²×10m	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		3.5mm²×10m	205
BWH8055	80A	407	278	685	445	900	1345	332	517	1120	190	200	950	900×600		251
BWH8075	80A	459	295	754	445	900	1345	332	517	1120	190	200	950		5.5mm²×10m	268
BWH10075	100A	424	255	679	425	900	1325	420	630	1120	200	210	950	1200×800		313
BWH10011	100A	452	255	707	445	900	1345	420	630	1120	200	210	950		2—5.5mm²×10m	363
BWH12575	125A	424	255	679	425	1000	1425	460	710	1215	200	225	1000		5.5mm²×10m	363
BWH12511	125A	502	305	807	445	1000	1445	460	710	1215	200	225	1000		2—5.5mm²×10m	413
BWH12515	125A	552	305	857	445	1000	1445	460	710	1215	200	225	1000		2—8mm²×10m	423

(Mass value includes standard accessories.)

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

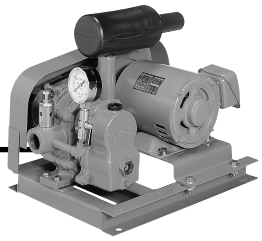
■Typical installation





- 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.

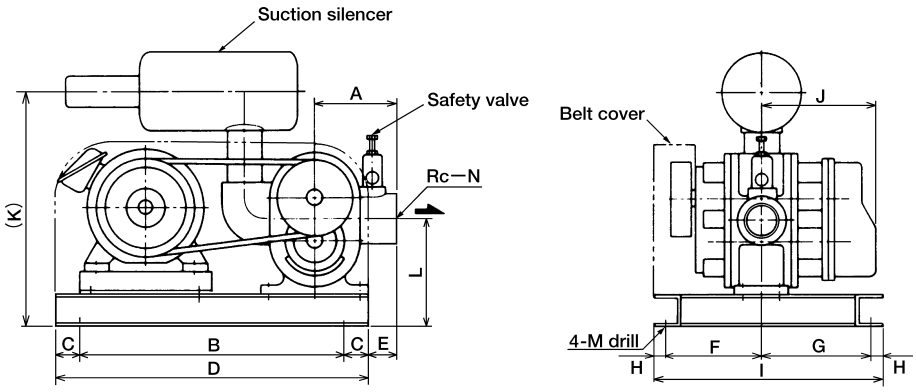
BSS Type



■Performance Chart （1m³/min≒35.315CFM）

Model	Bore	min⁻¹	10kPa (1020mmAq)		20kPa (2040mmAq)		30kPa (3060mmAq)		40kPa (4080mmAq)		50kPa (5100mmAq)	
			m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/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

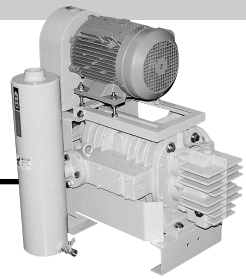


unit : mm

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

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

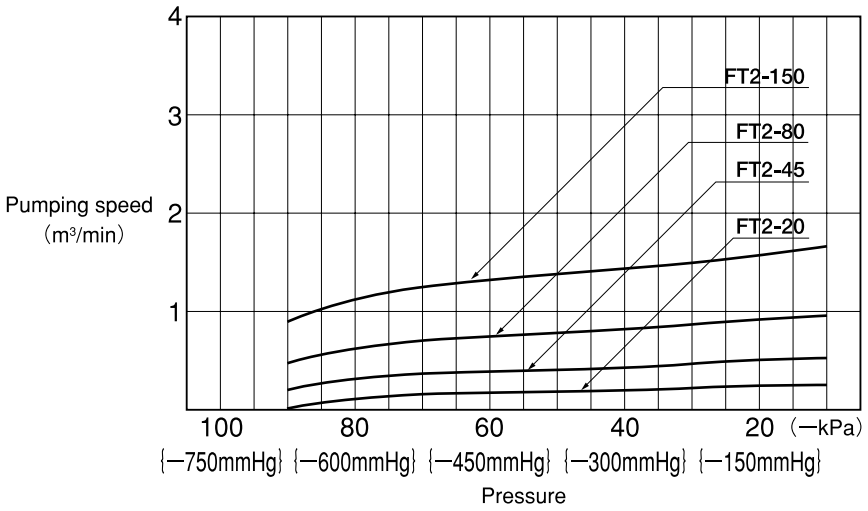
FT2 (Air cooled type) Type



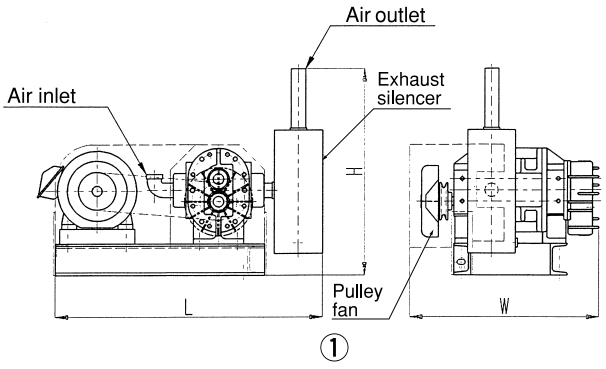
■Performance Chart

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^3/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^{-1})	2800	3000	3000	1700
Ultimate pressure (kPa)	8 {60Torr}	5.3 {40Torr}	5.3 {40Torr}	4 {30Torr}
Noise dB (A) 8kPa {60Torr} at 1m	72	74	78	80

■Performance curve



■Outline Drawing



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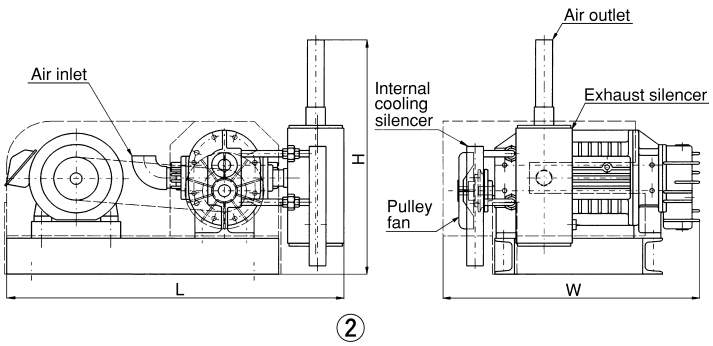

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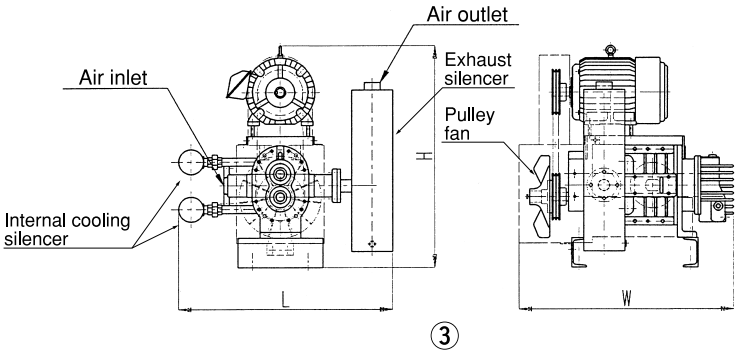


