FTF・FTF-MD/MC FEATURES

FRP TURBO FAN

MODEL FTF

Model FTF FRP Turbo Fan has been recognized as breakthrough fan capable of long-term continuous operation, leading the industry in employing the oil lubricated bearing system.
Application of new techniques to strength analysis and research for optimal impeller/casing design and flow drove the development of this ideal fan that delivers vastly improved performance – and also energy savings, helping reduce CO_2 emissions.

• Highly improved efficiency

Efficiency has highly improved upon the former by the maximum ten percent at a total pressure. Also, sound level has been reduced by one to five decibel Ampere.

• The extension of capacity

Extended capacity range. A 30%(approx.) increase in static pressures and capacities gives the series extended application range, meaning cost saving where smaller models suffice.
It will make your initial cost reduce. The values of power for capacity range chart are calculated with the allowance of five percent for shaft brake horse power.

• FRP molded casing

Easy and economical maintenance work has been realized by employing FRP molded casing, excellent in corrosion resistance and endurance. Employing our own FRP-molding-technique has attained smooth-beautiful finished casing and quality preventing adherence of scale and dirt.

• Quality maintenance

Equipping open-close inspection window at the upper part of belt-guard facilitates interior check. Easy maintenance has attained by equipping the inspection window for model FTF-303 & FTF-403 casing.

MODEL FTF-MD

MOTOR DIRECT DRIVE

MODEL FTF-MC

COUPLING-DRIVE

• Inverter-compatible

The inverter is provided to cover a wide range of revolutions and capacities. It provides the same coverage as a belt-driven type. The inverter provides superb operational control and significant energy efficiency. This model is designed so that operation can continue with a commercial power source if the inverter fails.

• Greatly reduced maintenance requirements

The design eliminates burdensome monitoring, replacement, and tension adjustments and the like associated with V-belts. The only consumable part is the motor bearing, which provides a longer service life because the impeller mass represents the only radial load. The long life reduces running costs.

• Ease of maintenance

The casing is provided with a large opening offering easier access for casing inspection and impeller cleaning.

• Back pullout system (Model FTF-MD)

Models FTF503–803 are provided with a back pullout system that enables removal of the impeller together with the motor, suction duct, and discharge duct. This system facilitates maintenance and rapid parts replacement. The impeller can also be removed from the suction side.

• Space-saving design (Model FTF-MD)

Elimination of the space required for the belt and belt-drive system results in an even smaller footprint.

• Choose an electric motor to achieve targeted performance.

For Models FTF503–803, either MD or MC types, you can select a specific model of motor from a specific manufacturer. Choose either a general-purpose or universal motor.

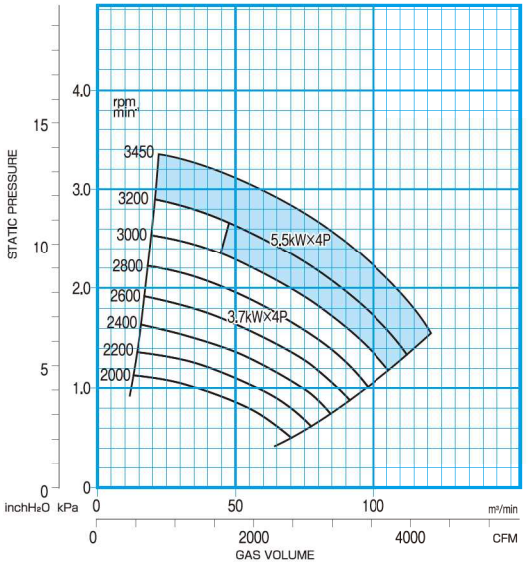
Typical applications:

- As a corrosive gas fan/blower in a chemical or pharmaceutical plant
- As a corrosive gas fan/blower for emissions treatment equipment and gas absorbing towers
- As a corrosive gas fan/blower in a sewage plant and a human-waste treatment plant
- As a corrosive gas fan/blower in a semiconductor fabrication plant
- As a fan /blower to eliminate coastal salt pollution

FTF-M CAPACITY RANGE CHART

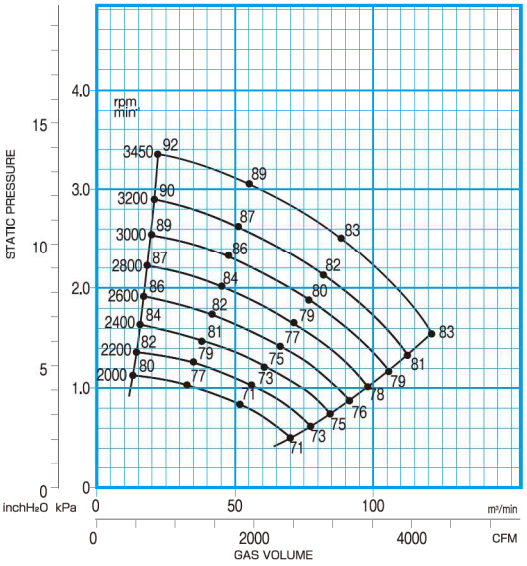
FTF253M

CAPACITY RANGE CHART



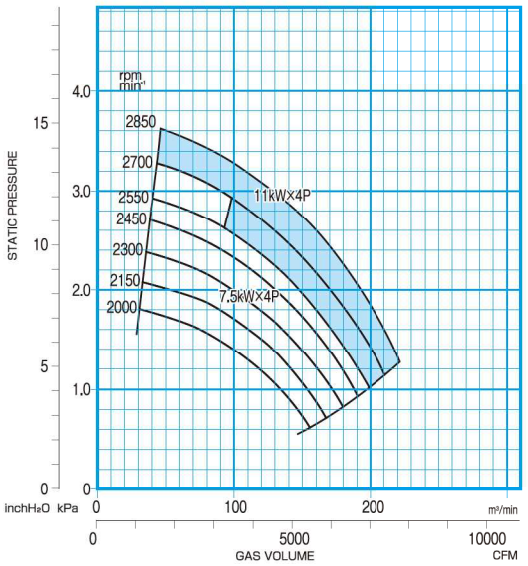
SOUND LEVEL

dB(A)



