

Turbo fans

CTFII/CTF3

TERAL



60Hz



TERAL INC.

Applications

Boiler draft of thermal power plants and factories, etc.; gas transportation of ironworks and chemical plants, etc.; kiln draft of cement plants; dust collection of machine tools and weaving machines; cooling systems; industrial air curtains; pneumatic conveying systems; food industry; pulp industry

Features

- ① Energy-saving fan equipped with top-runner (equivalent to IE3) motor
- ② Fan efficiency reaches 80% by the blade design based on flow analysis. Some CTF3 models reach 90% in maximum efficiency
- ③ Three-dimensional blades create an ideal airflow and minimize noise generation.
- ④ Due to limit-load characteristics, there is never a concern that horsepower will be exceeded.



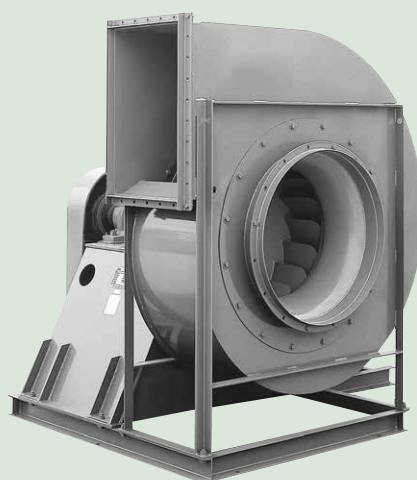
Model type description

CTFII - No.5 - TV - R - OB - B - e

① ② ③ ④ ⑤ ⑥ ⑦

- | | |
|-----------------------------|---|
| ① Model | Turbo fan |
| ② Fan size | No. 5 |
| ③ Discharge direction | Top vertical |
| ④ Rotation direction | Clockwise |
| ⑤ Power transmission method | Single inlet, overhang mounted impeller, belt driven type |
| ⑥ Installation method | Floor type |
| ⑦ Motor efficiency | e: top-runner efficiency (equivalent to IE3) |

CTFII-OB



* Keep in mind that the above show typical examples, part of which may differ from actual devices.

Standard / Special specifications / Standard accessories / Special accessories

● Standard specification, ◎ Special specification, — Not Supported

Model			CTF2-OB	CTF3-OB	CTF2-UOB ^{*1}	CTF2-HOH	CTF2-VOH	CTF2-MOB	CTF3-MOB
Fan size			No.2 - 6	No.6½ - 8	No.2 - 6	No.2 - 6	No.2 - 6	No.2 - 6	No.6½ - 12
Installation method	Motor direct driven type with coupling (including direct driven type without coupling)		—	—	—	●	●	●	●
	Belt driven type	Single inlet, straddle mounted impeller type	—	—	—	—	—	—	—
		Single inlet, overhang mounted impeller type	●	●	●	—	—	●	●
		Double inlet, straddle mounted impeller type	—	—	—	—	—	—	—
Gas temperature	Clean air	0 - 40°C	●	●	●	●	●	●	●
		41 - 90°C	●	●	●	—	—	●	●
		91 - 200°C	◎ ^{*2}	◎ ^{*2}	◎ ^{*2}	—	—	◎ ^{*2}	◎ ^{*2}
		201 - 250°C	◎ ^{*3}	◎ ^{*3}	◎ ^{*3}	—	—	◎ ^{*3}	◎ ^{*3}
		251 - 350°C	◎ ^{*4}	◎ ^{*4}	—	—	—	◎ ^{*4}	◎ ^{*4}
		300 - 400°C	◎ ^{*5}	◎ ^{*5}	—	—	—	◎ ^{*5}	◎ ^{*5}
Structure	Impeller	Three-dimensional backward curved blade (turbo)	●	—	●	●	●	●	—
		Backward curved blade (turbo)	—	●	—	—	—	—	●
	Bearing	Sealed type bearing	—	—	—	●	●	—	—
		Open type bearing	●	●	●	—	—	●	●
		Radial ball bearing or radial roller bearing	●	●	●	—	—	●	●
	Inlet	Copper plate winding	◎	◎	◎	◎	◎	◎	◎
	Shaft seal	Sheet packing type	●	●	●	—	—	●	●
		Bypass type	◎	◎	◎	—	—	◎	◎
		Labyrinth type (sheet packing)	◎	◎	◎	—	—	◎	◎
	Companion flange	Discharge side ^{*6}	●	●	●	●	●	●	●
		Suction side ^{*6}	●	●	●	●	●	●	●

*1 Supported as a power transmission method of special specification for No.6 or lower; single inlet, overhang mounted impeller, belt driven type with the motor installed on top of the bearing stand. Since there are restrictions on installation depending on motor output, contact us separately for details.

*2 "Heat-resistant silver painting, with radiation plate" adopted as heat-resistance measure. Complies with an ambient temperature of 0 to 40°C.

*3 "Heat-resistant silver painting, with radiation blade" adopted as heat-resistance measure. Complies with an ambient temperature of 0 to 40°C.

*4 "Heat-resistant silver painting, internal clearance C3 bearing (opposite pulley side), with radiation blade, with cooling blades" adopted as heat-resistance measure. Complies with an ambient temperature of 0 to 40°C.

*5 "Heat-resistant silver painting, internal clearance C3 bearing (opposite pulley side), with radiator plate, water-cooling type" adopted as heat-resistance measure. Complies with an ambient temperature of 0 to 40°C.

*6 No rivet holes to fix ducts. A companion flange is temporarily fixed to the fan body for shipment. (A complete set of fixing bolts may not be included.) If there is a need for a companion flange with a complete set of fixing bolts, a separate order is required.

● Standard specification, ◎ Special specification, — Not Supported

Model				CTF2-OB	CTF3-OB	CTF2-U0B ^{*1}	CTF2-HOH	CTF2-VOH	CTF2-MOB	CTF3-MOB	
Fan size				No.2 - 6	No.6½ - 8	No.2 - 6	No.2 - 6	No.2 - 6	No.2 - 6	No.6½ - 12	
Structure	Casing	Drain	Socket attachment	●	●	●	●	—	●	●	
			Socket attachment: with cock / valve	○	○	○	○	—	○	○	
		Inspection opening	Tightening by bolt / nut	●	●	●	●	●	●	●	
			One-touch type	○	○	○	○	○	○	○	
		Change in plate thickness	1 rank UP_ABC plate	○	○	○	○	○	○	○	
			1 rank UP_C plate only	○	○	○	○	○	○	○	
		Special discharge direction	Bottom vertical (BV), top upper diagonal 45° (TUS), Bottom upper diagonal 45° (BUS)	○	○	○	○	—	○	○	
		Lagging	Mounting by nut	○	○	—	○	—	○	○	
			Main part t=75mm	○	○	—	○	—	○	○	
	Split type			○*7	○*7	—	—	—	○*7	○*7	
	Bearing guard			Standard	●	●	○	—	—	●	●
				Sealed type (with inspection opening)	○	○	○	—	—	○	○
				With acrylic inspection opening	○	○	○	—	—	○	○
				With one-touch inspection opening	○	○	—	—	—	○	○
				Belt guard			Sealed type (with back cover)	○	●	○	—
	With rotation speed measuring hole	○	○	○			—	—	—	—	
	With inspection opening	○	○	○			—	—	—	—	
	With acrylic inspection opening	○	○	○			—	—	—	—	
	With one-touch inspection opening	○	○	○			—	—	—	—	
	Expanded metal front			○	○	○	—	—	—	—	
	Child finger proof specification			○	○	○	—	—	—	—	
	Lubrication piping	P side, Opposite P side		○	○	○	—	—	○	○	
	Common base	With base seat for post-installed anchor		○	○	○	○	—	○	○	
	Motor opposite side			○	○	—	—	—	—	—	
	Material	Casing / impeller: SS400, SPHC, main shaft S45C			●	●	●	●	●	●	●
Casing / impeller / main shaft: SUS304 ^{*8}			○	○	○	○*9	○*9	○	○		
Casing / impeller / main shaft: SUS316, etc. ^{*8}			○*10	○*10	○*10	○*10	○*10	○*10	○*10		
Other than gas contact parts: SUS304 ^{*11}			○	○	○	○	—	○	○		
Casing / impeller, steel sheet portion: S-TEN (sulfuric acid resistant steel)			○	○	○	○	○	○	○		
Installation location	Indoor (ambient temperature 0 to 40°C, relative humidity 85% or less)			●	●	●	●	●	●	●	
	Outdoors			○	○	○	○	○	○	○	
Installation method	Floor type (B)			●	●	●	●	—	●	●	
	Floor type vibration- proof (D) ^{*12}			○	○	○	○	—	○	○	
	Floor type vibration- proof (with earthquake-resistant stopper bolt (ND)) ^{*12}										
	Ceiling-mounted type (G) ^{*13}			○*14	—	○*14	○*14	—	○*14	—	
	Ceiling-mounted vibration-proof type (I) ^{*12}										
	Ceiling mounted vibration-proof type (with earthquake-resistant stopper bolt (KI)) ^{*12}										
	Hanging frame type vibration-proof (with earthquake-resistant stopper bolt (NI)) ^{*12}			○*14	—	○*14	○*14	—	○*14	—	
Equipment mounting			—	—	—	—	●	—	—		
Motor	Totally enclosed fan-cooled type 3φ200V/220V			●	●	●	●	●	●	●	
	Different voltage			○	○	○	○	○	○	○	
Coating ^{*15}	Top coating of internal and external surfaces — polyester resin based powder coating 7.5BG5/1.5			●	●	●	●	●	●	●	
	Heat-resistant silver coating			○	○	○	—	—	○	○	
	Epoxy resin coating ^{*16}			○	○	○	○	○	○	○	
	PVC coating			○	○	○	○	○	○	○	
	Salt resistant coating			○	○	○	○	○	○	○	
	Specified color coating			○	○	○	○	○	○	○	
	Common base (B / D base) hot-dip galvanization			○	○	○	○*17	—	○	○	

*1 Supported as a power transmission method of special specification for No.6 or lower; single inlet, overhang mounted impeller, belt driven type with the motor installed on top of the bearing stand. Since there are restrictions on installation depending on motor output, contact us separately for details.

*7 Only compatible with No.4 1/2 or higher. (Horizontal split type is standard for No.9 or higher.)

*8 Stainless steel parts are uncoated in principle.

*9 The main shaft is excluded. Applicable only to HOH-S and not applicable to HOH-F.