③

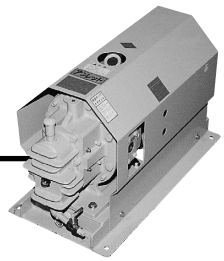
unit : mm

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

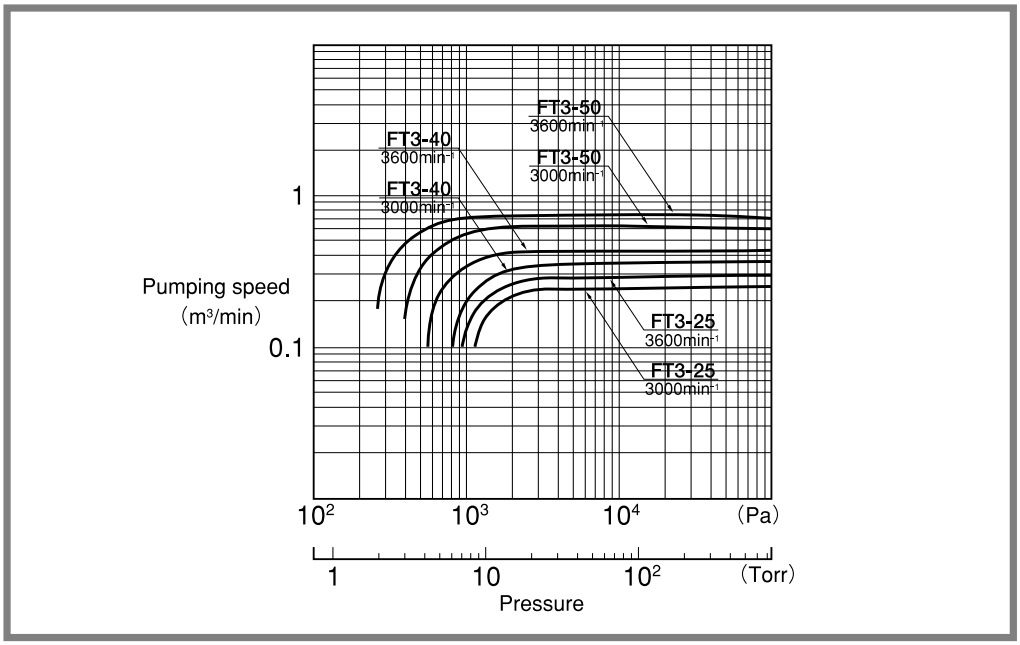


■Performance Chart

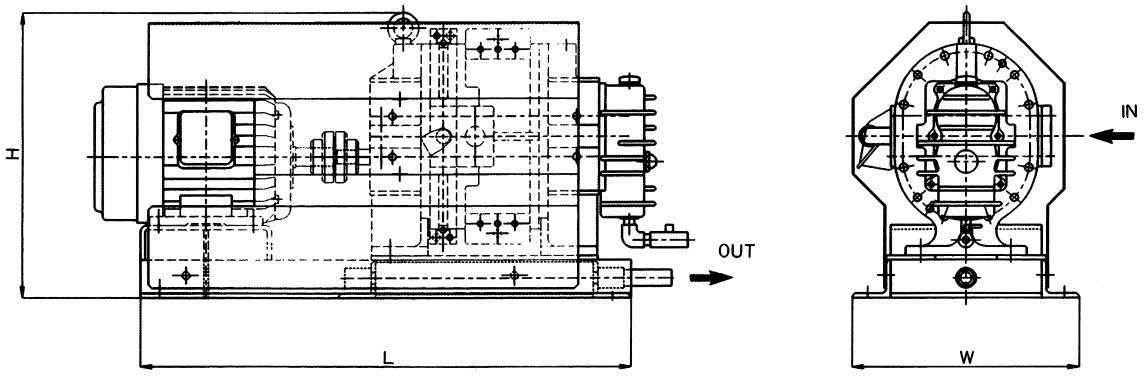
Specification / Model	FT3-25		FT3-40		FT3-50	
Suction bore (A)	20		20		20	
Discharge bore (A)	10		15		15	
Designed exhaust speed (m^3/min)	0.36	0.43	0.52	0.62	0.77	0.93
Motor output (kW)	0.75		1.5		1.5	
Rotation speed (min^{-1})	3000／50Hz	3600／60Hz	3000／50Hz	3600／60Hz	3000／50Hz	3600／60Hz
Noise dB (A) 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



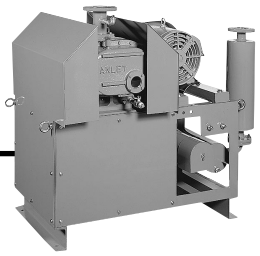
unit : mm

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 (otally-enclosed fan-cooled type)・Base・
Wind guide・Coupling