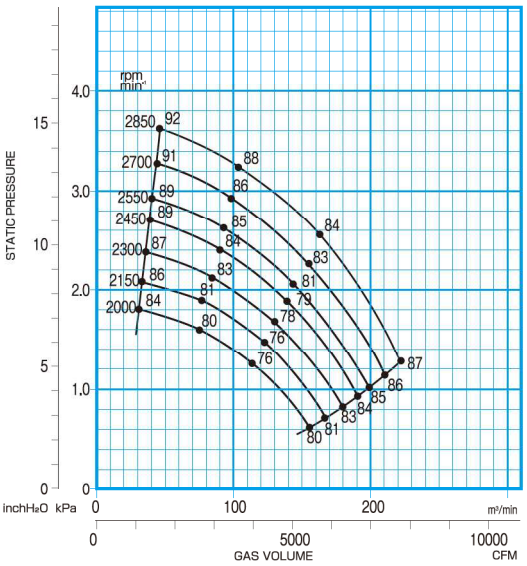
FTF303M

CAPACITY RANGE CHART



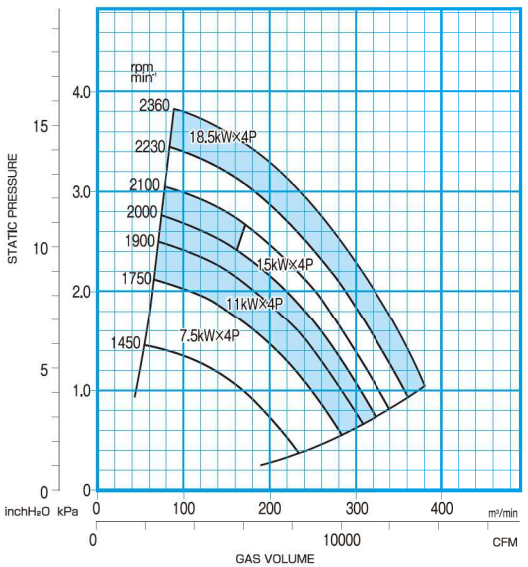
SOUND LEVEL

dB(A)