*10 It is also possible to change the materials of the specified parts only. (For example, only the impeller is made of SUS316 and the casing and main shaft are made of SUS304.)(As for HOH and VOH, the main shaft is excluded.)

*11 Applicable to base, bearing stand, belt guard, bearing guard and coupling guard (varies depending on model).

*12 The vibration isolation rubber is used as standard. It can be changed to combination spring vibration isolation rubber or spring vibration isolator.

*13 The hanger type rubber vibration isolator and hanger type spring vibration isolator are available.

*14 Only compatible with No.4 or lower.

*15 Motor manufacturer coating is applied to motors.

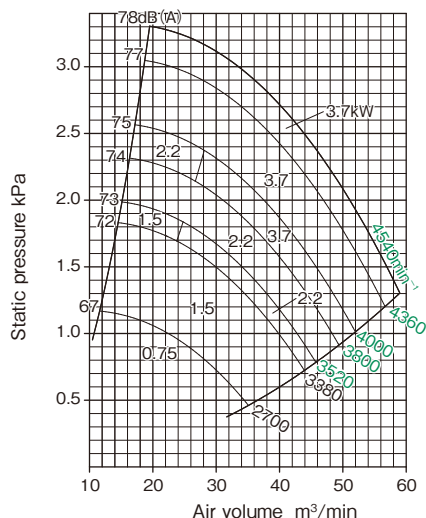
*16 Epoxy resin coating cannot be used for outdoor use. When equivalent corrosion resistance is required for outdoor use, salt damage prevention coating can be used.

*17 The common bases are A and D.

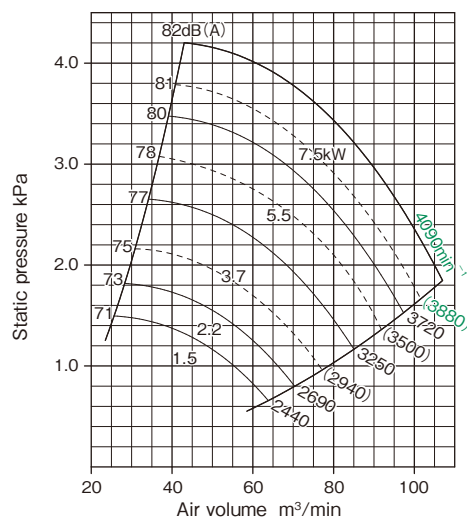
Selection chart

* In performance drawings, rotation speeds in green correspond to 2P for the number of poles.

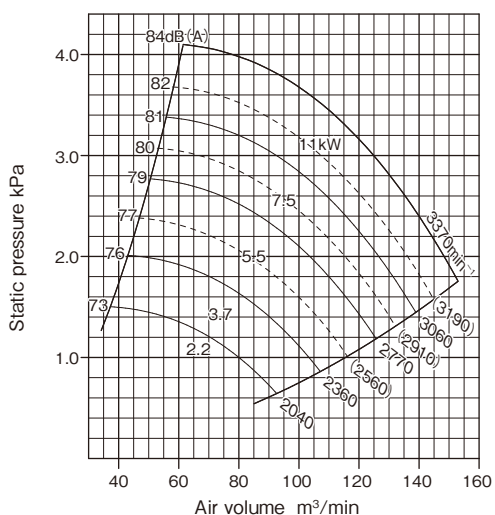
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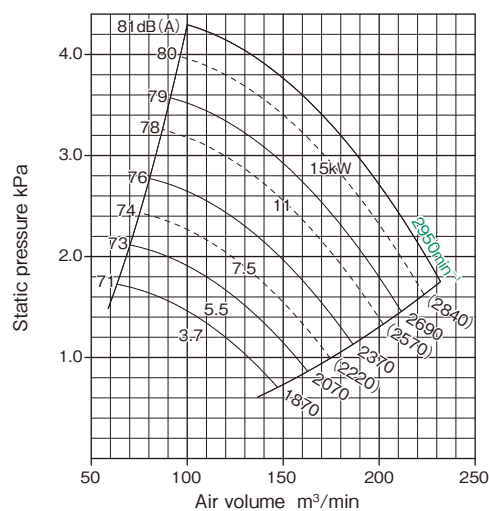
CTFII-No.2½



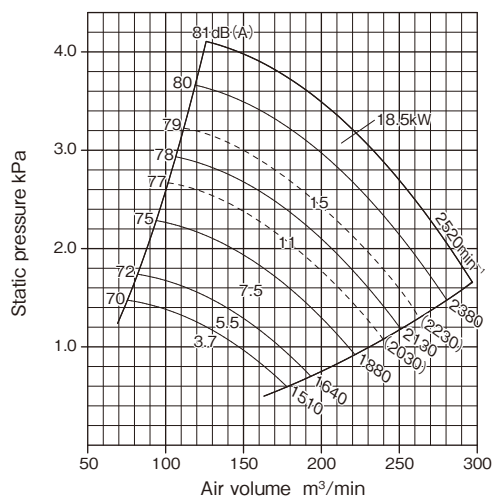
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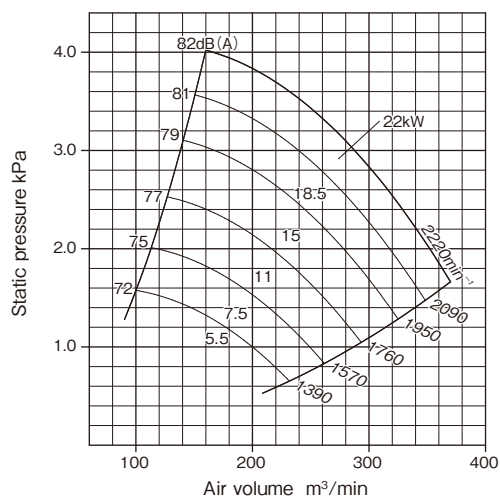
CTFII-No.3½



CTFII-No.4

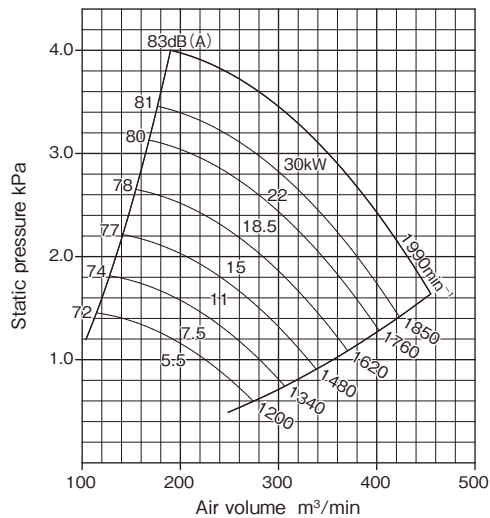


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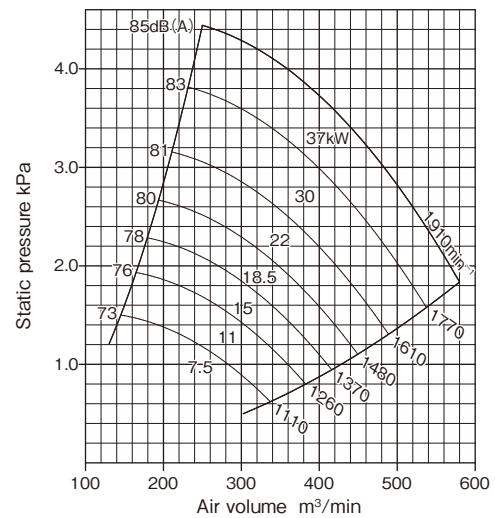


Selection chart

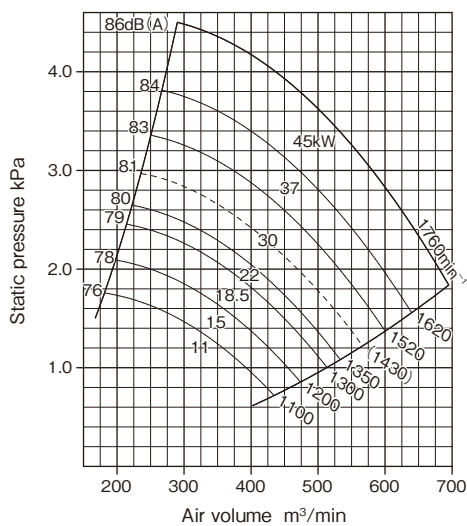
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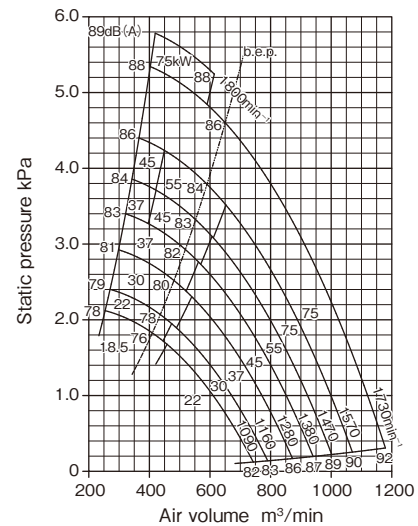
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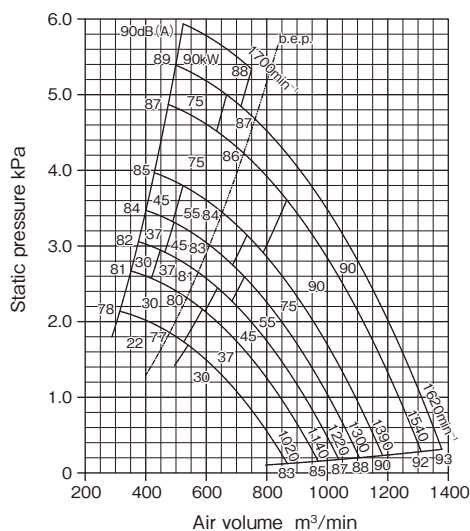
CTFII-No.6



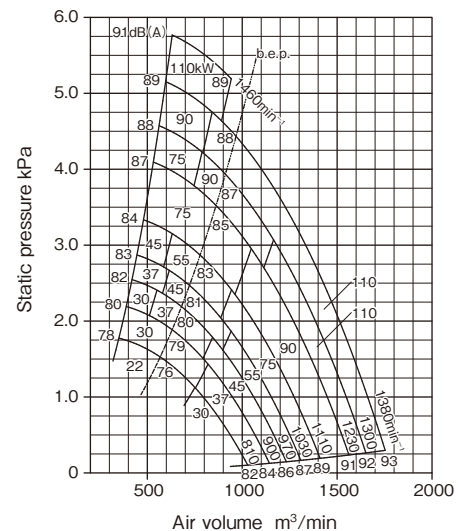
CTF3-No.6½



CTF3-No.7



CTF3-No.8



■ Assembly drawing (No.2 - 6)