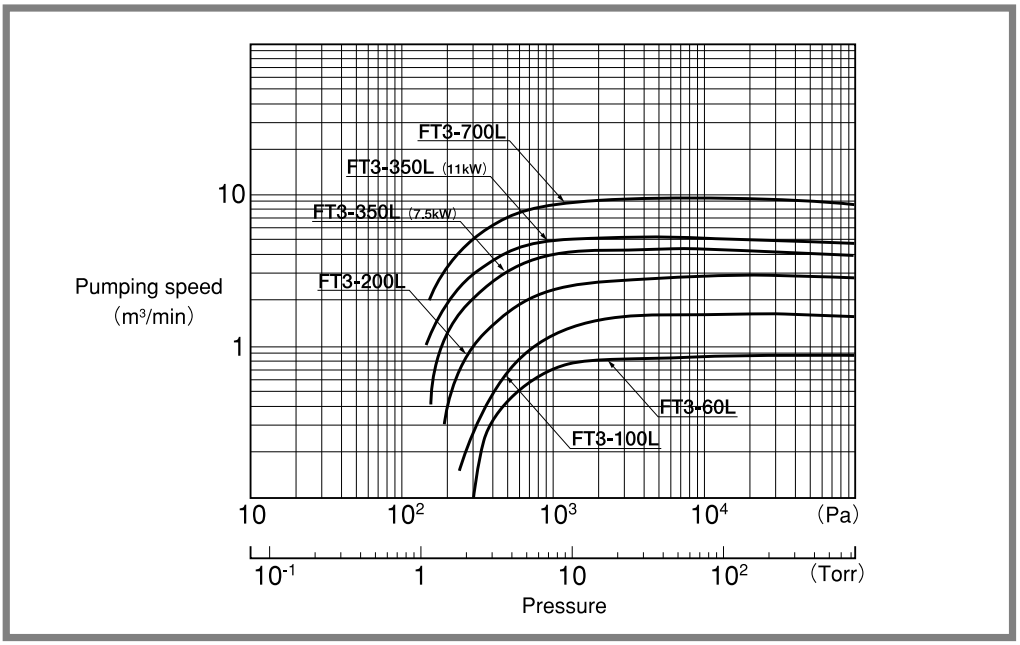
FT3-L (Air cooled type) Type



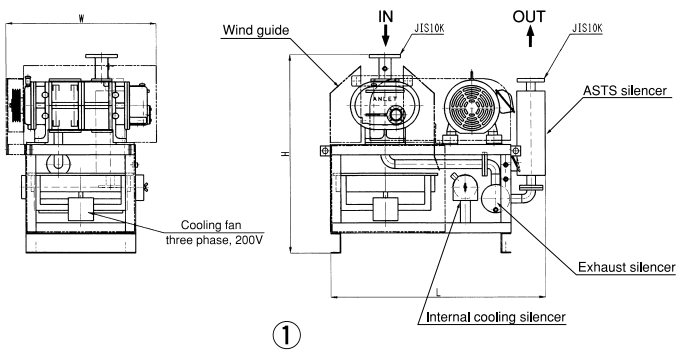
■Performance Chart

Specification / Model	FT3-60L	FT3-100L	FT3-200L	FT3-350L		FT3-700L
Suction bore (A)	40	40	50	65		80
Discharge bore (A)	25	25	32	50		65
Designed exhaust speed (m^3/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^{-1})	1800	2300	2000	1600	2000	1700
Cooling fan output (W)	50	150	200	750		750
Noise dB (A) 133Pa {1Torr} at 1m	75	76	78	81	83	85

■Performance curve



■Outline Drawing



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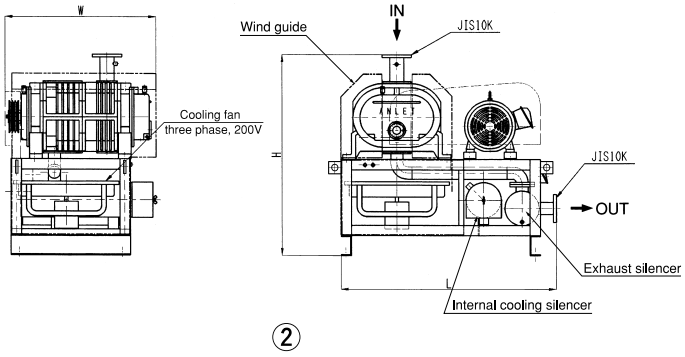


②

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

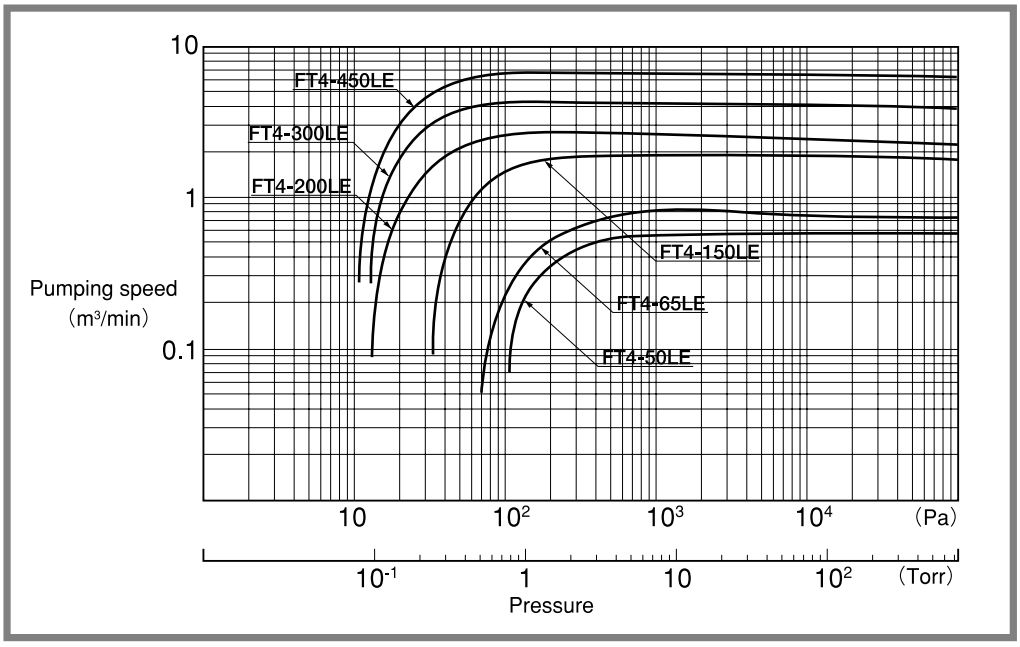
FT4-LE (Air cooled type) Type

■Performance Chart

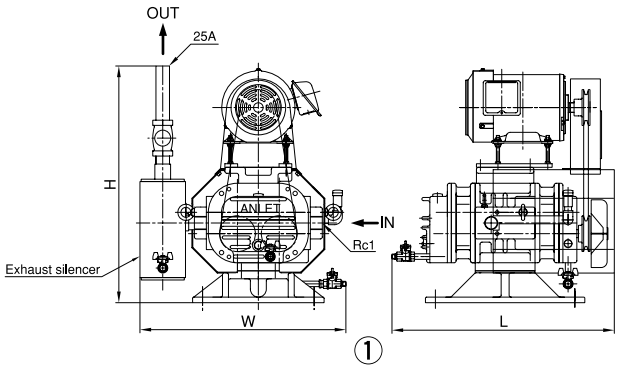
Specification \ Model	FT4-50LE	FT4-65LE	FT4-150LE	FT4-200LE	FT4-300LE	FT4-450LE
Suction bore (A)	25	25	50	50	80	80
Discharge bore (A)	25	25	40	40	50	50
Designed exhaust speed (m^3/min)	0.77	0.91	2.38	3.22	5.23	7.21
Motor output (kW)	1.5	2.2	3.7	5.5	7.5	11
Rotation speed (min^{-1})	2800	3300	1700	2300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

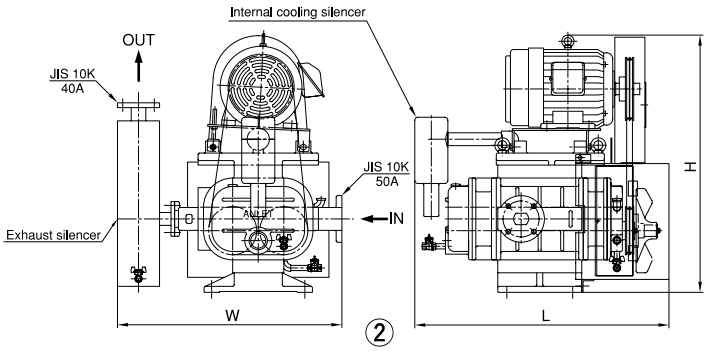
＊FT4-50LE/65LE motors: three phase, 200V, 2P. FT4-150LE～450LE motors: three phase, 200V, 4P

