

Turbo blowers

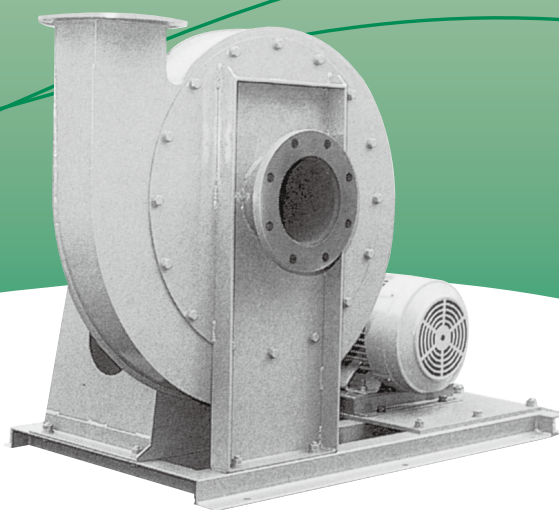
CTB

TERAL



Triple e series

60Hz



TERAL INC.

Applications

Various fuel devices; air blow to various industrial furnaces; air slide; ventilation for liquid agitation, oxidation and drying, and into tunnels; and other general air blow/exhaust.

Features

- ① Energy-saving fan equipped with top-runner (equivalent to IE3) motor.
- ② High performance
Operable at high efficiency due to design based on hydromechanics.
- ③ Tough structure
Unlimited endurance strength due to sufficient reinforcement by steel material and strong support of the shaft by bearing.
- ④ Easy handling
Easy to install and relocate due to rational reduction in size and weight.
- ⑤ Smooth operation
Vibration-free, quiet and smooth operation due to perfect balance in rotating parts.

Model type description

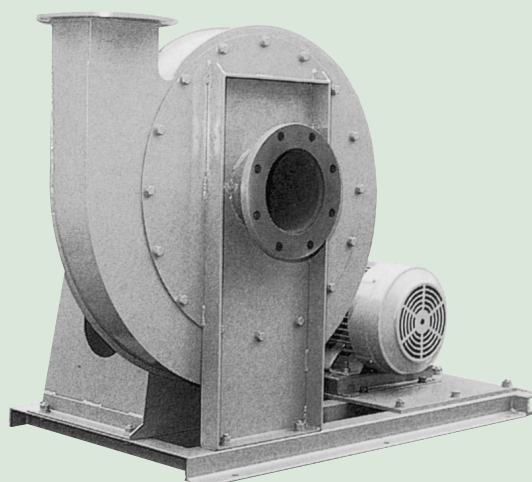
CTB - 100 4 - TV - R - OB - B - e

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- | | |
|-----------------------------|---|
| ① Model | Turbo blower |
| ② Fan size | Maximum static pressure 10kPa |
| ③ Fan size | Discharge bore 4-inch (φ100) |
| ④ Discharge direction | Top vertical |
| ⑤ Rotation direction | Clockwise |
| ⑥ Power transmission method | Single inlet, overhang mounted impeller, belt driven type |
| ⑦ Installation method | Floor type |
| ⑧ Motor efficiency | e: top-runner efficiency (equivalent to IE3) |

* Stainless steel models are designated as SCTB.
Since outer dimensions may differ, request drawings.

CTB-OB



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

Standard specifications

Gas handled	0-80: air or equivalent gas
Structure	Impeller ... Turbo type backward curved blade Bearing ... Ball bearing
Material	Casing ... SS400, SPHC Impeller ... SS400, SPHC, etc. Shaft ... S45C
Power transmission method	OB type (single inlet overhang mounted impeller belt driven type) MOB type (single inlet overhang mounted impeller direct driven with coupling) HOH type (single inlet direct driven with horizontal electric motor)
Installation method	Floor type (B-type)
Coating	Priming and inner surface ... Rust-preventive coating Outer surface overcoating ... Acrylated alkyd resin coating 7.5BG5/1.5

Standard accessories

Power transmission method / installation method	OB-B	HOH-B	MOB-B
Common base	1	1	
Companion flange (suction/discharge)	1 each	1 each	1 each
V-belt guard	1		
V-pulley	1		
V-belt	1 set		
Coupling			1 set
Coupling guard			1
Bearing guard	1		1
Shaft seal	1		1