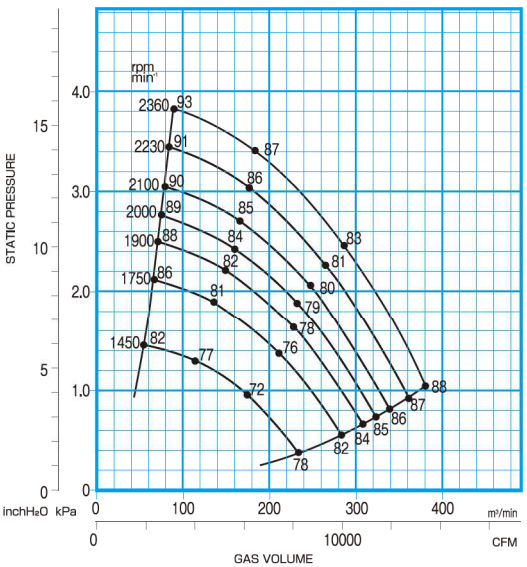
FTF403M

CAPACITY RANGE CHART

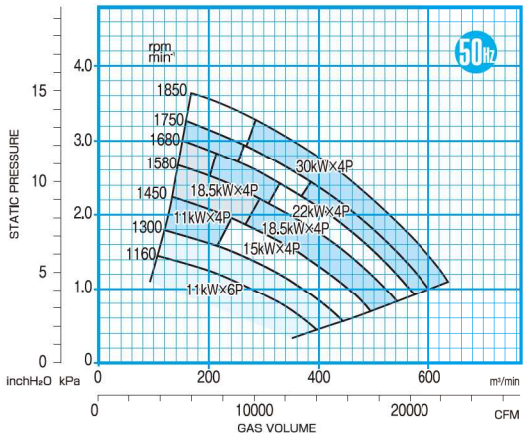
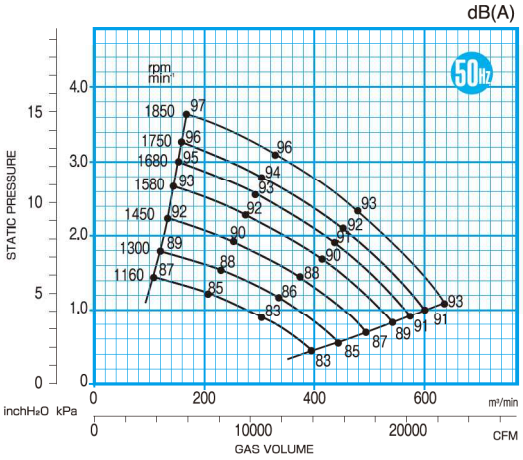
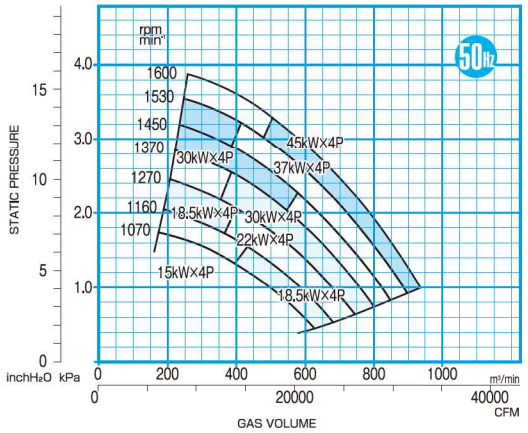
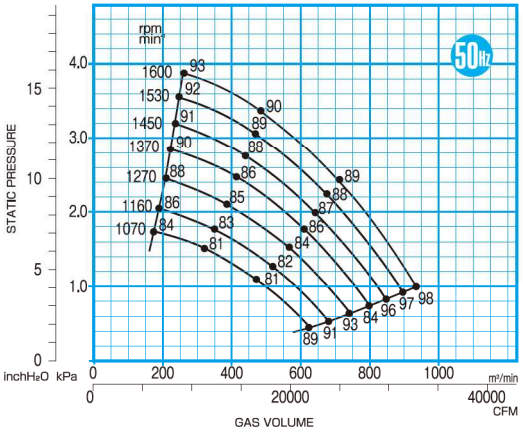
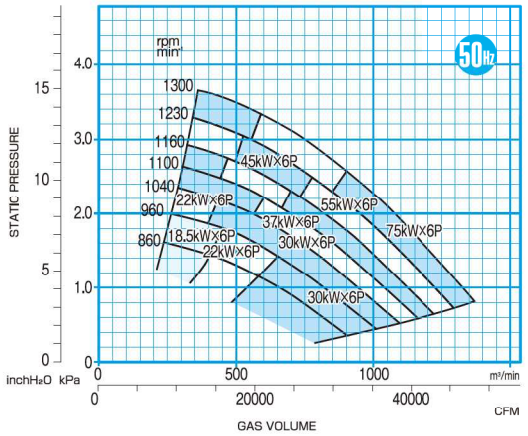
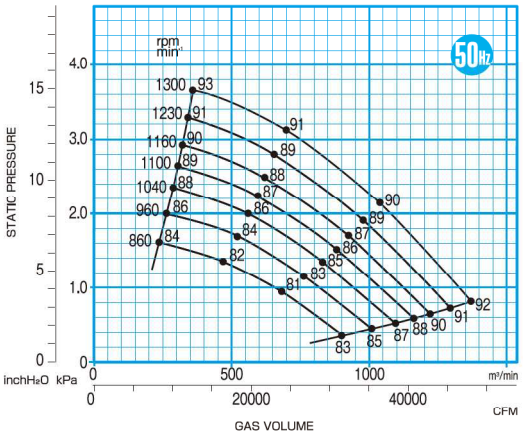
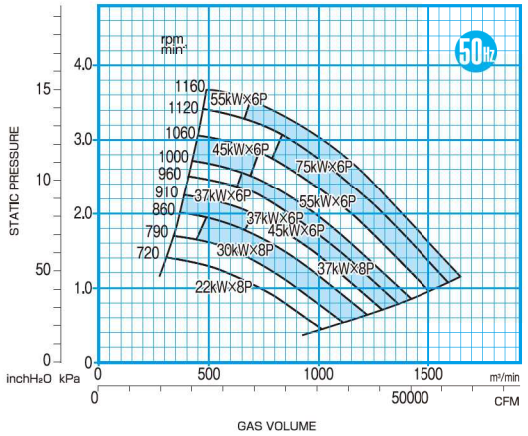
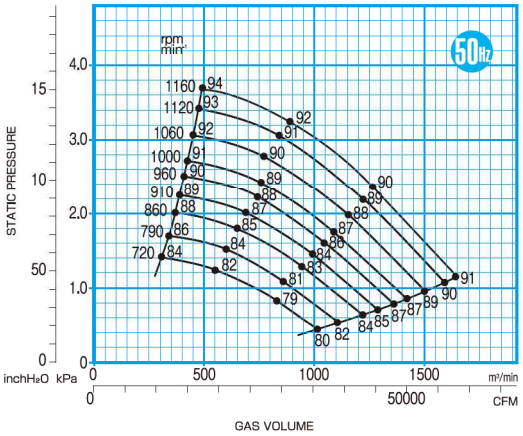


SOUND LEVEL

dB(A)