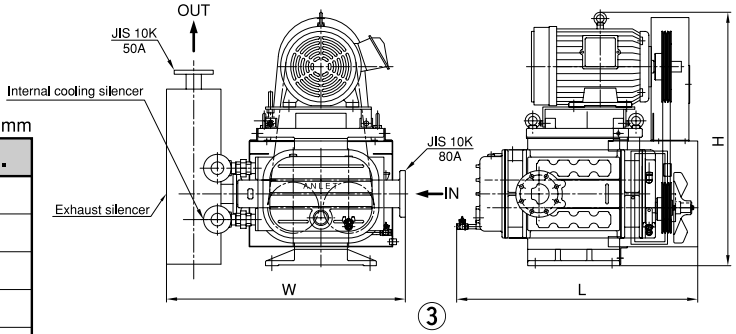
■Performance curve



■Outline Drawing







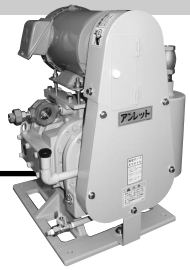
unit : mm

Model	L	W	H	Weight (kg)	No.
FT4-50LE	558	517	594	130	①
FT4-65LE	558	517	594	134	①
FT4-150LE	845	746	855	360	②
FT4-200LE	845	746	855	370	②
FT4-300LE	957	949	1006	630	③
FT4-450LE	957	949	1006	655	③

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

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

CT4-LE (Water cooled model) Type

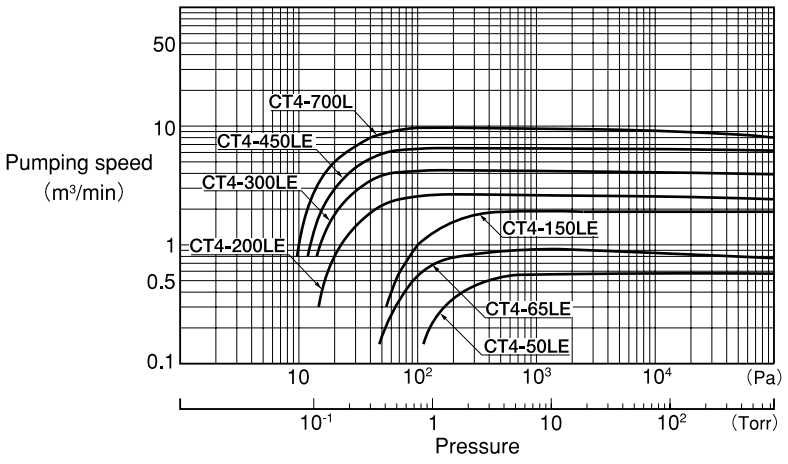


■Performance Chart

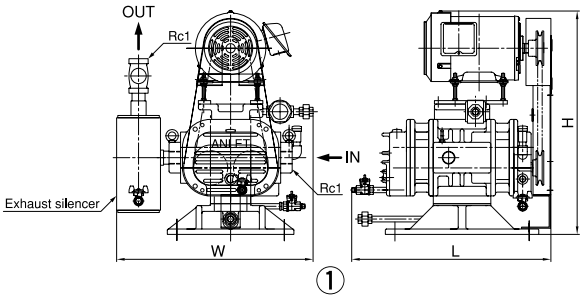
Specification \ Model	CT4-50LE	CT4-65LE	CT4-150LE	CT4-200LE	CT4-300LE	CT4-450LE	CT4-700L
Suction nozzle diameter (A)	25	25	50	50	80	80	80
Discharge nozzle diameter (A)	25	25	40	40	50	50	65
Design discharge rate (m^3/min)	0.77	1.00	2.38	3.22	5.23	7.21	11.5
Motor output (kW)	1.5	2.2	3.7	5.5	7.5	11	15
RPM (min^{-1})	2800	3600	1700	2300	1450	2000	2000
Cooling water (l/min)	2	2	7	7	15	15	15
Noise dB (A) 133Pa {1Torr} at 1m	73	74	77	79	83	85	85

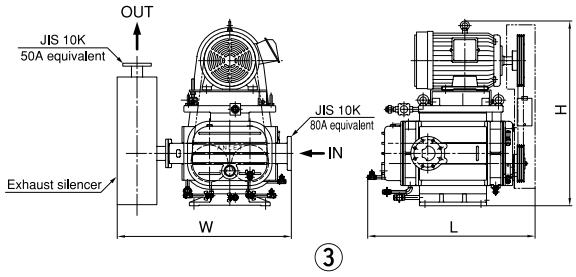
* CT4-50LE/65LE motor: 3-Phase, 200V, 2P. CT4-150LE～450LE/700L motor: 3-Phase, 200V 4P
* For CT4-200L/CT4-450L. please contact us for details.
* Higher vacuum and displacement are achieved in combination with mechanical booster (ST1 Model).

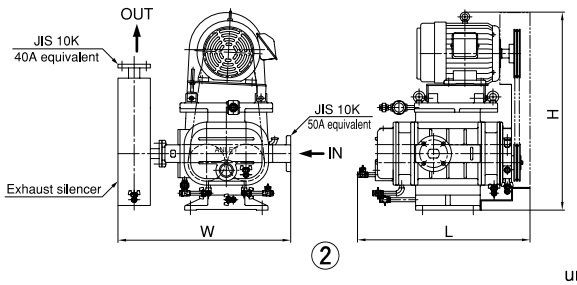
■Performance curve

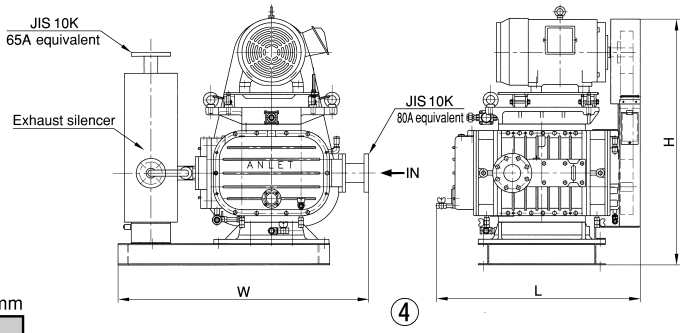


■Outline Drawing









unit : mm

Model	L	W	H	Weight (kg)	No.
CT4-50LE	520	513	583	130	①
CT4-65LE	520	513	583	134	①
CT4-150LE	745	746	855	360	②
CT4-200LE	745	746	855	370	②
CT4-300LE	912	949	1006	630	③
CT4-450LE	912	949	1006	655	③
CT4-700L	960	1185	1155	1100	④

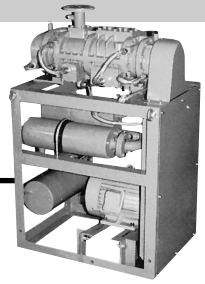
● Weight is approximate value including standard auxiliary parts.