Special accessories

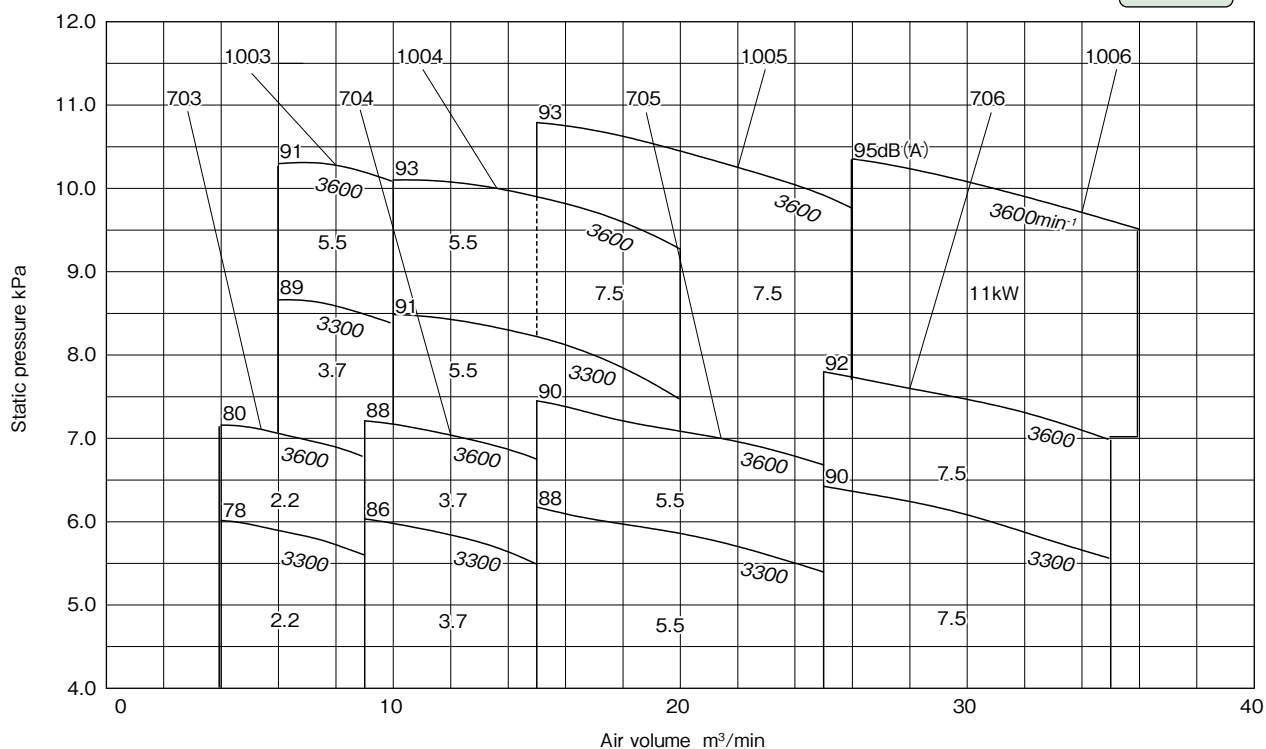
- Suction wire mesh
- Discharge damper, suction damper
- Connecting pipe, expansion joint

* For accessories other than the above, consult us.