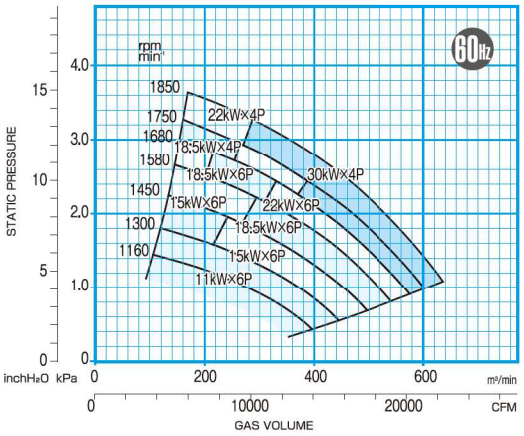


FTF-M CAPACITY RANGE CHART

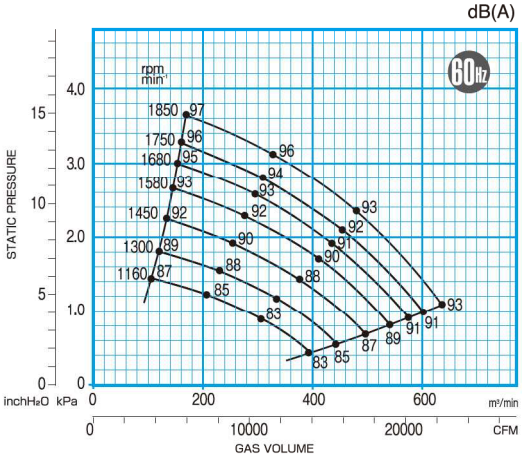
	CAPACITY RANGE CHART	SOUND LEVEL
FTF503M		
FTF603M		
FTF703M		
FTF803M		

FTF503M

CAPACITY RANGE CHART

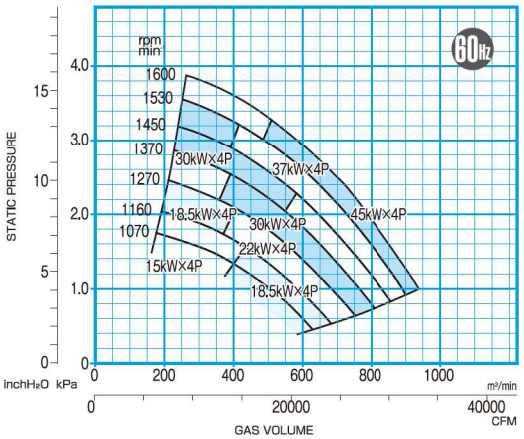


SOUND LEVEL

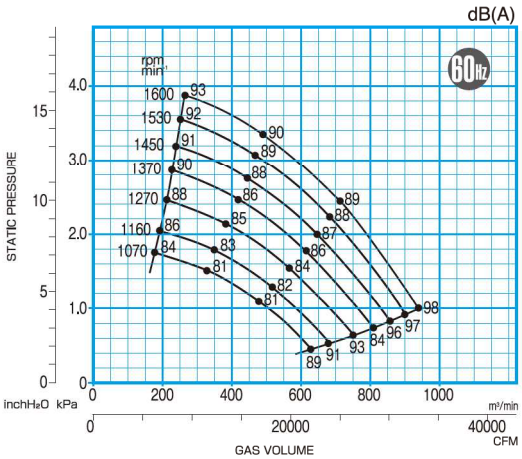


FTF603M

CAPACITY RANGE CHART

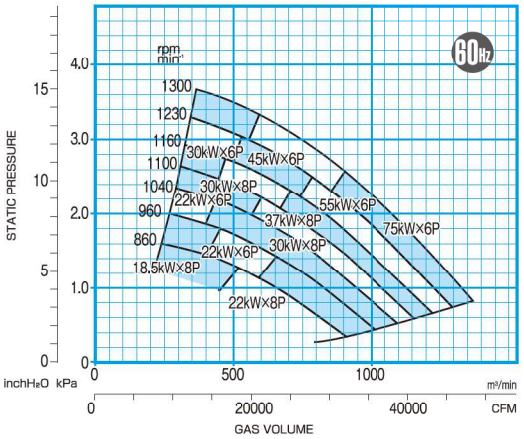


SOUND LEVEL

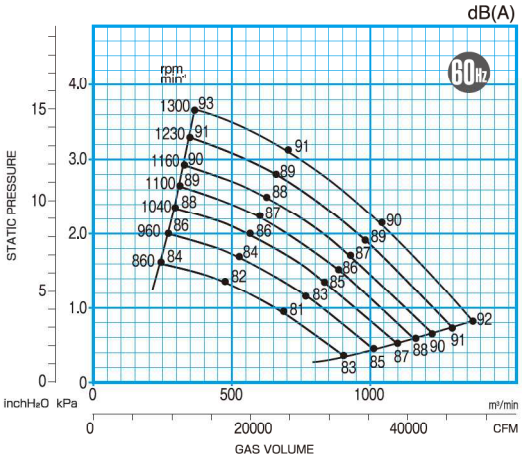


FTF703M

CAPACITY RANGE CHART

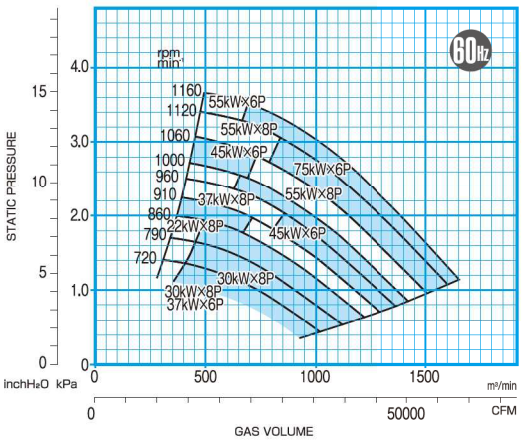


SOUND LEVEL

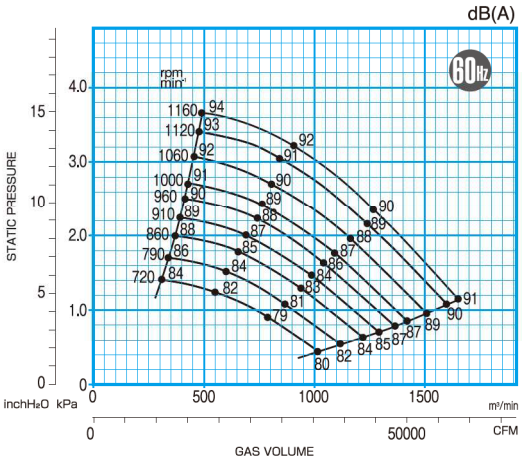


FTF803M

CAPACITY RANGE CHART

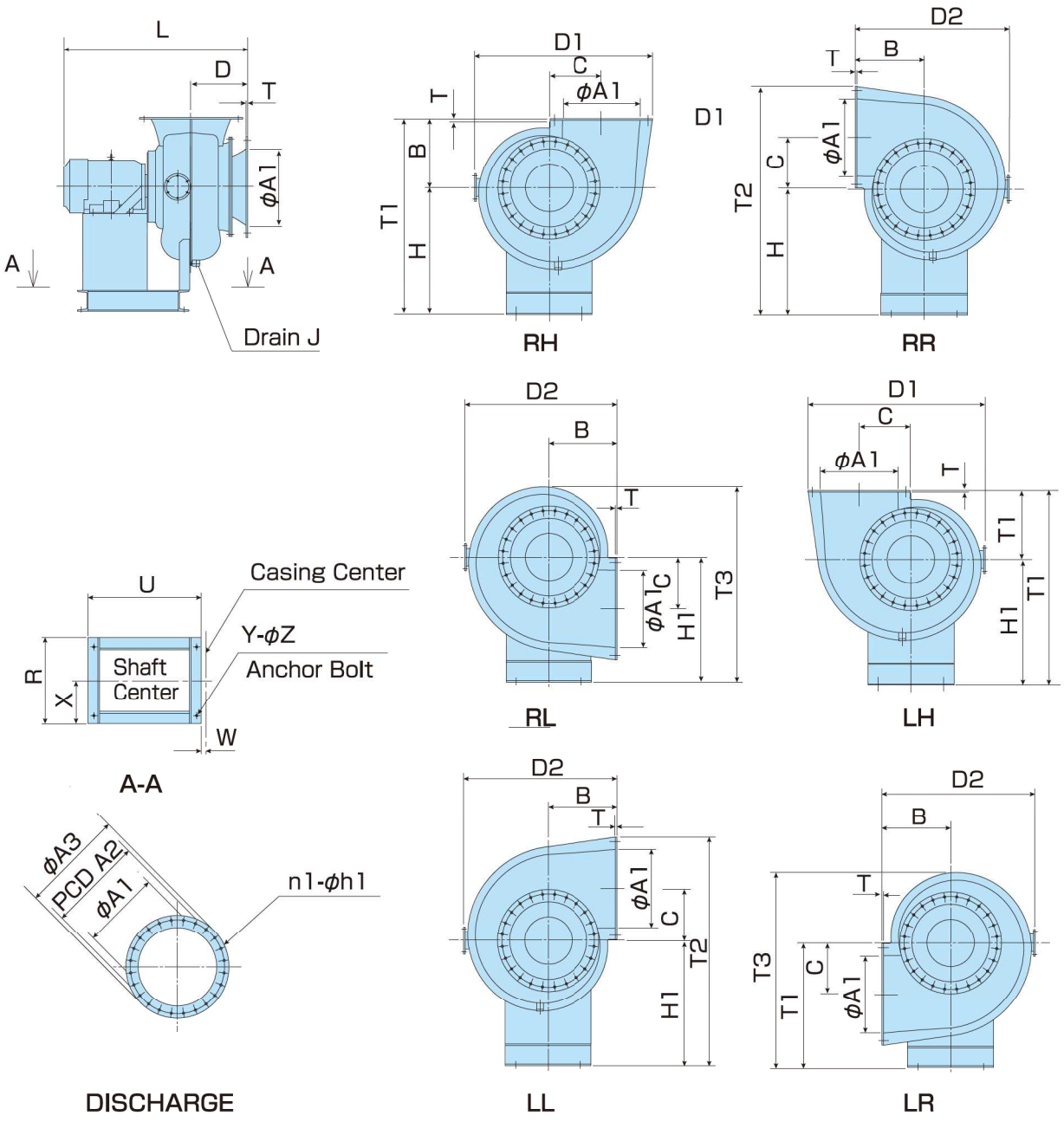


SOUND LEVEL



DIMENSIONS

FTF253MD·303MD·403MD