● Standard accessories:
Base, belt cover, V-pulley, V-belt, exhaust silencer (CT4-150/200 is equipped with after cooler.), internal cooler (for CT-4-300/450 only), cooling water piping, foundation bolts

* Standard accessories:
Characteristic curves and dimensional drawings can be also referenced at our home page (http://www.anlet.co.jp).
Please visit our site.

★Please check the cooling water quality avboid trouble.

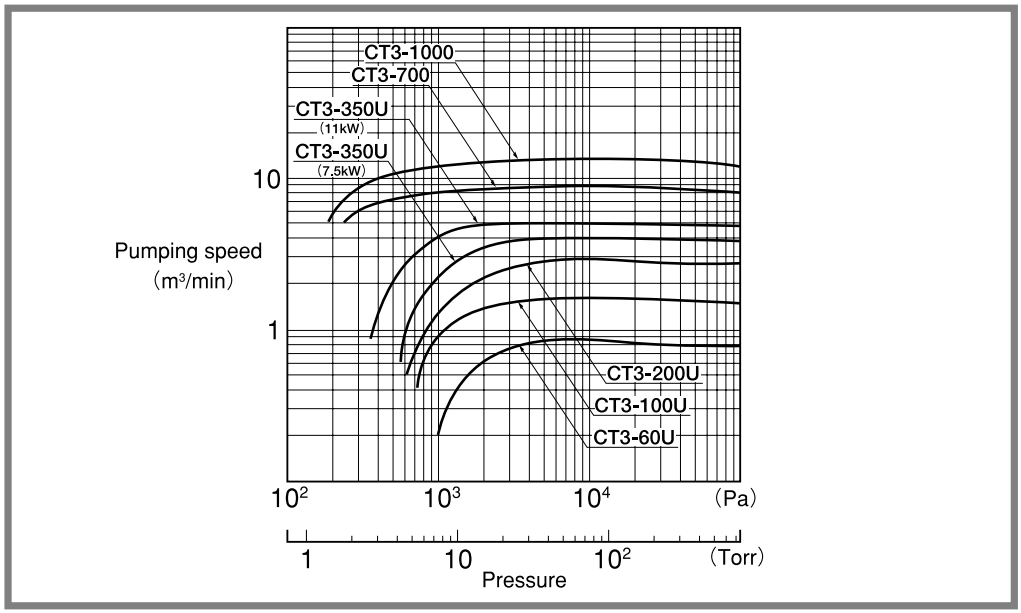
CT3 (Water cooled model) Type



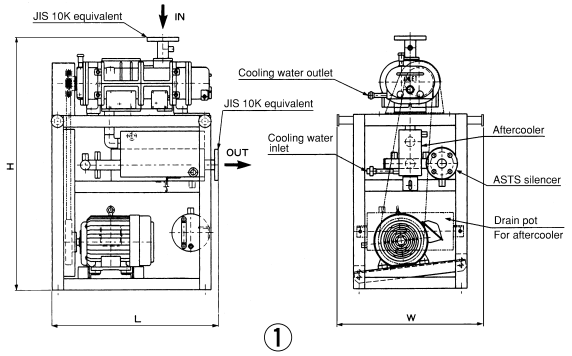
■Performance Chart

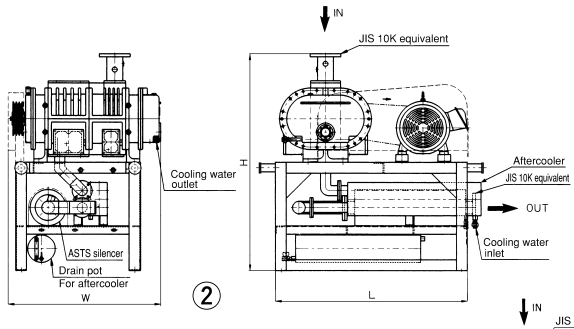
Specification \ Model	CT3-60U	CT3-100U	CT3-200U	CT3-350U		CT3-700	CT3-1000
Suction nozzle diameter (A)	40	40	50	65		80	100
Discharge nozzle diameter (A)	25	32	40	50		65	65
Design discharge rate (m^3/min)	1.26	2.08	3.82	5.13	6.41	11.3	16.1
Motor output (kW)	2.2	3.7	5.5	7.5	11	15	22
RPM (min^{-1})	1800	2300	2000	1600	2000	1700	1700
Cooling water (l/min)	7	7	10	12		15	20
Noise dB (A) 4kPa {30Torr} at 1m	72	74	77	80	82	85	86

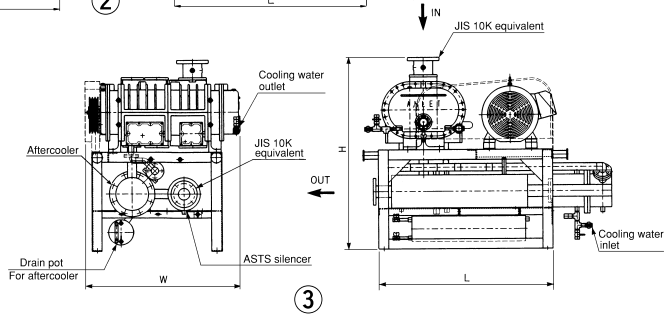
■Performance curve



■Outline Drawing







unit : mm

Model	L	W	H	Weight (kg)	No.
CT3-60U	686	610	1100	170	①
CT3-100U	733	660	1100	190	①
CT3-200U	796	700	1250	270	①
CT3-350U	1060	900	1450	470	①
CT3-700	1150	915	1300	1120	②
CT3-1000	1150	1025	1255	1460	③

● Weight is approximate value including standard auxiliary parts.

● Standard accessories:
Base, belt cover, V-pulley, V-belt, exhaust silencer (ASTS), aftercooler, cooling water piping, drain pot for aftercooler, foundation bolts

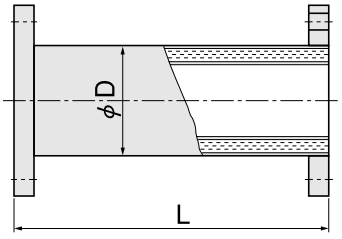
＊ Standard accessories:
Characteristic curves and dimensional drawings can be also referenced at our home page (http://www.anlet.co.jp).
Please visit our site.

★Please check the cooling water quality avboid trouble.

Special Accessories

＊Specially attached connecting flange is equivalent to JIS10K.