■ Selection chart

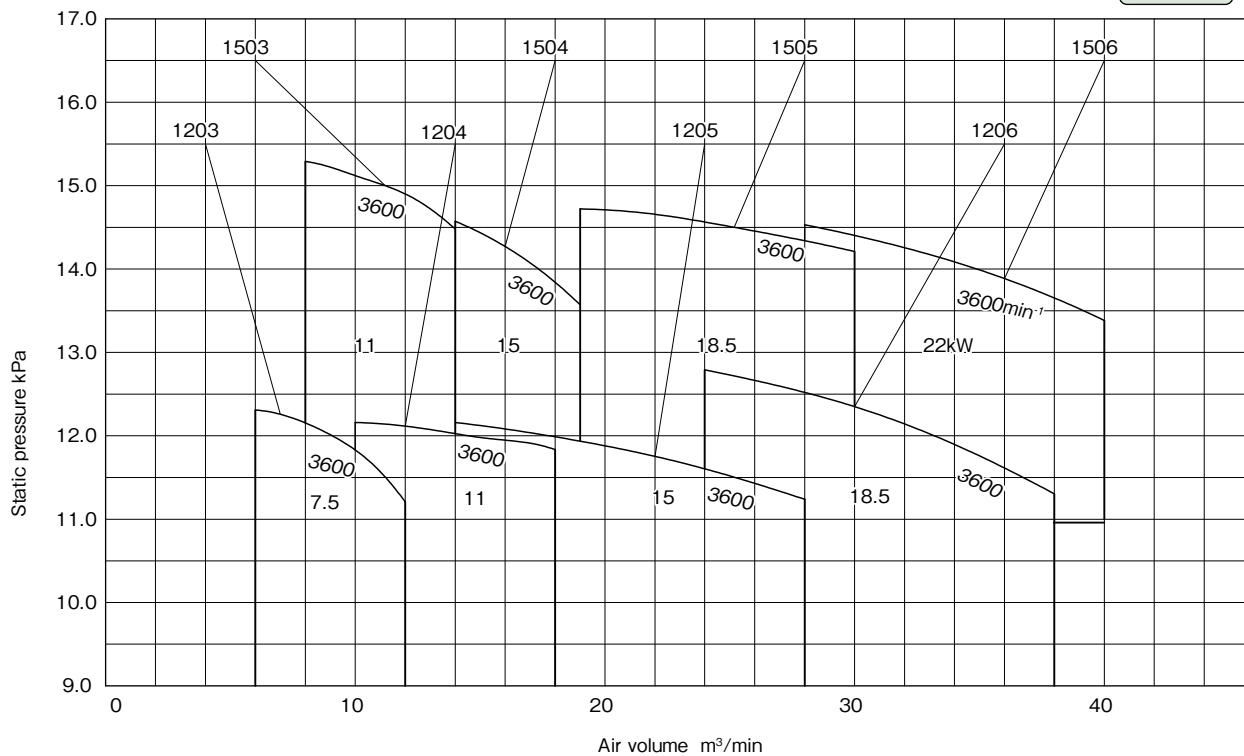
● 700-1000

4P

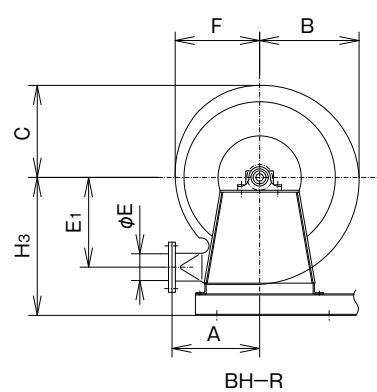
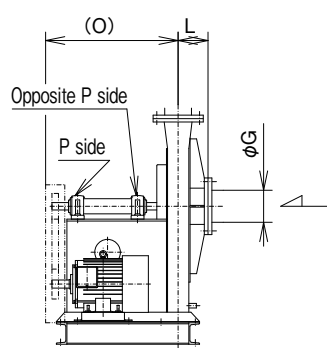
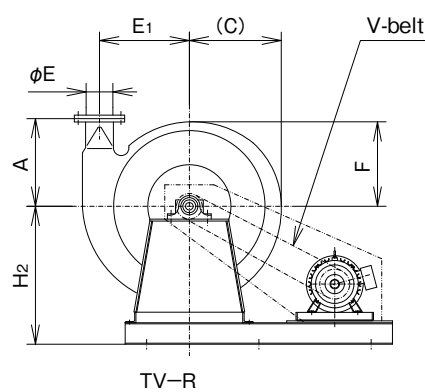
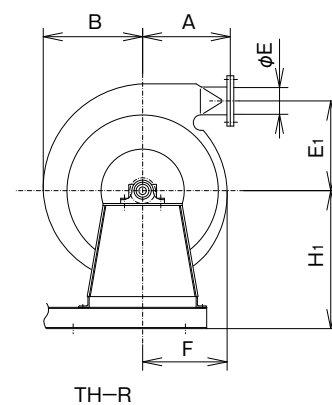
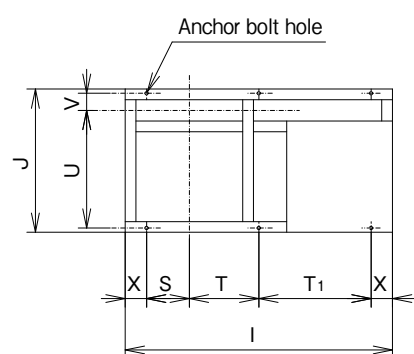