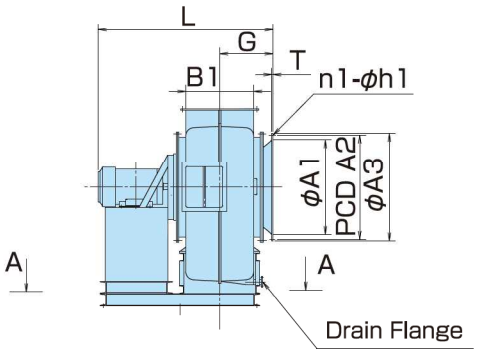


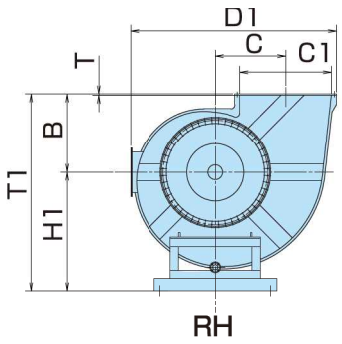
MODEL	CASING BODY										FLANGES					
	L	H1	B	C	D1	D2	T1	T2	T3	G	ϕA1	PDC A2	ϕA3	n1	h1	T
FTF253MD	821	600	340	250	843	726	940	1111	932	225	375	482	521	20	14	8
FTF303MD	1119	725	400	300	1267	892	1125	1321	1131	326	450	540	591	24	14	10
FTF403MD	1242	850	530	400	1340	1240	1380	1600	1381	380	600	660	700	28	14	10

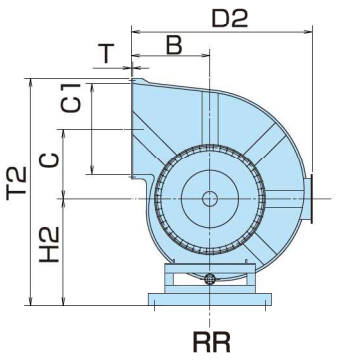
MODEL	BASE							BODY WEIGHT(Kg)
	J	R	U	W	X	Y	Z	STANDARD
FTF253MD	PF3/4"	430	550	20	215	4	14	82
FTF303MD	PF3/4"	500	750	5	250	6	14	139
FTF403MD	PF3/4"	580	800	14	290	6	18	189

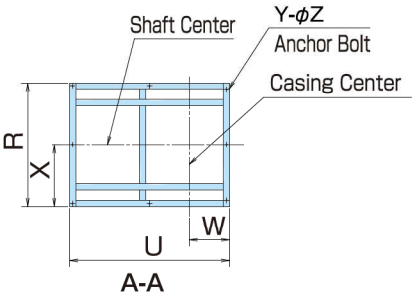
※BODY WEIGHT : Not Including Motor Weight.