Fig. 1

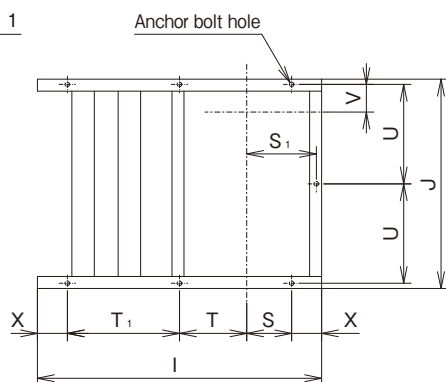
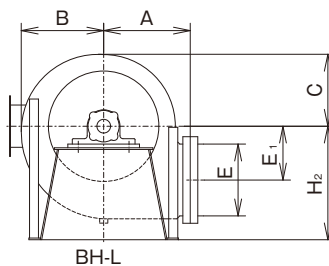
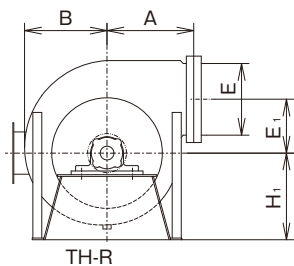
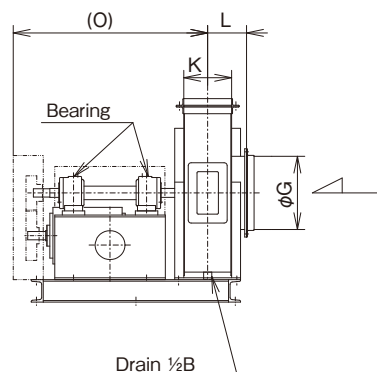
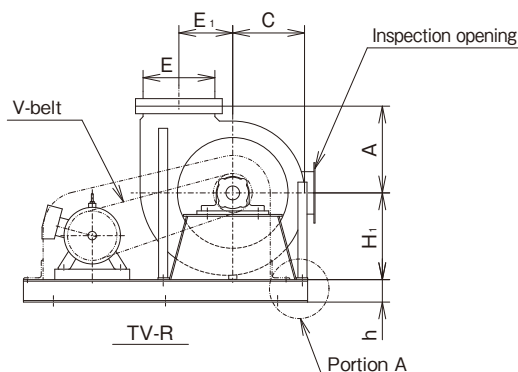
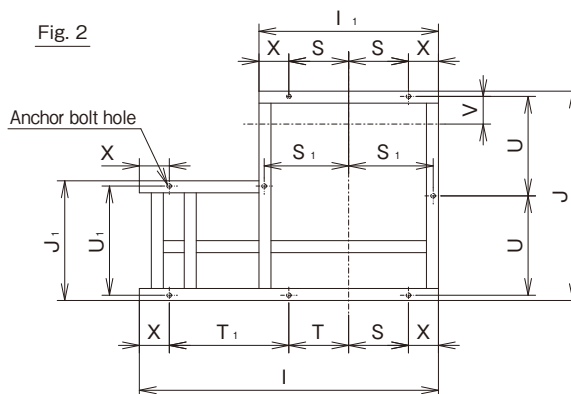
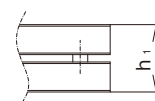


Fig. 2



Dimension of portion A of floor type vibration-proof



■ Dimensions

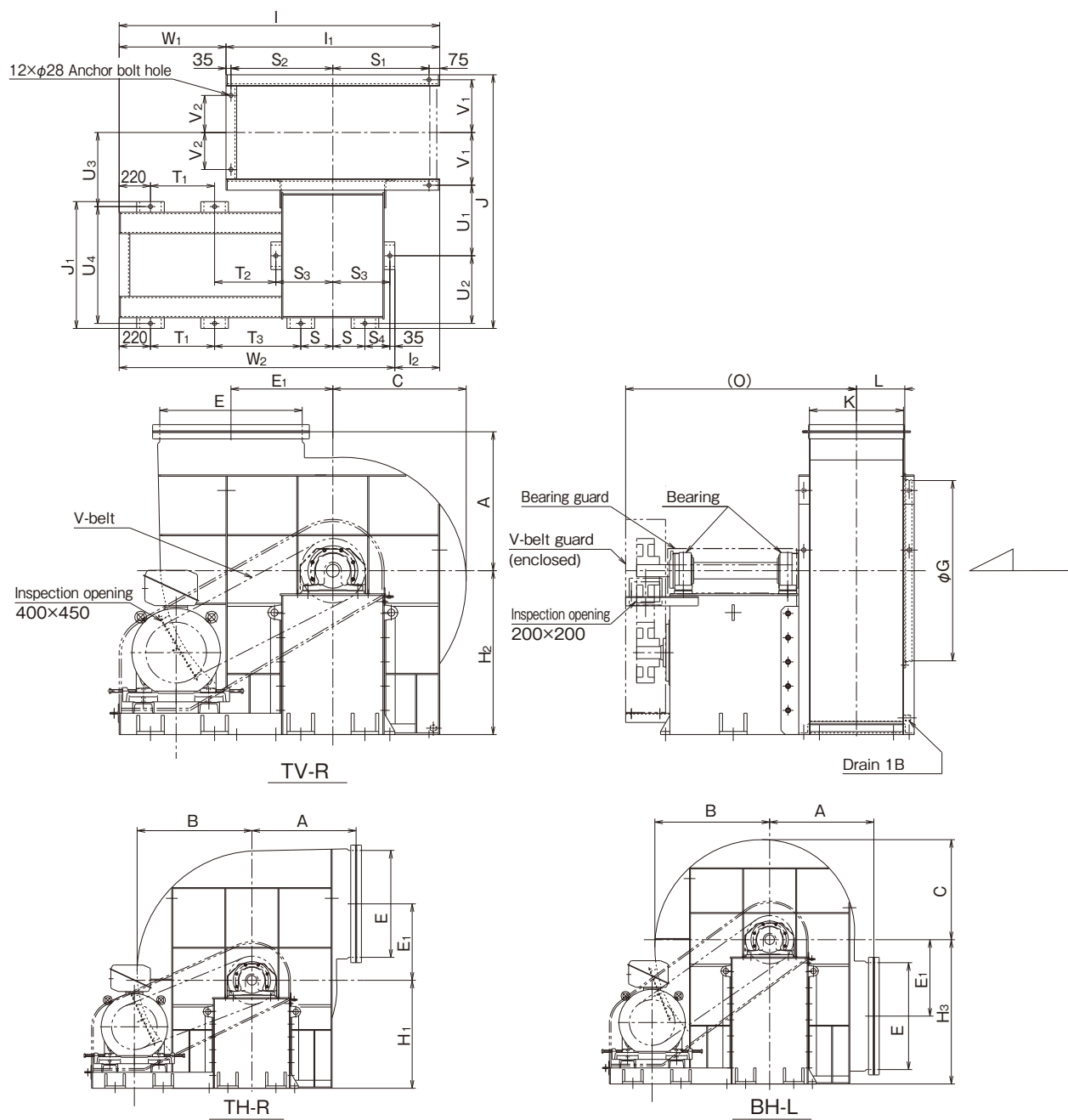
(Unit :mm)

No.	Main Unit								Suction	Discharge		Inspection opening	Bearing	Max. Rotational Speed (min ⁻¹)	Max. Motor output (kW)
	A	B	C	E ₁	H ₁	H ₂	L	O	G	E	K				
2	290	280	245	180	290	380	130	650	245	240	160	150× 80	6307	4540	3.7
2½	330	345	300	225	365	460	150	740	310	300	200	150× 80	6308	4100	7.5
3	390	410	360	270	440	550	180	820	380	360	240	150× 80	6309	3400	11
3½	440	475	415	315	510	645	200	895	450	420	280	150× 80	6310	2950	15
4	510	545	475	360	580	730	220	985	520	480	320	200×250	6311	2540	18.5
4½	550	610	530	405	650	820	240	1065	550	540	360	200×250	6312	2230	22
5	590	675	590	450	720	900	260	1125	600	600	400	200×250	6313	2000	30
5½	650	745	645	495	790	980	280	1195	670	660	440	200×250	6314	1910	37
6	700	810	705	540	860	1060	320	1305	750	720	480	200×250	6316	1760	45

No.	Base															Anchor bolt hole	Approx. mass (kg) (excluding motor)	
	Fig.	I	I ₁	J	J ₁	S	S ₁	T	T ₁	U	U ₁	V	X	h	h ₁		B type	D type
2	1	950	—	700	—	150	232.5	—	—	332.5	—	92.5	100	75	170	5×φ15	125	145
2½		1100	—	800	—	192.5	275	—	—	382.5	—	112.5	100	75	170	5×φ15	165	190
3		1250	—	900	—	190	322.5	—	—	432.5	—	142.5	150	75	175	5×φ15	240	270
3½		1350	—	1000	—	240	370	285	525	480	—	160	150	100	225	7×φ19	330	375
4		1500	—	1100	—	275	430	300	575	530	—	190	175	100	225	7×φ19	435	480
4½	2	1600	990	1200	750	320	475	305	625	580	710	210	175	100	225	8×φ19	515	575
5		1750	1070	1280	750	360	515	340	700	620	710	230	175	100	225	8×φ19	615	680
5½		1900	1180	1370	800	390	570	360	750	665	760	250	200	100	235	8×φ19	860	930
6		2000	1280	1500	800	440	620	360	800	730	760	270	200	100	235	8×φ19	1010	1085

- For companion flange dimensions, see the companion flange dimensional drawings.
- The discharge direction TV-L, TH-L and BH-R types are also manufactured as a standard.