● 1200-1500

4P



Assembly drawing



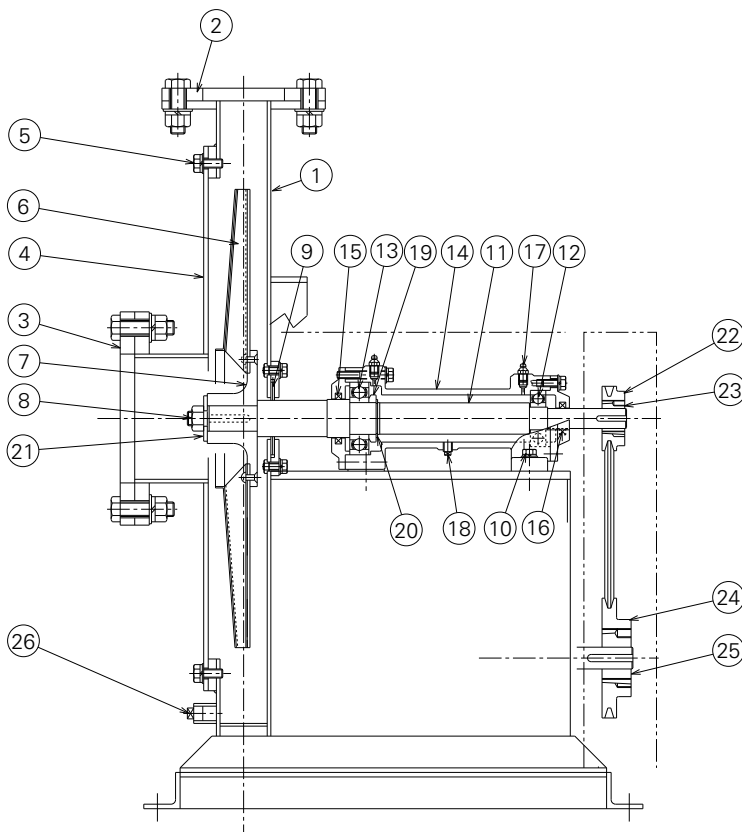
Dimensions

(Unit :mm)