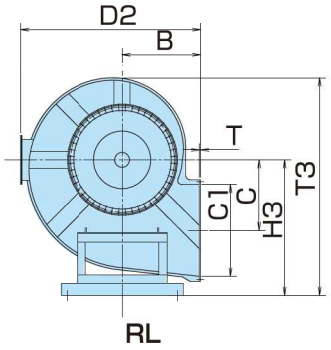
FTF503MD·603MD·703MD·803MD

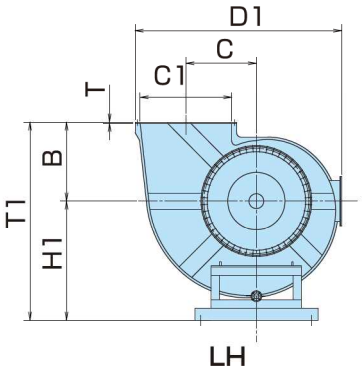


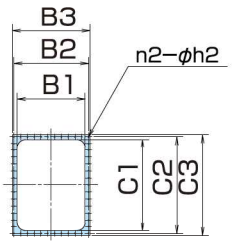




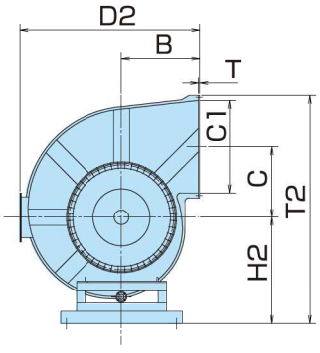


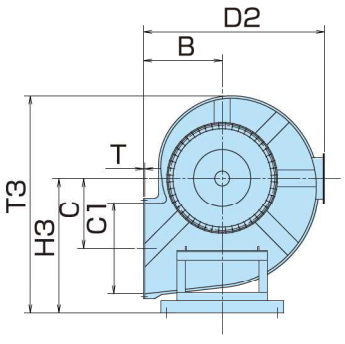






DISCHARGE





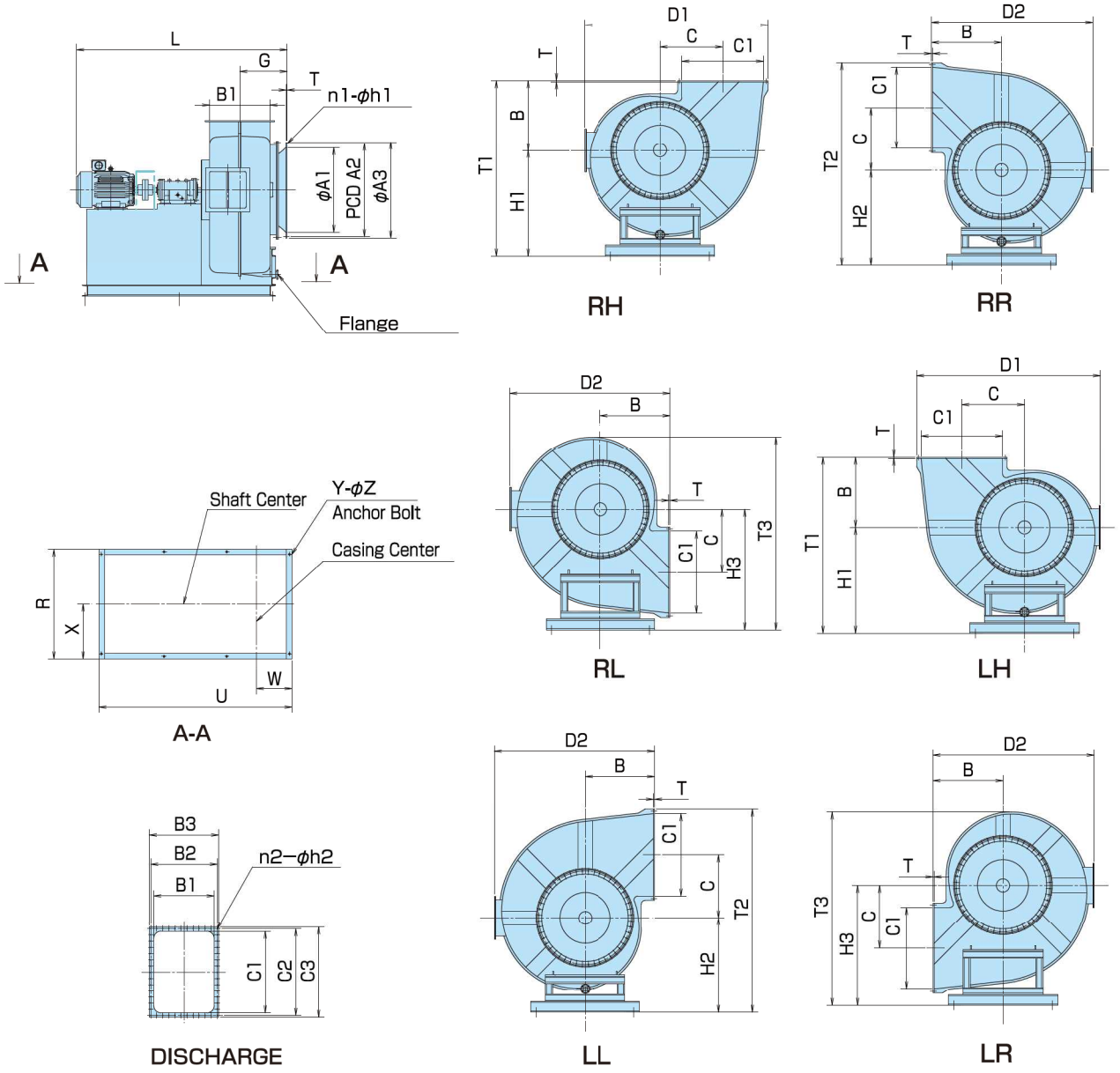
MODEL	CASING BODY												FLANGES				
	L	H1	H2	H3	B	C	D1	D2	T1	T2	T3	G	φA1	PDC A2	φA3	n1	h1
FTF503MD	1540	950	950	1100	600	540	1605	1405	1550	1895	1730	450	750	810	850	32	12
FTF603MD	1650	1100	1100	1300	720	645	1910	1675	1820	2225	2050	500	900	980	1020	40	14
FTF703MD	2010	1300	1150	1450	840	750	2215	1940	2140	2450	2320	580	1050	1130	1170	44	14
FTF803MD	2135	1450	1300	1650	960	860	2520	2210	2410	2780	2640	650	1200	1280	1320	48	14

MODEL	FLANGES									DRAIN	BASE						BODY WEIGHT(Kg)
	B1	B2	B3	C1	C2	C3	n1	h2	T	J	R	U	W	X	Y	Z	STANDARD