■ Assembly drawing (No.6½ - 8)



■ Dimensions

(Unit :mm)

No.	Main Unit									Suction	Discharge		Bearing		Max. Rotational Speed (min ⁻¹)	Max. Motor output (kW)
	A	B	C	E ₁	H ₁	H ₂	H ₃	L	O	G	E	K	Pulley side	Opposite pulley side		
6½	795	880	765	582.5	840	950	1090	277	1380	1030	815	535	6320	6224	1800	18.5 - 75*
7	860	950	825	630	900	1010	1170	300	1400	1105	880	580	6320	6224	1700	22 - 90*
8	975	1075	935	715	1010	1150	1350	340	1620	1265	1000	660	6320	6224	1460	22 - 110*

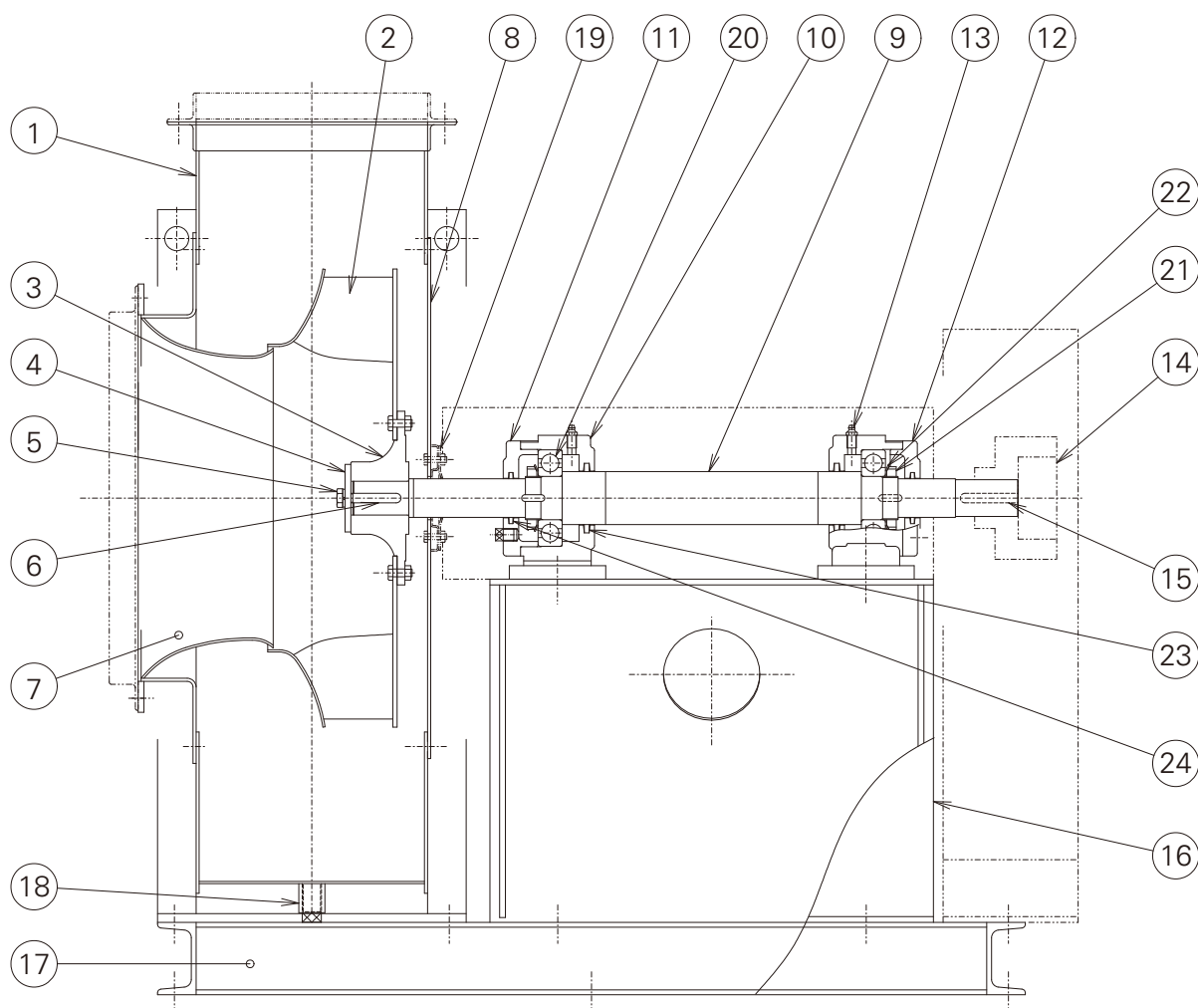
No.	Base																				Approx. mass(kg) (excluding motor and pulley)	
	I	I ₁	I ₂	J	J ₁	S	S ₁	S ₂	S ₃	S ₄	T ₁	T ₂	T ₃	U ₁	U ₂	U ₃	U ₄	V ₁	V ₂	W ₁		W ₂
6½	1925	1250	260	1555	840	155	550	590	330	175	375	375	550	445	425	407.5	770	307.5	197.5	675	1665	1350
7	1975	1350	310	1600	840	155	600	640	330	175	375	375	550	445	425	430	770	330	220	625	1665	1480
8	2250	1500	315	1780	890	225	675	715	400	175	450	430	605	495	475	520	820	370	260	750	1935	1840

· For companion flange dimensions, see the companion flange dimensional drawings.

· The discharge direction TV-L, TH-L and BH-R types are also manufactured as a standard.

*As the external dimensions may vary in the case of 75kW or more, contact us separately.

Internal structure drawing (No.2 - 6)

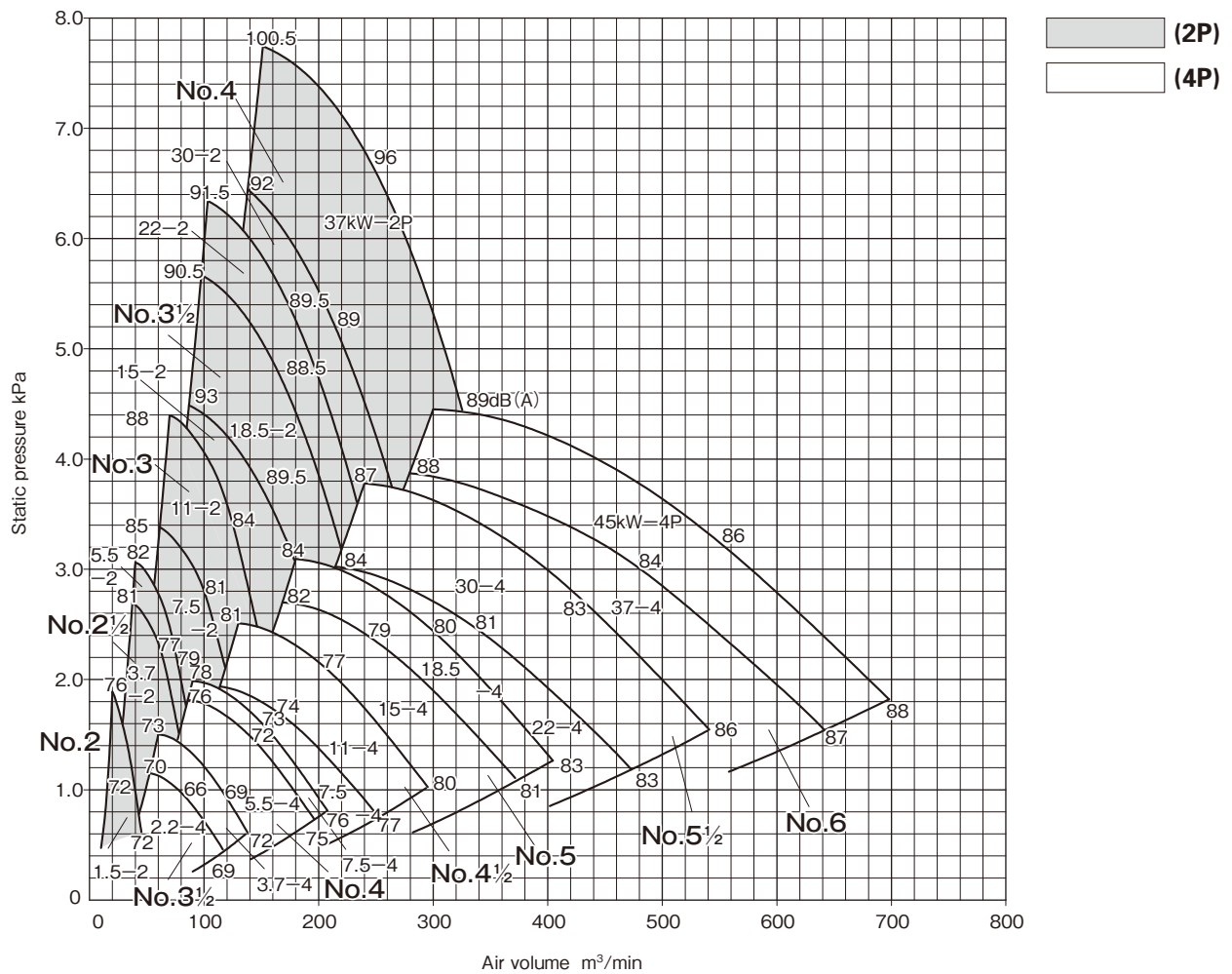


No.	Part name	Qty	Material
1	Casing	1	SPHC-SS400
2	Impeller	1	SS400
3	Impeller hub	1	FCD400
4	Impeller retaining washer	1	SS400
5	Impeller retaining bolt	1	SWCH
6	Impeller key	1	S45C
7	Inlet	1	SPHE-SS400
8	Casing cover	1	SPHC
9	Shaft	1	S45C
10	Bearing case	2	FC200

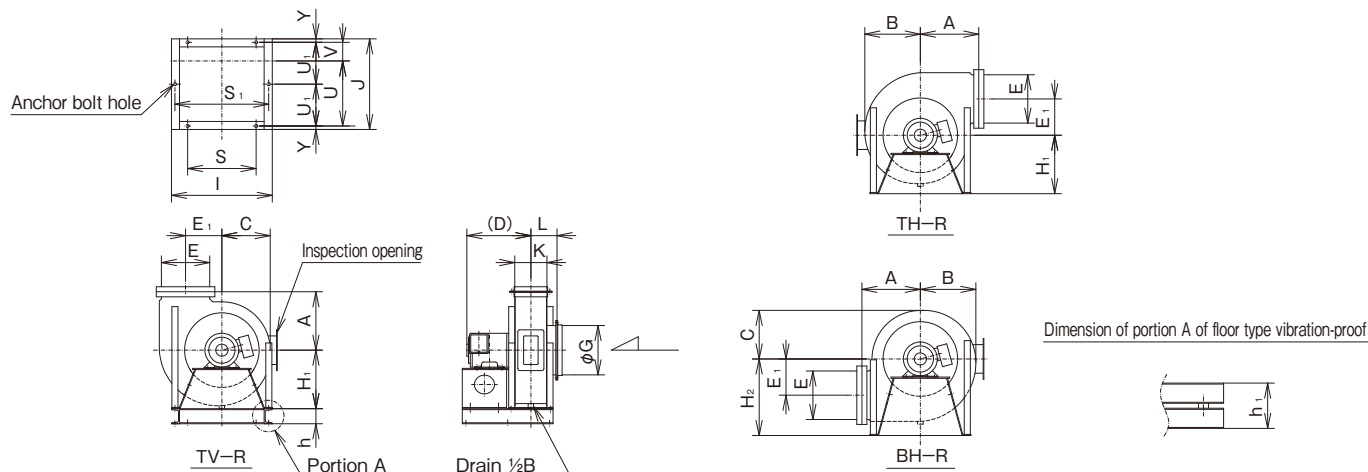
No.	Part name	Qty	Material
11	Bearing cap A	1	FC200
12	Bearing cap C	1	FC200
13	Grease nipple	2	C3604B
14	V-pulley	1	FC200
15	V-pulley key	1	S45C
16	Bearing stand	1	SS400-SPHC
17	Common base	1	SS400
18	Drain	1	SS400
19	Shaft seal	1	