No.	Main Unit											Suction	Discharge	Bearing		Motor output (kW)	Base											Approx. mass (kg) (excluding motor)
	A	B	C	F	E ₁	H ₁	H ₂	H ₃	L	O	G	E	P side	Opposite P side	I		J	S	T	T ₁	U	V	X	Anchor bolt hole				
703	300	330	315	300	300	410	430	440	120	440	5B	3B	6305	6307	2.2	850	550	120	225	345	425	95	80	6×φ12	145			
704	330	365	340	315	335	460	480	510	130	500	6B	4B	6306	6308	3.7	950	655	125	250	375	495	120	100	6×φ15	155			
705	350	390	355	320	355	470	500	540	140	520	6B	5B	6307	6309	5.5	1000	680	125	275	400	510	130	100	6×φ15	180			
706	380	400	360	320	360	480	520	560	150	595	6B	6B	6308	6308	7.5	1100	760	175	275	450	580	140	100	6×φ15	210			
1003	360	390	375	360	360	510	525	540	120	490	5B	3B	6306	6308	3.7- 5.5	1000	515	145	275	420	430	55	80	6×φ12	195			
1004	390	425	400	375	395	570	595	625	130	510	6B	4B	6307	6309	5.5	1150	560	150	325	475	450	70	100	6×φ15	200			
1005	410	450	415	380	415	585	620	655	140	555	6B	5B	6308	6308	7.5	1250	640	200	325	525	520	80	100	6×φ15	220			
1006	450	460	420	380	420	590	630	680	150	620	6B	6B	6309	6309	11	1300	715	200	350	550	585	90	100	6×φ15	265			
1203	390	420	405	390	390	540	550	570	120	500	5B	3B	6307	6309	7.5	1050	520	170	275	445	435	55	80	6×φ15	200			
1204	430	455	430	405	425	600	620	650	130	565	6B	4B	6308	6308	11	1200	620	200	300	500	510	70	100	6×φ15	230			
1205	440	480	445	410	445	610	650	685	140	660	6B	5B	6309	6309	15	1250	695	200	325	525	575	80	100	6×φ15	260			
1206	460	490	450	410	450	620	660	710	150	700	6B	6B	6310	6310	18.5	1350	755	225	350	575	625	90	100	6×φ15	290			
1503	430	460	445	430	430	600	610	635	120	555	5B	3B	6308	6308	11	1200	600	225	275	500	505	65	100	6×φ15	260			
1504	475	500	475	450	470	625	650	695	130	635	6B	4B	6309	6309	15	1250	675	225	300	525	565	70	100	6×φ15	300			
1505	485	525	490	455	490	640	680	730	140	690	6B	5B	6310	6310	18.5	1300	735	225	325	550	615	80	100	6×φ15	320			
1506	525	535	495	455	495	650	690	755	150	730	6B	6B	6311	6311	22	1350	790	225	350	575	660	90	100	6×φ15	340			

- 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.

Internal structure drawing

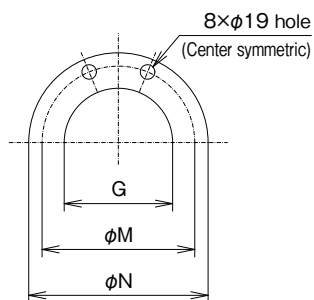


No.	Part name	Material
1	Casing	SS400
2	Discharge companion flange	SS400
3	Suction companion flange	SS400
4	Suction cover	SS400
5	Suction cover mounting bolt	SS400
6	Impeller	
7	Impeller hub	FC200
8	Impeller retaining nut	SS400
9	Shaft seal	#1995
10	Bearing box mounting bolt	SS400
11	Shaft	S45C
12	Ball bearing	SUJ2
13	Ball bearing	SUJ2
14	Bearing case	FC200
15	Felt ring	
16	Felt ring	
17	Grease nipple	BsBM
18	Oil-drain port	
19	Bearing nut	SS400
20	Bearing washer	
21	Impeller retaining washer	SS400
22	V-pulley	FC200
23	Bushing	FC200
24	V-pulley	FC200
25	Bushing	FC200
26	Drain	SGP

Companion flange dimensional drawings

Suction companion flange

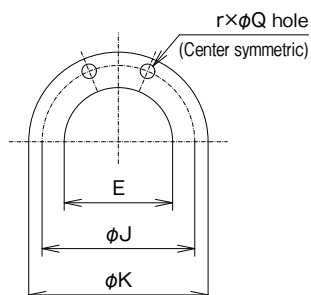
(Unit :mm)



No.		G	M	N
OB	MOB·HOH-S			
703.1003 1203.1503	7035. 7036 10035.10036	5B	200	235
704 - 706 1004 -1006 1204 -1206 1504 -1506	7045 - 7065 7046 - 7066 10045 -10065 10046 -10066	6B	230	265