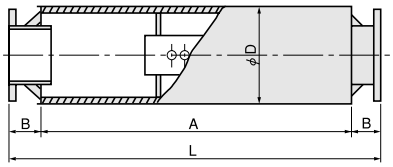
Delivery silencer ADS



unit：mm

Model	D	L	Weight (kg)
ADS20A	43	525	4.0
ADS25A	43	525	4.5
ADS32A	49	525	5.3
ADS40A	61	580	6.5
ADS50A	76	815	9.1
ADS65A	76	785	11.7
ADS80A	89	900	12.6
ADS100A	114	900	17.8
ADS125A	140	1000	27.8
ADS150A	165	1000	31.2
ADS200A	216	1000	42.5
ADS250A	267	1000	72.0
ADS300A	319	1000	88.0

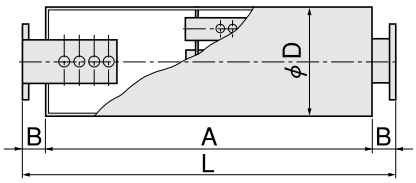
Delivery silencer AGOS



unit：mm

Model	A	B	D	L	Weight (kg)
AGOS25A	286	64	114	414	5.7
AGOS32A	412	60	140	532	8.8
AGOS40A	460	60	165	580	10
AGOS50A	695	60	216	815	19
AGOS65A	665	60	216	785	18
AGOS80A	770	65	216	900	22
AGOS100A	860	70	216	1000	26
AGOS125A	1040	110	267	1260	42
AGOS150A	1200	90	319	1380	56
AGOS200A	1600	90	356	1780	94
AGOS250A	1600	100	406	1800	124
AGOS300A	1800	100	457	2000	155
AGOS350A	1800	100	508	2000	195
AGOS400A	2000	150	559	2300	280

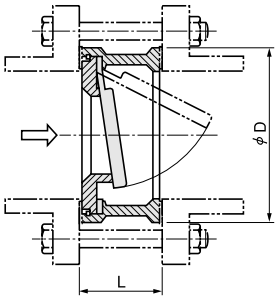
Delivery silencer ASNS



unit：mm

Model	A	B	D	L	Weight (kg)
ASNS40A	460	60	219	580	18
ASNS50A	695	60	219	815	21
ASNS65A	665	60	219	785	25
ASNS80A	770	65	219	900	29
ASNS100A	860	70	270	1000	39
ASNS125A	1090	85	321	1260	50
ASNS150A	1210	85	409	1380	98
ASNS200A	1600	90	460	1780	125
ASNS250A	1600	100	511	1800	178
ASNS300A	1800	100	613	2000	290
ASNS350A	1800	100	714	2000	380
ASNS400A	2000	150	816	2300	500

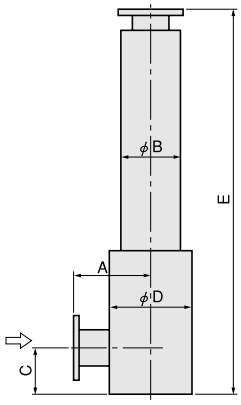
Check valve AC-F



unit：mm

Model	D	L	Weight (kg)
AC32F	81	43	0.8
AC40F	86	43	0.9
AC50F	101	43	1.2
AC65F	121	50	1.8
AC80F	131	60	2.3
AC100F	156	70	3.5
AC125F	187	100	5.8
AC150F	217	140	9.0
AC200F	267	180	16
AC250F	330	220	20
AC300F	375	260	25

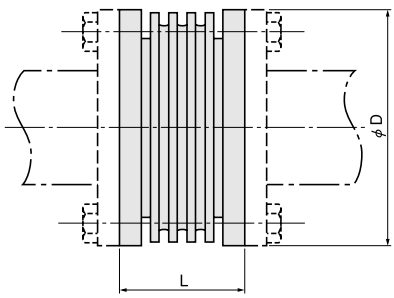
Delivery silencer AGL-V
(For atmosphere relief)



unit：mm

Model	A	B	C	D	E	Weight (kg)
AGL40VA	150	114	100	140	770	18
AGL50VA	170	140	100	165	820	20
AGL65VA	190	165	120	216	1000	27
AGL80VA	210	165	140	216	1150	31
AGL100VA	250	202	170	319	1390	47
AGL125VA	300	255	180	406	1700	60
AGL150VA	330	319	200	457	1800	83

Flexible joint (rubber) AFD-N



unit：mm

Model	D	L	Weight (kg)
AFD25N	125	100	1.5
AFD32N	135	100	1.6
AFD40N	140	100	1.7
AFD50N	155	100	2.1
AFD65N	175	100	2.4
AFD80N	185	100	2.8
AFD100N	210	100	3.3
AFD125N	250	100	4.5
AFD150N	280	100	10.7
AFD200N	330	150	15.2

Trap (pump protection device)

Used to capture fine particles, oil mist, etc. Excellent for dry vacuum pumps!!
Caputre efficiency is high, maintainability is good.

Model AT (D)

Common trap

※ (D) : with drain pot

●AT

Model ATE

Simple, compact trap

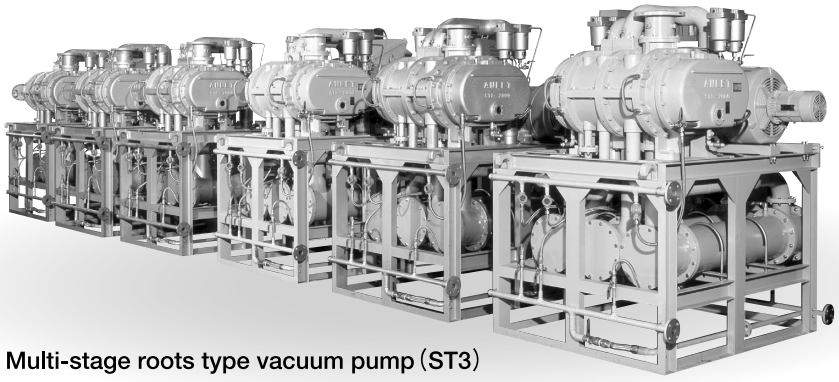
- ●Small and compact
- ●Easy maintenance
  - ・Amount of dirt and drain can be checked visually
  - ・Simple and easy even without removing piping

●ATE

Model HA

High corrosion resistance (SUS304 specification)

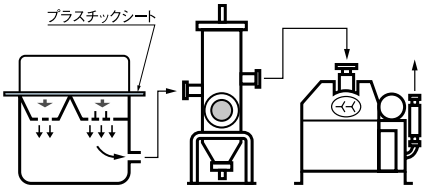
●HA



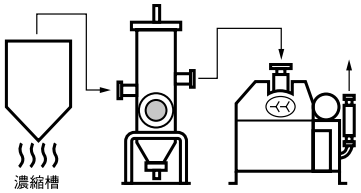
Multi-stage roots type vacuum pump (ST3)