No.	Part name	Qty	Material	No.2	No.2½	No.3	No.3½	No.4	No.4½	No.5	No.5½	No.6
20	Ball bearing	2	SUJ	6307	6308	6309	6310	6311	6312	6313	6314	6316
21	Bearing nut	2	SS400	AN07	AN08	AN09	AN10	AN11	AN12	AN13	AN14	AN16
22	Bearing washer	2	SS400	AW07	AW08	AW09	AW10	AW11	AW12	AW13	AW14	AW16
23	Felt ring	2	FELT	Fi10	Fi11	Fi12	Fi13	Fi15	Fi16	Fi17	Fi18	Fi20
24	Felt ring	2	FELT	Fi 7	Fi 8	Fi 9	Fi10	Fi11	Fi12	Fi13	Fi15	Fi16

Selection chart



Assembly drawing (No.2 - 6)



Dimensions

(Unit :mm)

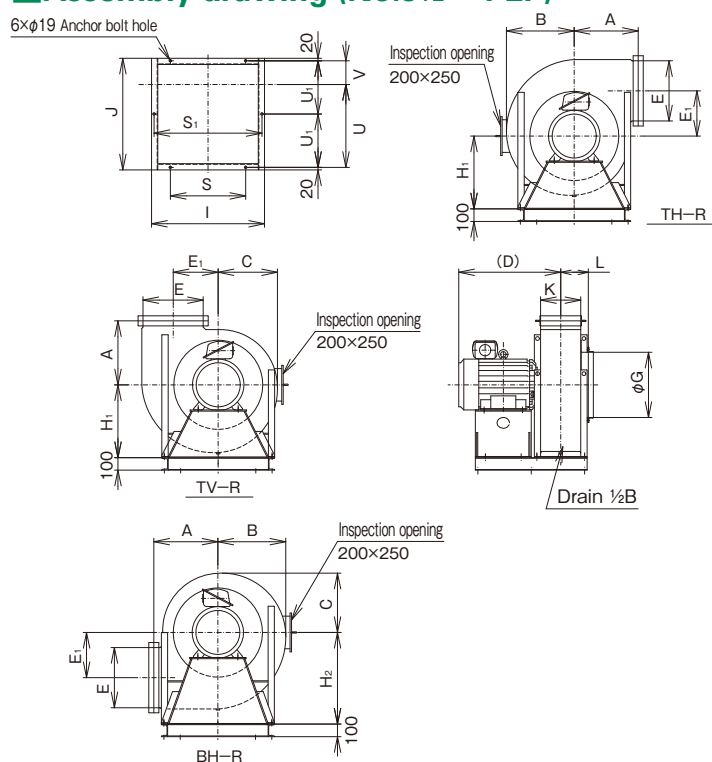
No.	Main Unit										Suction	Discharge	Inspection opening	Motor output (kW) × number of poles (P)	
	A	B	C	D	E ₁	H ₁	H ₂	L	G	E	K			50Hz	60Hz
2	290	280	245	365	180	290	380	130	245	240	160	150× 80	150× 80	1.5×2	1.5×2
2½	330	345	300	475	225	365	460	150	310	300	200	150× 80	150× 80	2.2-3.7×2	3.7-5.5×2
3	390	410	360	625	270	440	550	180	380	360	240	150× 80	150× 80	5.5-7.5×2	7.5-11×2
3½	440	475	415	645	315	510	645	200	450	420	280	150× 80	150× 80	11-15×2	2.2-3.7×4
4	510	545	475	575	360	580	730	220	520	480	320	200×250	200×250	2.2-3.7×4	5.5-7.5×4
4½	550	610	530	665	405	650	820	240	550	540	360	200×250	200×250	5.5-7.5×4	7.5-11×4
5	590	675	590	770	450	720	900	260	600	600	400	200×250	200×250	7.5-11×4	15-18.5×4
5½	650	745	645	830	495	790	980	280	670	660	440	200×250	200×250	15-18.5×4	22-30×4
6	700	810	705	940	540	860	1060	320	750	720	480	200×250	200×250	22-30×4	37-45×4

No.	Base										Anchor bolt hole	Approx. mass (kg) (excluding motor)
	I	J	S	S ₁	U	U ₁	V	Y	h	h ₁		
2	500	450	340	465	322.5	207.5	92.5	17.5	75	170	6×φ15	65
2½	585	550	425	550	402.5	257.5	112.5	17.5	75	170	6×φ15	85
3	680	700	480	645	522.5	332.5	142.5	17.5	75	175	6×φ15	140
3½	780	740	530	740	600	380	160	20	100	225	6×φ19	185
4	900	750	600	860	670	430	190	20	100	225	6×φ19	250
4½	990	840	690	950	590	400	210	20	100	225	6×φ19	305
5	1070	900	720	1030	630	430	230	20	100	225	6×φ19	400
5½	1180	970	830	1140	680	465	250	20	100	235	6×φ19	465
6	1280	1050	880	1240	740	505	270	20	100	235	6×φ19	610

- For companion flange dimensions, see the companion flange dimensional drawings.
- The discharge direction TV-L, TH-L and BH-L types are also manufactured as a standard.
- Values in brackets are for the size depends on the motor.

Assembly drawing (No.3½ • 4-2P)

(Unit :mm)

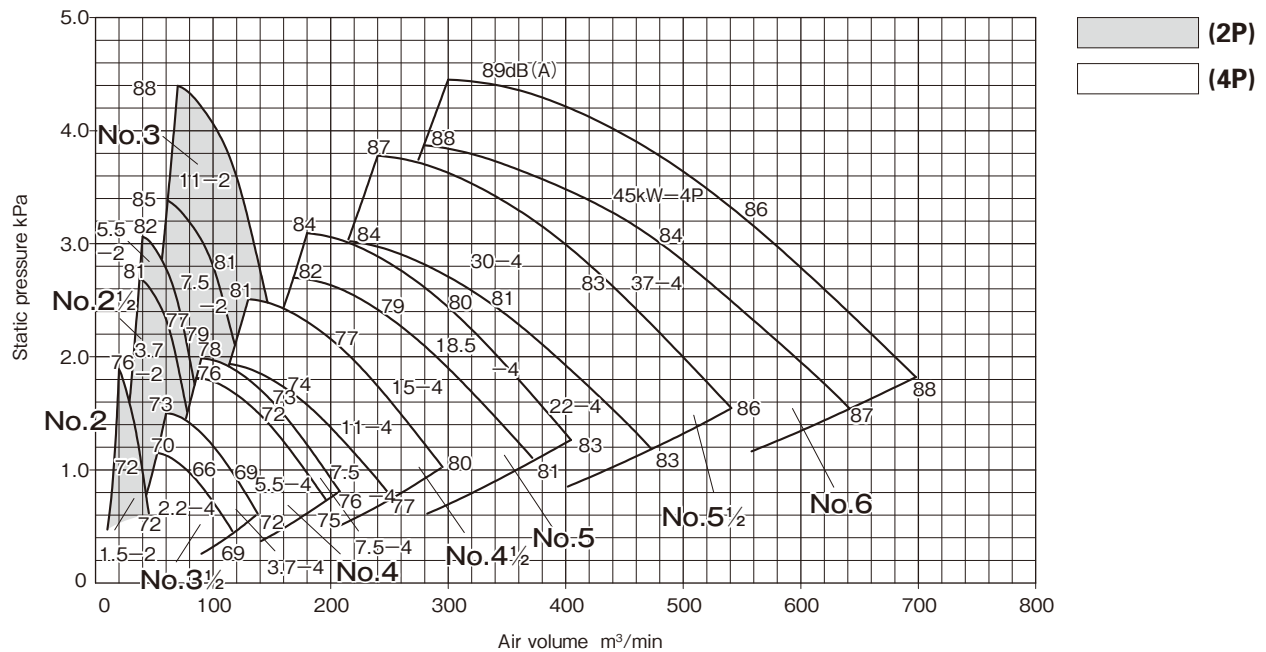


Unit:mm												
No.	Main Unit								Suction companion flange	Discharge companion flange		Motor output (kW) x number of poles (P)
	A	B	C	D	E ₁	H ₁	H ₂	L	G	E	K	
3½	440	475	415	700	315	510	645	200	450	420	280	15~22x2
4	510	540	475	820	360	580	730	220	520	480	320	30x2
												37x2

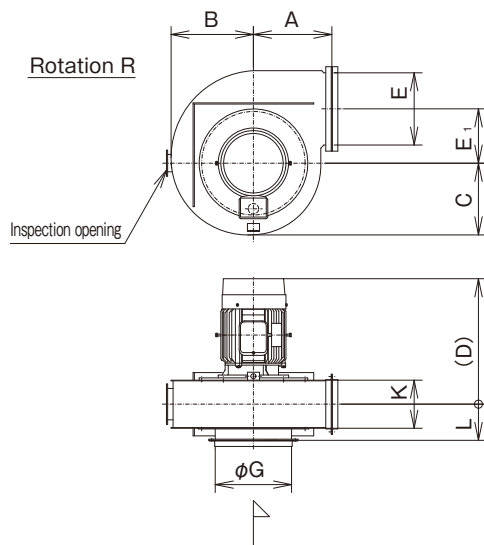
No.	Base							Approx. mass (kg) (excluding motor)
	I	J	S	S ₁	U	U ₁	V	
3½	780	800	430	740	600	380	160	210
								275
4	900	890	600	890	660	425	190	310

- For companion flange dimensions, see the companion flange dimensional drawings.
- The discharge direction TV-L, TH-L and BH-L types are also manufactured as a standard.
- Values in brackets are for the size depends on the motor.