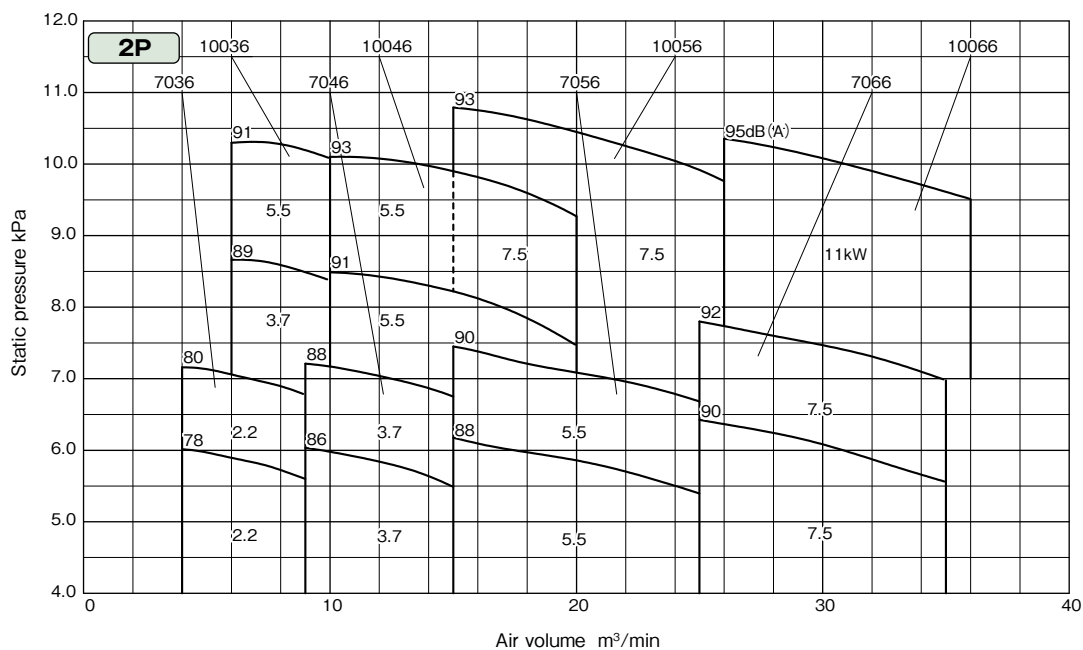
Discharge companion flange

(Unit :mm)

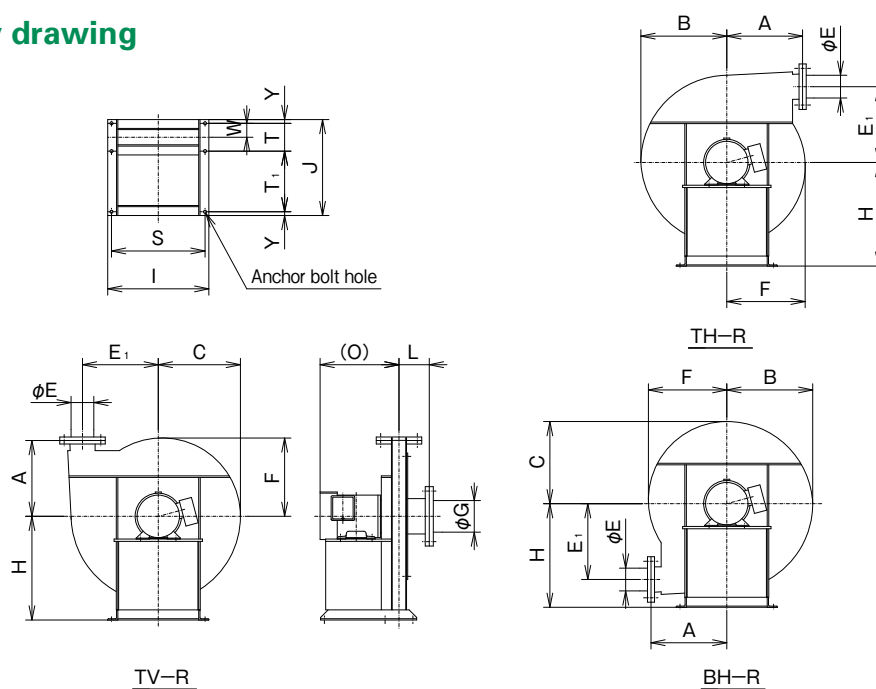


No.		E	J	K	r x Q
OB	MOB·HOH-S				
703.1003 1203.1503	7035. 7036 10035.10036	3B	145	180	4×19
704.1004 1204.1504	7045. 7046 10045.10046	4B	165	200	8×19
705.1005 1205.1505	7055. 7056 10055.10056	5B	200	235	8×19
706.1006 1206.1506	7065. 7066 10065.10066	6B	230	265	8×19