Examples of use

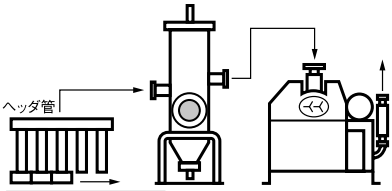
●Vacuum forming



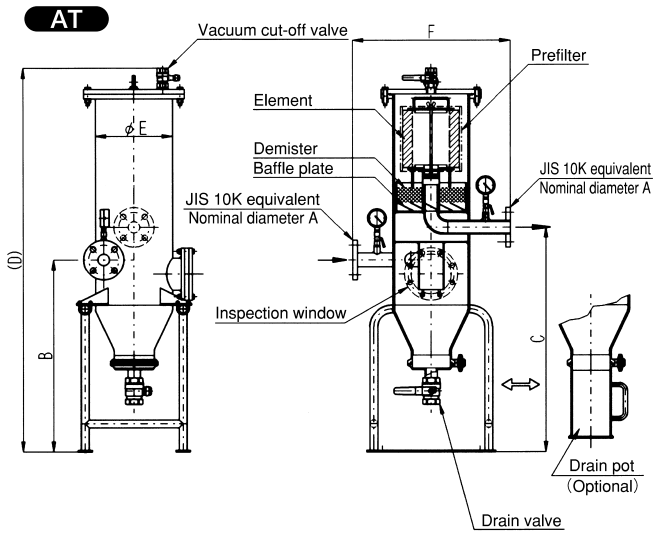
●Vacuum drying, concentration

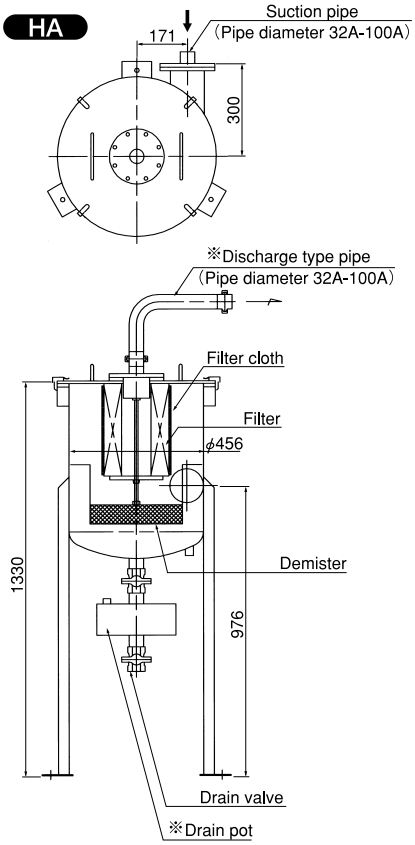


●Suction transport

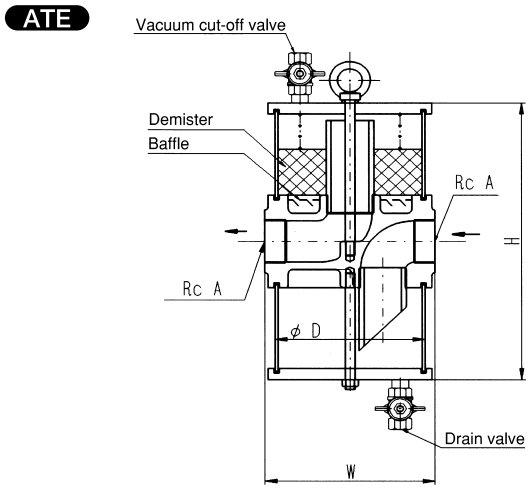


■Dimensional Drawing





※Drain pot and discharge type piping are optional.



■AT (Model) Dimension chart/corresponding model unit : mm

Model	A	B	C	D	E	F	Weight (kg)
AT 40A (D)	40	680	795	1360	267.4	550	79 (83)
AT 50A (D)	50	875	1000	1560	318.5	620	120 (124)
AT 65A (D)	65	875	1000	1560	318.5	620	121 (125)
AT 80A (D)	80	875	1000	1560	318.5	620	123 (127)
AT100A (D)	100	1010	1150	1800	457.2	750	220 (230)

※Figure inside ( ) nuder weight column refer to weight when drain pot is attached.

Model	Corresponding vacuum pump (rough standard)		
AT 40A (D)	FT3-60L CT3-100U	FT3-100L	CT3-60U
AT 50A (D)	FT3-200L ST3-200F CT4-150LE	CT3-200U FT4-150LE CT4-200LE	ST3-150F FT4-200LE
AT 65A (D)	FT3-350L	CT3-350U	ST3-300F
AT 80A (D)	FT3-700L ST3-600F CT4-300LE	CT3-700 FT4-300LE CT4-450LE	ST3-500F FT4-450LE CT4-700L
AT100A (D)	CT3-1000	ST3-1000	

■ATE (Model) Dimension chart/corresponding model unit : mm

Model	A	D	W	H	Weight (kg)
ATE25	25	110	130	250	3.2
ATE40	40	150	170	300	6.0
ATE50	50	180	210	350	8.6
ATE80	80	250	290	420	20.7

Model	Corresponding vacuum pump (rough standard)	
ATE25	CT4-50LE FT4-50LE	CT4-65LE FT4-65LE
ATE40	CT3-60U FT3-60L	CT3-100U FT3-100L
ATE50	CT3-200U CT4-150LE FT4-150LE	FT3-200L CT4-200LE FT4-200LE
ATE80	CT3-350U CT4-300LE FT4-300LE	FT3-350L CT4-450LE FT4-450LE

How to Determine the Evacuation Period

When air is evacuated from a system, reducing the pressure from P_1 to P_2, the relationship of volume (V = liters (L)) and the evacuation speed of the vacuum pump (S = L/min) to time (t = min) is generally expressed by the following equation (low vacuum > 10 PA: viscous flow).

$$t = 2.3K \frac{V}{S} \log \frac{P_1}{P_2}$$

Depending upon the pressure range, the correction coefficient, K, is calculated as follows.