Selection chart



Assembly drawing



Dimensions

(Unit :mm)

No.	Main Unit						Suction	Discharge	
	A	B	C	D	E ₁	L	G	E	K
2	290	280	245	375	180	130	245	240	160
2½	330	345	300	515	225	150	310	300	200
3	390	410	360	635	270	180	380	360	240
3½	440	475	415	655	315	200	450	420	280
4	510	545	475	610	360	220	520	480	320
4½	550	610	530	695	405	240	550	540	360
5	590	675	590	790	450	260	600	600	400
5½	650	745	645	850	495	280	670	660	440
6	700	810	705	955	540	320	750	720	480

No.	Inspection opening	Motor output (kW) × number of poles (P)		Approx. mass (kg) (excluding motor)
		50Hz	60Hz	
2	150× 80	1.5×2	1.5×2	35
2½	150× 80	2.2·3.7×2	3.7·5.5×2	55
3	150× 80	5.5·7.5×2	7.5·11×2	85
3½	150× 80	11·15×2	2.2·3.7×4	115
4	200×250	2.2·3.7×4	5.5·7.5×4	170
4½	200×250	5.5·7.5×4	7.5·11×4	225
5	200×250	7.5·11×4	15·18.5×4	285
5½	200×250	15·18.5×4	22·30×4	340
6	200×250	22·30×4	37·45×4	395

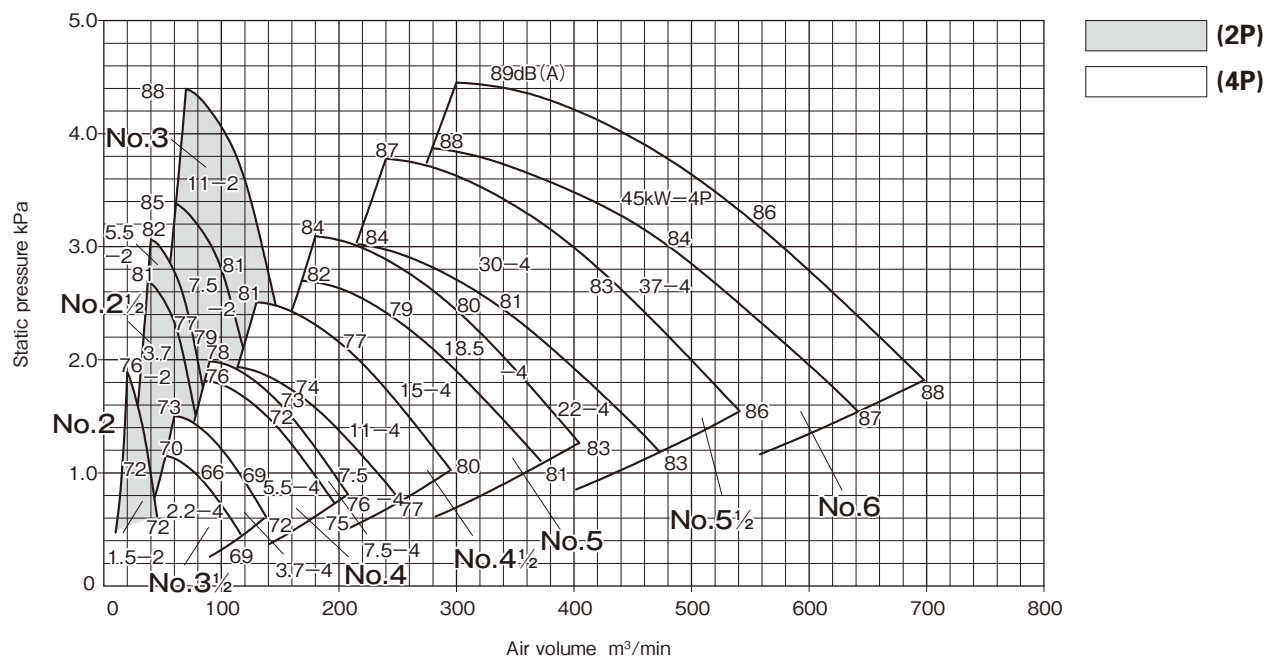
*For companion flange dimensions, see the companion flange dimensional drawings.

*Rotation L types are also manufactured as a standard.

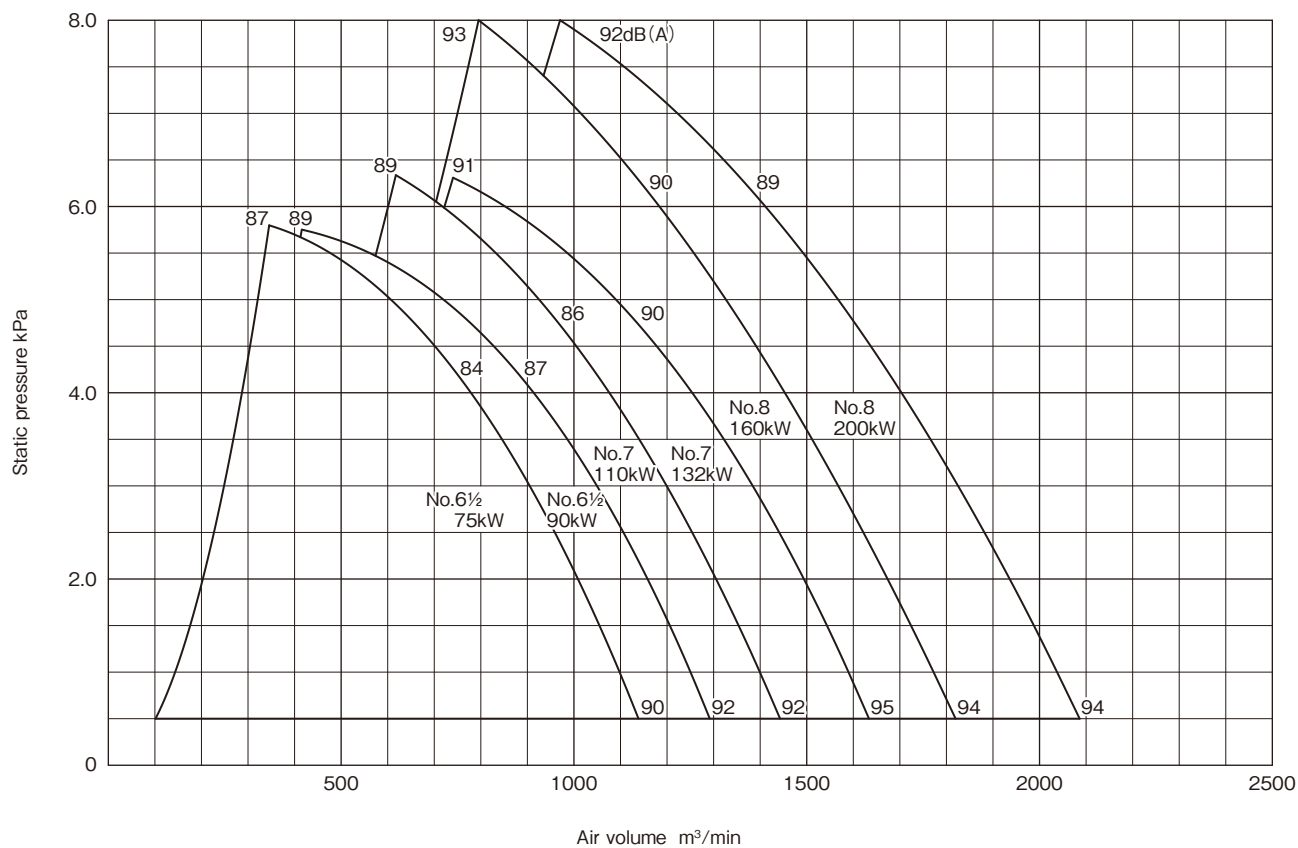
*Values in brackets are for the size depends on the motor.

Selection chart

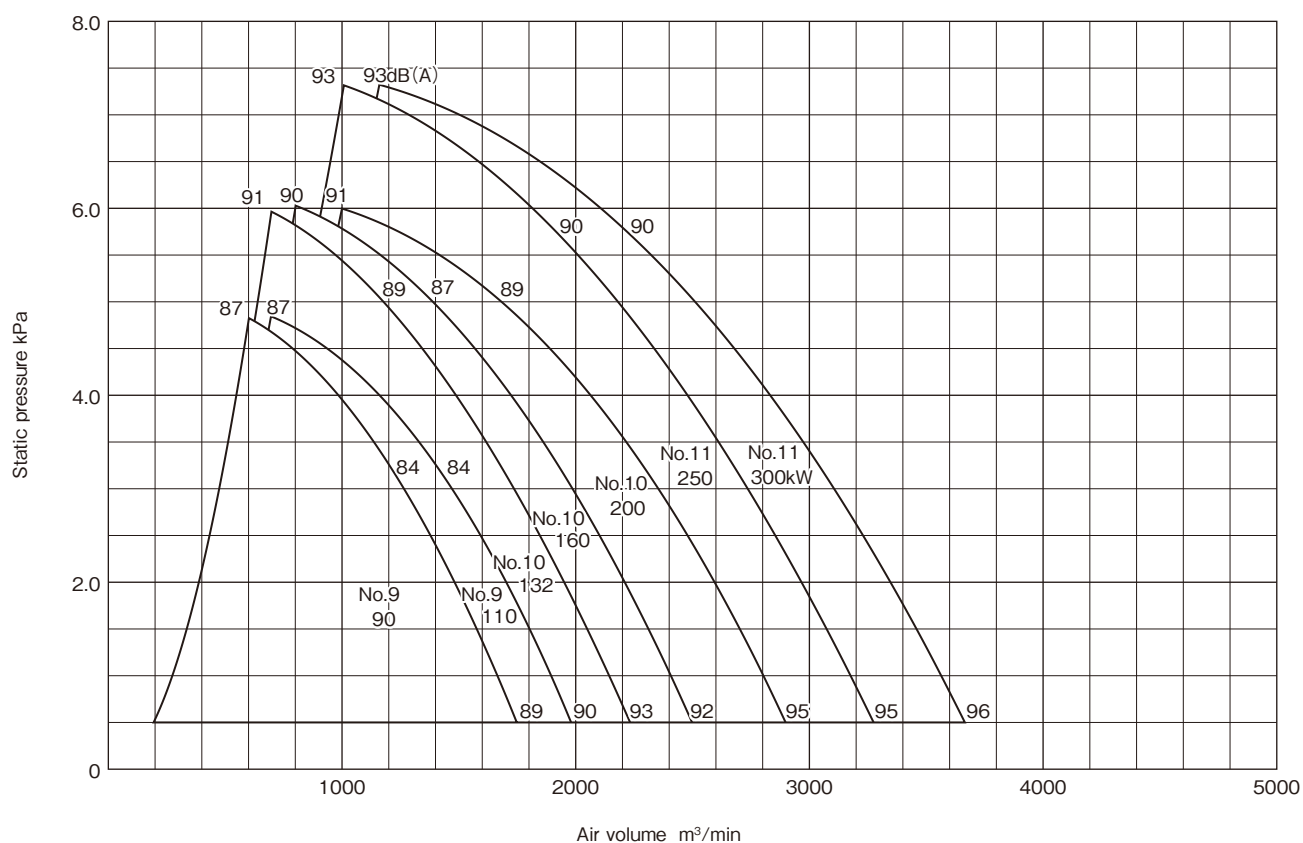
● No.2 - 6 (2P • 4P)