Selection chart



Assembly drawing



Dimensions

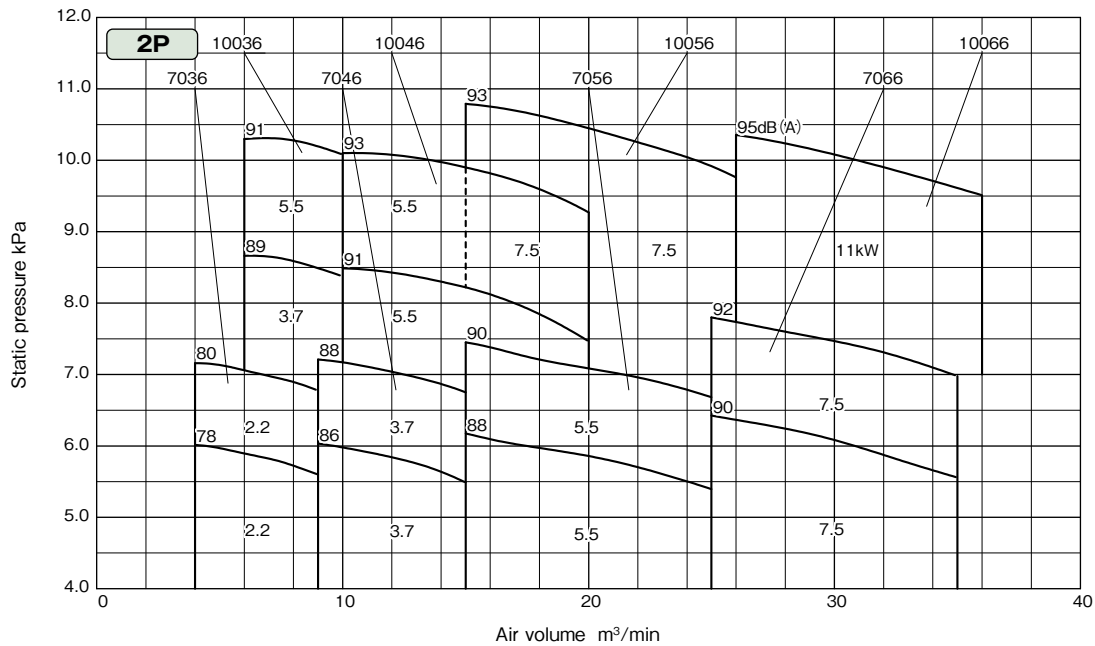
(Unit :mm)

No.	Main Unit								Suction	Discharge	Motor output (kW)	Base							Anchor bolt hole	Approx. mass (kg) (excluding motor)
	A	B	C	F	E ₁	H	L	O				I	J	S	T	T ₁	W	Y		
7036	300	330	315	300	300	410	120	312	5B	3B	2.2	400	380	370	110	240	70	15	6×φ12	80
7046	330	365	340	315	335	460	130	368	6B	4B	3.7	450	450	410	140	270	90	20	6×φ15	100
7056	350	390	355	320	355	490	140	424	6B	5B	5.5	450	480	410	160	280	100	20	6×φ15	110
7066	380	400	360	320	360	510	150	434	6B	6B	7.5	450	500	410	180	280	110	20	6×φ15	130
10036	360	390	375	360	360	465	120	358	5B	3B	3.7 - 5.5	400	420	370	110	280	70	15	6×φ12	100
10046	390	425	400	375	395	520	130	414	6B	4B	5.5~7.5	450	510	410	140	330	90	20	6×φ15	120
10056	410	450	415	380	415	550	140	424	6B	5B	7.5	450	530	410	160	330	100	20	6×φ15	140
10066	450	460	420	380	420	580	150	558	6B	6B	11	500	630	460	180	410	110	20	6×φ15	200