FTF503MD	520	595	630	700	765	810	32	12	12	40A	1050	1350	336	525	8	18	445
FTF603MD	624	702	750	840	913	960	40	14	13	40A	1200	1500	393	600	8	18	570
FTF703MD	730	814	850	980	1053	1100	48	14	14	40A	1350	1850	439	675	8	18	980
FTF803MD	830	913	950	1120	1190	1240	50	14	15	50A	1500	1950	489	750	8	18	1130

※BODY WEIGHT : Not Including Motor Weight.

DIMENSIONS

FTF503MC·603MC·703MC·803MC



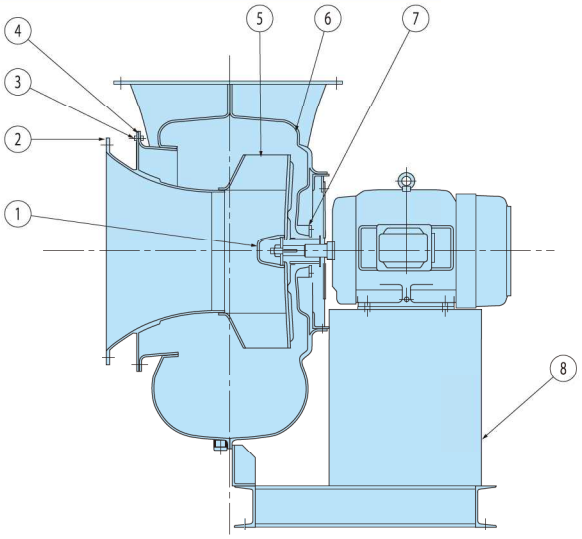
MODEL	CASING BODY												FLANGES				
	L	H1	H2	H3	B	C	D1	D2	T1	T2	T3	G	φA1	PDC A2	φA3	n1	h1
FTF503MC	2140	950	950	1100	600	540	1605	1405	1550	1895	1730	450	750	810	850	32	12
FTF603MC	2250	1100	1100	1300	720	645	1910	1675	1820	2225	2050	500	900	980	1020	40	14
FTF703MC	2670	1300	1150	1450	840	750	2215	1940	2140	2450	2320	580	1050	1130	1170	44	14
FTF803MC	28990	1450	1300	1650	960	860	2520	2210	2410	2780	2640	650	1200	1280	1320	48	14