● No.6½ - (4P)



● No.9 - (6P)



■ Assembly drawing (No.2 - 6)

Fig. 1

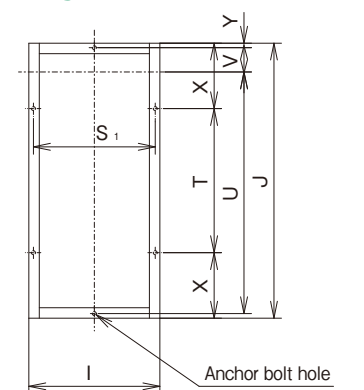
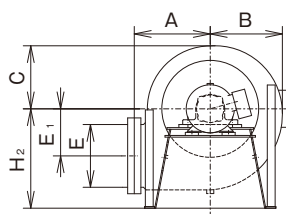
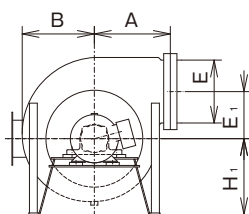
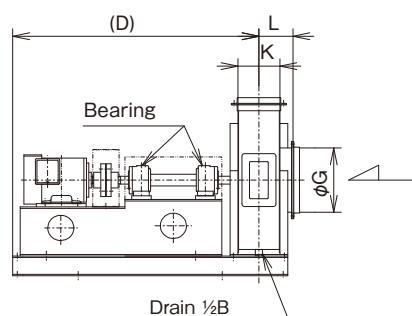
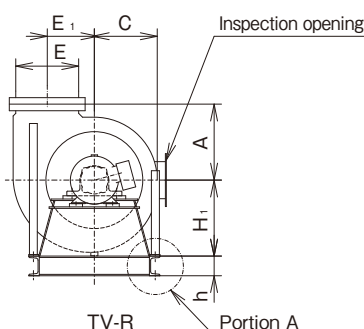
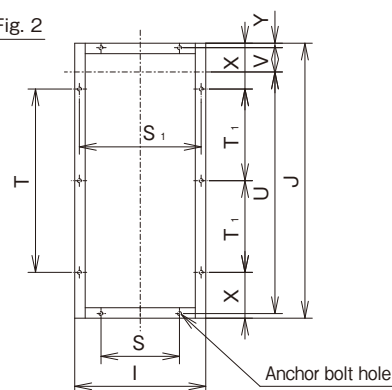
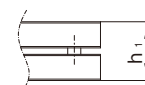


Fig. 2



Dimension of portion A of floor type vibration-proof



TH-R

BH-R

■ Dimensions

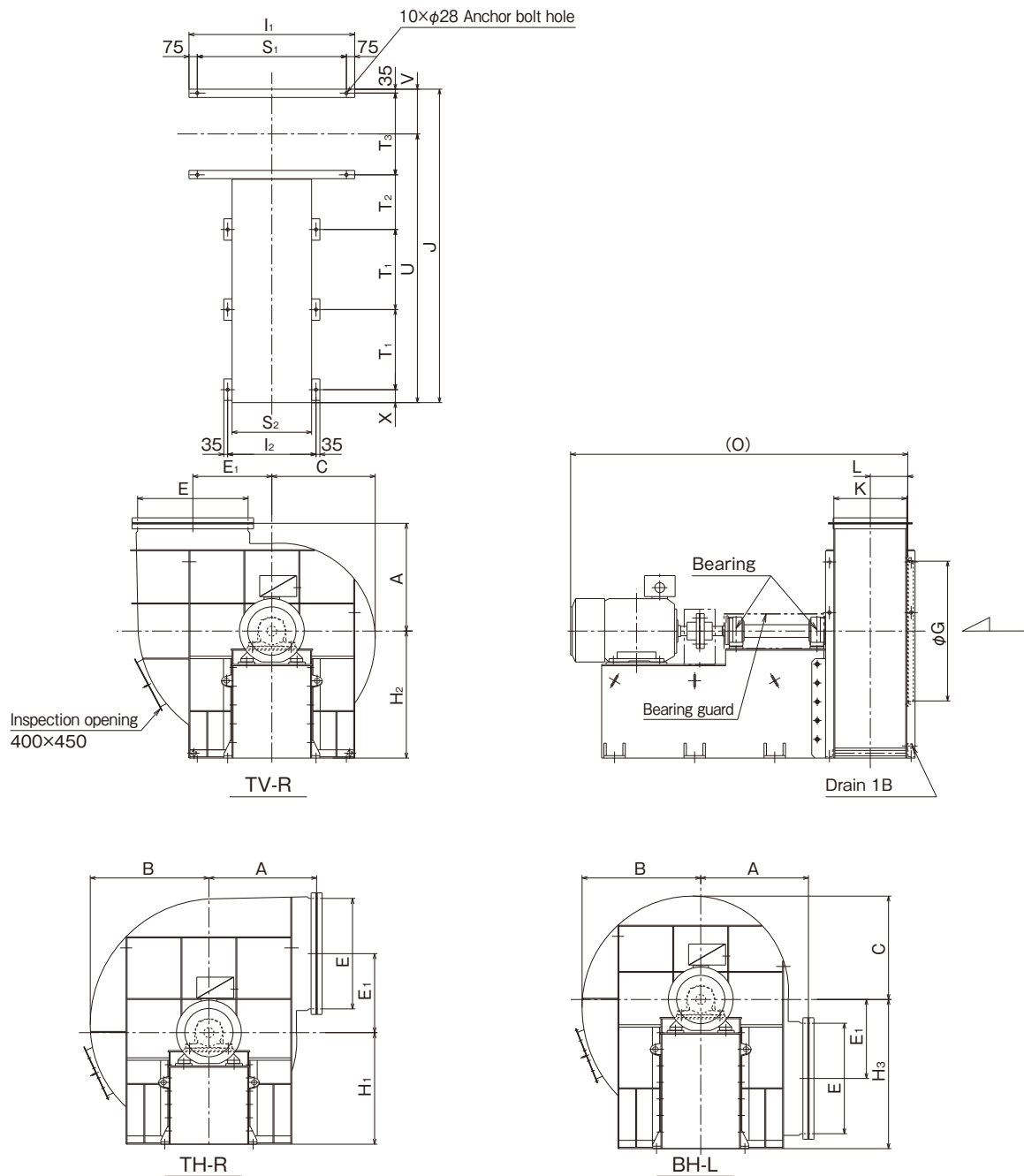
(Unit :mm)

No.	Main Unit								Suction	Discharge		Inspection opening	Motor output (kW) × number of poles (P)	
	A	B	C	D	E ₁	H ₁	H ₂	L	G	E	K		50Hz	60Hz
2	290	280	245	915	180	290	380	130	245	240	160	150× 80	1.5×2	1.5×2
2½	330	345	300	1105	225	365	460	150	310	300	200	150× 80	2.2·3.7×2	3.7·5.5×2
3	390	410	360	1315	270	440	550	180	380	360	240	150× 80	5.5·7.5×2	7.5·11×2
3½	440	475	415	1390	315	510	645	200	450	420	280	150× 80	11·15×2	2.2·3.7×4
4	510	545	475	1375	360	580	730	220	520	480	320	200×250	2.2·3.7×4	5.5·7.5×4
4½	550	610	530	1570	405	650	820	240	550	540	360	200×250	5.5·7.5×4	7.5·11×4
5	590	675	590	1720	450	720	900	260	600	600	400	200×250	7.5·11×4	15·18.5×4
5½	650	745	645	1830	495	790	980	280	670	660	440	200×250	15·18.5×4	22·30×4
6	700	810	705	2050	540	860	1060	320	750	720	480	200×250	22·30×4	37·45×4

No.	Bearing	Base														Approx. mass (kg) (excluding motor and pulley)	
		Fig.	I	J	S	S ₁	T	T ₁	X	U	V	Y	h	h ₁	Anchor bolt hole	B type	D type
2	6307	1	500	1050	—	465	550	—	250	922.5	92.5	17.5	75	170	6×φ15	130	150
2½	6308		585	1150	—	550	650	—	250	1002.5	112.5	17.5	75	170	6×φ15	165	190
3	6309		680	1400	480	640	600	—	400	1220	140	20	100	225	8×φ19	280	320
3½	6310		780	1500	530	740	700	—	400	1300	160	20	100	225	8×φ19	340	390
4	6311	2	900	1550	600	860	750	—	400	1320	190	20	100	225	8×φ19	480	530
4½	6312		990	1750	690	930	—	525	350	1490	200	30	125	275	10×φ24	600	680
5	6313		1070	1900	720	1010	—	600	350	1620	220	30	125	275	10×φ24	735	825
5½	6314		1180	2000	830	1120	—	650	350	1700	240	30	125	285	10×φ24	1070	1170
6	6316		1280	2220	880	1220	—	710	400	1900	260	30	125	285	10×φ24	1290	1400

- For companion flange dimensions, see the companion flange dimensional drawings.
- The discharge direction TV-L, TH-L and BH-L types are also manufactured as a standard.
- Values in brackets are for the size depends on the motor.