(Pressure range)	(Correction coefficient)
$10^5 \sim 10^3$ Pa	K=1
$10^3 \sim 10^2$ Pa	K=1.5
$10^2 \sim 10^1$ Pa	K=~3

Calculation Example

The evacuation speed of the vacuum pump is as follows when a vacuum tank with interior capacity of 450 L is evacuated from a pressure of 10^2 kPa to 1 kPa within 60 seconds:

$$S = 2.3 \times \frac{0.45}{1} \times \log \frac{10^2}{1}$$

$$= 2.1 m^3/min$$

∴ **Model FT3-200L can be selected for this application.**

Conversion Rate Table

Conversion table for pressure units that present a problem due to the switch to SI units

pressure	Pa	kPa	MPa	bar	kgf/cm²	atm	mmH_2O (mmAq)	mmHg or Torr
	1	1×10^{-3}	1×10^{-6}	1×10^{-5}	$1.019\,72\times10^{-5}$	$9.869\,23\times10^{-6}$	$1.019\,72\times10^{-1}$	$7.500\,62\times10^{-3}$
	1×10^{3}	1	1×10^{-3}	1×10^{-2}	$1.019\,72\times10^{-2}$	$9.869\,23\times10^{-3}$	$1.019\,72\times10^{2}$	$7.500\,62$
	1×10^{6}	1×10^{3}	1	1×10	$1.019\,72\times10$	$9.869\,23$	$1.019\,72\times10^{5}$	$7.500\,62\times10^{3}$
	1×10^{5}	1×10^{2}	1×10^{-1}	1	$1.019\,72$	$9.869\,23\times10^{-1}$	$1.019\,72\times10^{4}$	$7.500\,62\times10^{2}$
	$9.806\,65\times10^{4}$	$9.806\,65\times10$	$9.806\,65\times10^{-2}$	$9.806\,65\times10^{-1}$	1	$9.678\,41\times10^{-1}$	1×10^{4}	$7.355\,59\times10^{2}$
	$1.013\,25\times10^{5}$	$1.013\,25\times10^{2}$	$1.013\,25\times10^{-1}$	$1.013\,25$	$1.033\,23$	1	$1.033\,23\times10^{4}$	$7.600\,00\times10^{2}$
	$9.806\,65$	$9.806\,65\times10^{-3}$	$9.806\,65\times10^{-6}$	$9.806\,65\times10^{-5}$	1×10^{-4}	$9.678\,41\times10^{-5}$	1	$7.355\,59\times10^{-2}$
	$1.333\,22\times10^{2}$	$1.333\,22\times10^{-1}$	$1.333\,22\times10^{-4}$	$1.333\,22\times10^{-3}$	$1.359\,51\times10^{-3}$	$1.315\,79\times10^{-3}$	$1.359\,51\times10$	1

⚠ Caution

- Please read the Instruction Manual carefully before using, and be sure to use your equipment properly. If you need a copy of the Instruction Manual, please contact our information office. We will send you one immediately.
- Please select a product that is well suited to your specific application and the environment of use. Use of a unit for the wrong application or in an inappropriate environment could result in an accident.
- We assume no liability to indemnify for secondary damage caused by accidents involving our products.

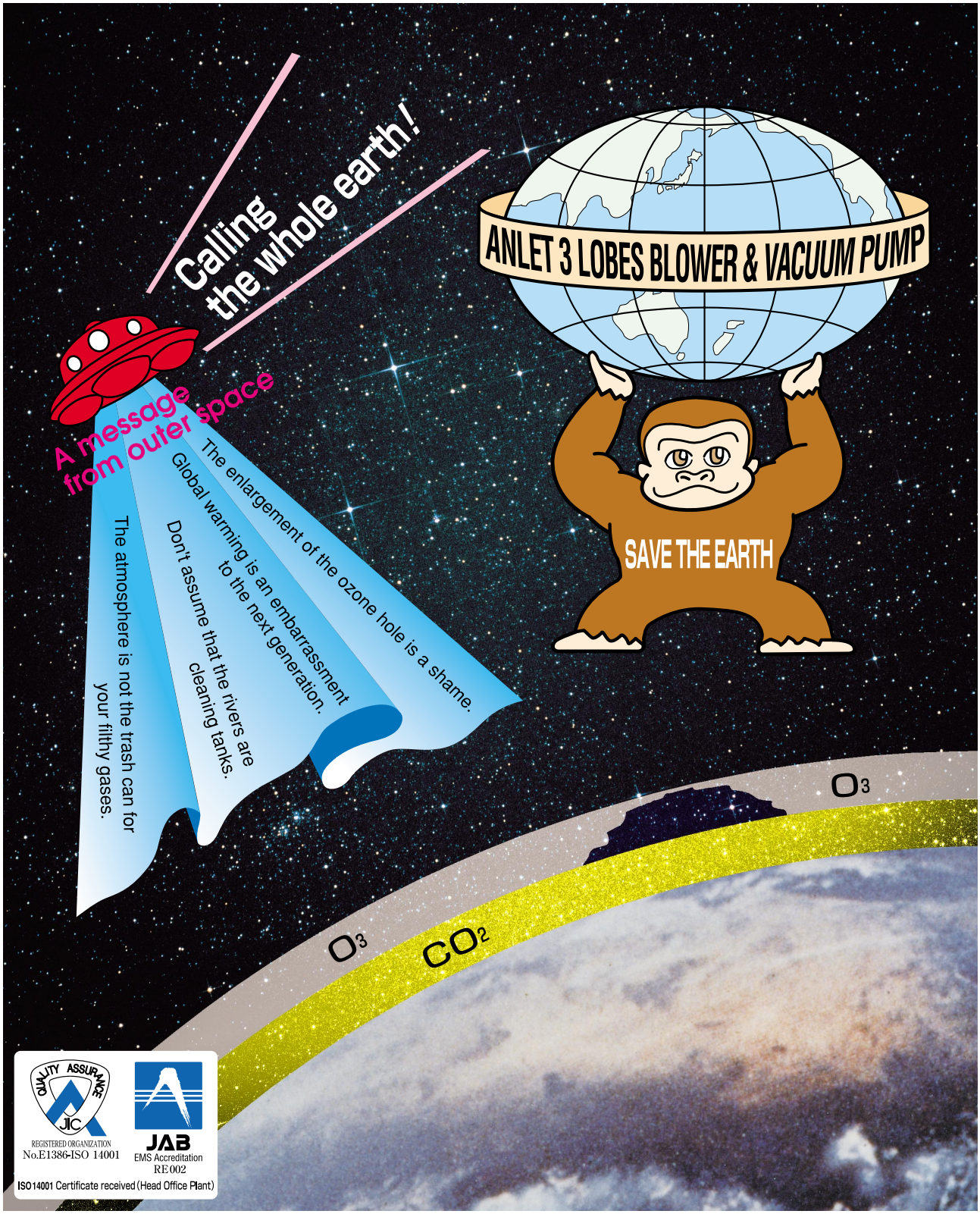
Points to Keep in Mind When Making a Selection

Please Fill in below From.		
1	Model	
2	Application	
3	Pressure	
4	Capacity	
5	Motor	
6	For Air or Gas ?	
7	Serial Number	
8	Campany Name	
MEMO		
9	Accessorise	
REQUEST		

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^3/min, m^3/hr, l/min, etc.....)
- Installation (indoor or outdoor)
- Motor
  - Type
  - Output
  - Voltage
  - Hz
  - Pole
- Others
  - Temperature
  - Cooling water
  - Operation time
  - Accessories
  - Spare parts
  - Color



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

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