MODEL	FLANGES									DRAIN	BASE						BODY WEIGHT(Kg)	BEARING	
	B1	B2	B3	C1	C2	C3	n1	h2	T	J	R	U	W	X	Y	Z	STANDARD	IMPELLER	PULLEY
FTF503MC	520	595	630	700	765	810	32	12	12	40A	900	1950	336	450	8	18	620	6315	6313
FTF603MC	624	702	750	840	913	960	40	14	13	40A	1100	2100	393	550	8	18	800	6315	6313
FTF703MC	730	814	850	980	1053	1100	48	14	14	40A	1300	2500	439	650	8	20	1440	6320	6318
FTF803MC	830	913	950	1120	1190	1240	50	14	15	50A	1500	2650	489	750	8	20	1720	6320	6318

※BODY WEIGHT : Not Including Motor Weight.

STRUCTURE

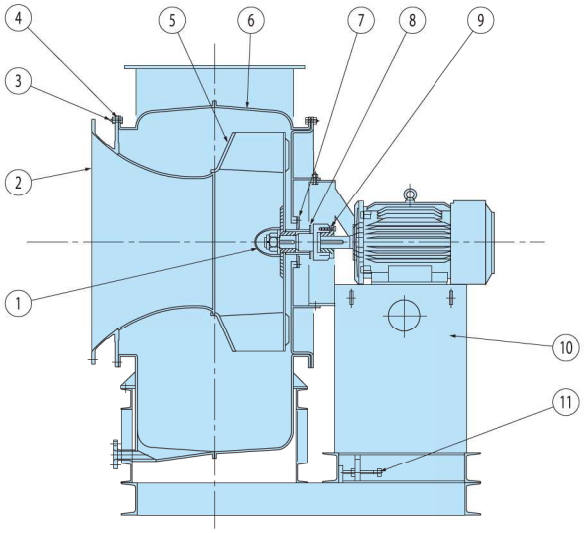
FTF253MD・303MD・403MD



No.	NAME OF PART	MATERIALS	QTY	
1	Nut Cover	FRP	1	
2	Suction Cone	FRP	1	
3	Suction Cone Set Bolt	SUS304	1set	
4	Gasket For Suction Cone	EPT	1	
5	Impeller	FRP	1	
6	Casing	FRP	1	
7	Sealing Base	PE	1	
8	Base	SS400	1	

Note: No drain plug on RL and LR types.

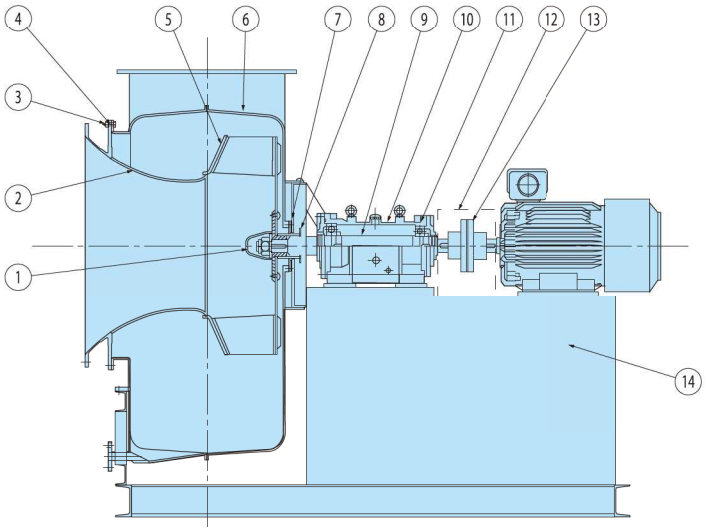
FTF503MD・603MD・703MD



No.	NAME OF PART	MATERIALS	QTY	
1	Nut Cover	FRP	1	
2	Suction Cone	FRP	1	
3	Suction Cone Set Bolt	SUS304	1set	
4	Casing Gasket	EPT	1	
5	Impeller	FRP	1	
6	Casing	FRP	1	
7	Sealing Plate	PE	1	
8	Gas Separator	HTPVC	1	
9	Shaft Coupling	SS45C	1	
10	Base	SS400	1	
11	Pushing Bolt For Upper Base	SUS304	2set	

Note: No drain plug on RL and LR types.

FTF503MC・603MC・703MC・803MC



No.	NAME OF PART	MATERIALS	QTY	
1	Nut Cover	FRP	1	
2	Suction Cone	FRP	1	
3	Suction Cone Set Bolt	SUS304	1set	
4	Casing Gasket	EPT	1	
5	Impeller	FRP	1	
6	Casing	FRP	1	
7	Sealing Plate	PE	1	
8	Gas Separator	HTPVC	1	
9	Shaft	SS45C	1	
10	Bearing Housing	FCD450	1	
11	Bearing	SUJ2	1	
12	Coupling Cover	SS400	1	
13	Coupling	FC200	1	
14	Base	SS400	1	

Note: No drain plug on RL and LR types.