■ Assembly drawing (No.6½ - 8)



■ Dimensions

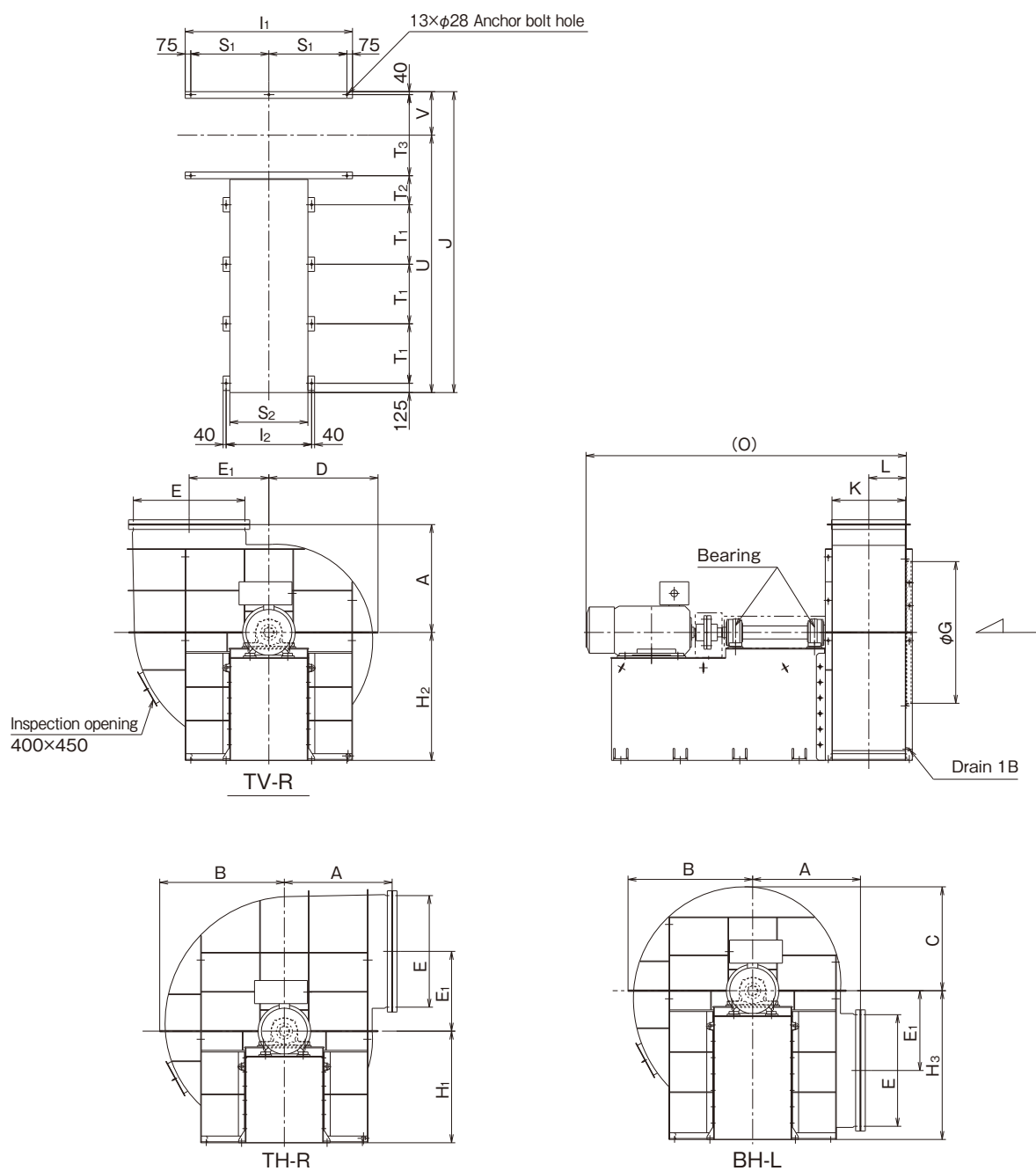
(Unit :mm)

No.	Main Unit									Suction	Discharge		Bearing		Maximum motor output (kW)
	A	B	C	E ₁	H ₁	H ₂	H ₃	L	O	G	E	K	Drive side	Non-drive side	
6½	795	880	765	582.5	840	950	1090	277	2540	1030	815	535	6320	6224	90
7	860	950	825	630	900	1010	1170	300	2690	1105	880	580	6320	6224	132
8	975	1075	935	715	1010	1150	1350	340	3060	1265	1000	660	6320	6224	200

No.	Base											Approx. mass (kg) (excluding motor and pulley)
	I ₁	I ₂	J	S ₁	S ₂	T ₁	T ₂	T ₃	U	V	X	
6½	1250	660	2400	1100	580	595	445	615	2057.5	342.5	115	1380
7	1350	660	2600	1200	580	670	445	660	2235	365	120	1520
8	1500	800	2837	1350	720	725	495	740	2432	405	117	1980

- For companion flange dimensions, see the companion flange dimensional drawings.
- The discharge direction TV-L, TH-L and BH-R types are also manufactured as a standard.
- Values in brackets are for the size depends on the motor.

Assembly drawing (No.9 - 12)



Dimensions

(Unit :mm)

No.	Main Unit										Suction	Discharge		Bearing		Maximum motor output (kW)
	A	B	C	D	E ₁	H ₁	H ₂	H ₃	L	O	G	E	K	Drive side	Non-drive side	
9	1050	1280	1055	1120	805	1200	1350	1520	379	3420	1425	1125	740	6324	6230	200
10	1215	1415	1170	1240	895	1280	1430	1660	422	3760	1580	1250	825	6324	6230	200
11	1335	1545	1285	1360	985	1390	1580	1850	462	4180	1740	1375	905	6330	6236	300
12	1450	1680	1400	1470	1072.5	1500	1720	2000	504	4265	1905	1500	990	6330	6236	300

No.	Base										Approx. mass (kg) (excluding motor and pulley)	
	I ₁	I ₂	J	S ₁	S ₂	T ₁	T ₂	T ₃	U	V		
9	1650	1000	3290	750	900	630	395	840	2830	460	3000	
10	1850	1000	3375	850	900	630	395	925	2872.5	502.5	3400	
11	2000	1150	3960	925	1050	800	390	1005	3417.5	542.5	4500	
12	2250	1150	4045	1050	1050	800	390	1090	3460	585	5000	

- For companion flange dimensions, see the companion flange dimensional drawings.
- The discharge direction TV-L, TH-L and BH-R types are also manufactured as a standard.
- Values in brackets are for the size depends on the motor.

Companion flange dimensional drawings

Suction companion flange

Fig. 1

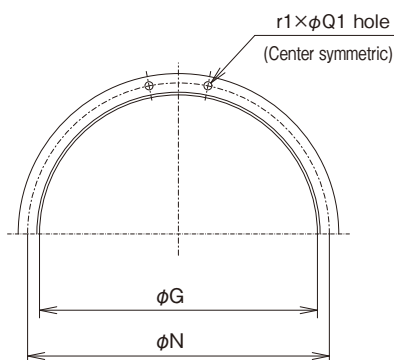


Fig. 2

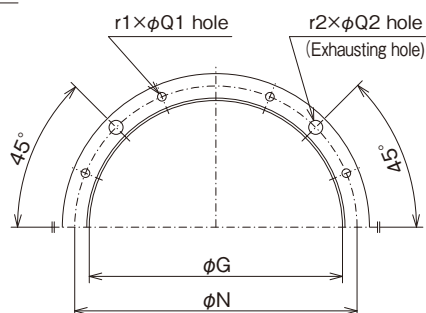
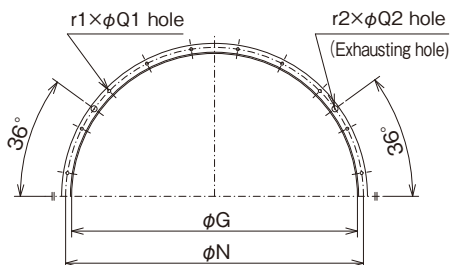
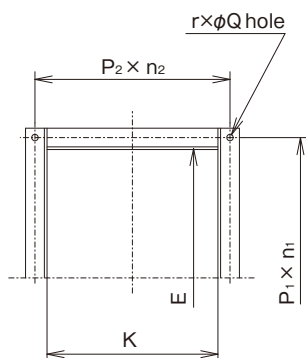


Fig. 3



Discharge companion flange



(Unit :mm)

Model	No.	G	N	r1×Q1	r2×Q2	Steel size	Fig.
CTFII	2	245	275	12×10	—	L25×25×3	1
	2½	310	340	12×10	—	L25×25×3	
	3	380	415	12×12	—	L30×30×3	
	3½	450	485	12×12	—	L30×30×3	
	4	520	565	16×15	—	L40×40×5	
	4½	550	595	16×15	—	L40×40×5	
	5	600	645	16×15	—	L40×40×5	
	5½	670	715	16×15	—	L40×40×5	
CTF3	6	750	795	16×15	—	L40×40×5	2
	6½	1030	1090	16×15	4×30	L50×50×6	
	7	1105	1165	16×15	4×30	L50×50×6	
	8	1265	1325	16×15	4×30	L50×50×6	
	9	1425	1485	20×15	4×30	L50×50×6	
	10	1580	1640	20×15	4×30	L50×50×6	
	11	1740	1810	20×19	4×36	L65×65×6	3
	12	1905	1975	20×19	4×36	L65×65×6	

(Unit :mm)

Model	No.	E	K	P ₁ × n ₁	P ₂ × n ₂	r×Q	Steel size
CTFII	2	240	160	90 × 3	63 × 3	12×10	L25×25×3
	2½	300	200	82 × 4	76 × 3	14×10	L25×25×3
	3	360	240	79 × 5	69 × 4	18×12	L30×30×3
	3½	420	280	76 × 6	79 × 4	20×12	L30×30×3
	4	480	320	87.5 × 6	73 × 5	22×12	L40×40×5
	4½	540	360	84 × 7	81 × 5	24×12	L40×40×5
	5	600	400	92 × 7	89 × 5	24×12	L40×40×5
	5½	660	440	88 × 8	97 × 5	26×12	L40×40×5
CTF3	6	720	480	85 × 9	87.5 × 6	30×15	L40×40×5
	6½	815	535	97 × 9	100 × 6	30×15	L50×50×6
	7	880	580	94 × 10	92 × 7	34×15	L50×50×6
	8	1000	660	96 × 11	90 × 8	38×15	L50×50×6
	9	1125	740	99 × 12	99 × 8	40×15	L50×50×6
	10	1250	825	93.5 × 14	98 × 9	46×15	L50×50×6
	11	1375	905	97 × 15	97.5 × 10	50×19	L65×65×6
	12	1500	990	98 × 16	96 × 11	54×19	L65×65×6

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