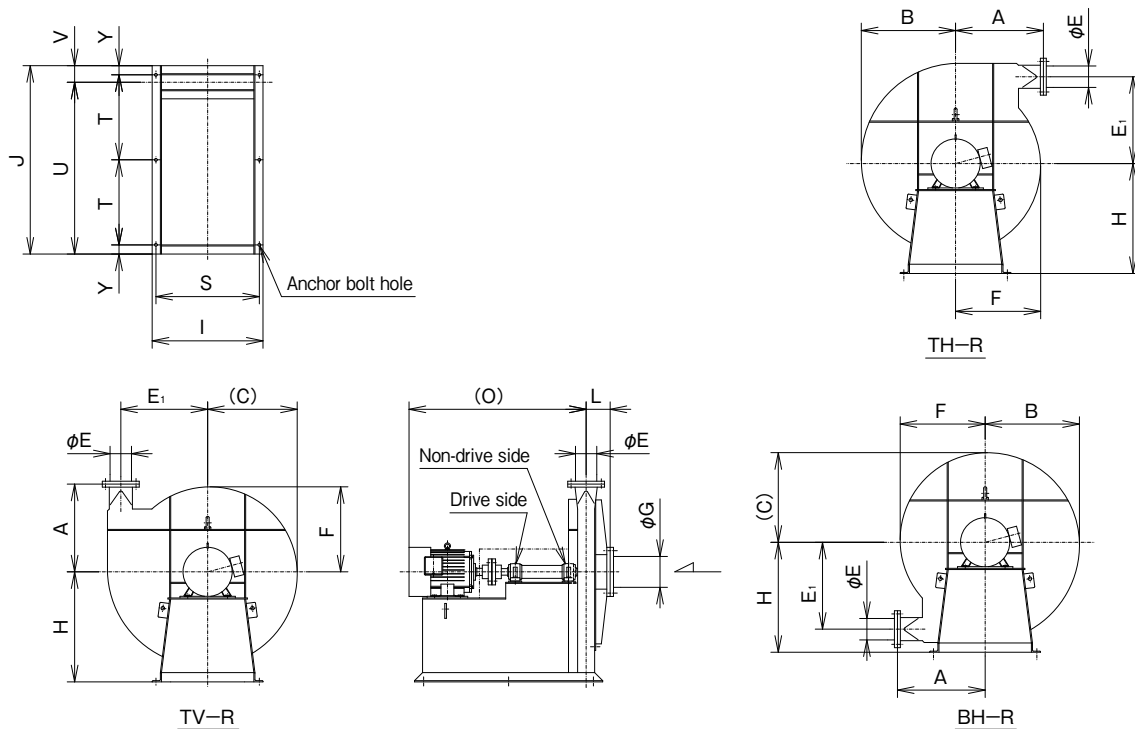
· For companion flange dimensions, see the companion flange dimensional drawings of the CTB-OB type.

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

Selection chart



Assembly drawing



Dimensions

(Unit :mm)

No.	Main Unit								Suction	Discharge	Bearing		Motor output (kW)	Base								Approx. mass (kg) (excluding motor)
	A	B	C	F	E ₁	H	L	O			Drive side	Non-drive side		I	J	S	T	U	V	Y	Anchor bolt hole	
7036	300	330	315	300	300	410	120	767	5B	3B	6307	6305	2.2	400	820	370	370	750	70	40	6×φ12	111
7046	330	365	340	315	335	460	130	887	6B	4B	6308	6306	3.7	450	960	410	430	870	90	50	6×φ15	134
7056	350	390	355	320	355	490	140	969	6B	5B	6309	6307	5.5	450	1030	410	465	930	100	50	6×φ15	160
7066	380	400	360	320	360	510	150	979	6B	6B	6309	6307	7.5	450	1100	410	500	990	110	50	6×φ15	230
10036	360	390	375	360	360	465	120	877	5B	3B	6308	6306	3.7 - 5.5	450	940	420	430	870	70	40	6×φ12	150
10046	390	425	400	375	395	525	130	959	6B	4B	6309	6307	5.5~7.5	500	1020	460	460	930	90	50	6×φ15	211
10056	410	450	415	380	415	555	140	969	6B	5B	6309	6307	7.5	500	1040	460	470	940	100	50	6×φ15	220
10066	450	460	420	380	420	590	150	1252	6B	6B	6309	6309	11	500	1300	460	600	1190	110	50	6×φ15	330

For companion flange dimensions, see the companion flange dimensional drawings of the CTB-OB type.

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



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