FTE FEATURES

Reducing CO_2 Emissions with Our New Energy-Efficient Fans

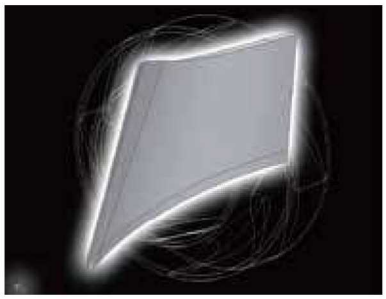
FRP TURBO ECONOMICAL FAN

NEW MODEL FTE

At Seikow, we were the first in Japan to develop economical corrosion-resistant fans. We also recognized that an optimized airstream is essential for improving the performance of fans. We therefore employed fluid design analysis based on computational fluid dynamics (CFD) to develop impeller blades with the ideal hydrofoil profile. This approach enabled us to successfully develop an optimized impeller shape.
This innovative impeller design features enhanced efficiency and reduced noise in operation. What's more, it has enabled us to develop our new Model FTE economical corrosion-resistant fans offering significant energy efficiency while reducing CO_2 emissions.

Model FTE251 ▶

3D CAD image of impeller



■ Impeller blade

■ 3D CAD image of impeller

CFD-based analysis has enabled us to optimize blade geometry. The result is an airfoil impeller blade that provides higher efficiency while reducing noise.

We were the first in the industry to adopt oil-lubricated bearings, which enable the Model FTF corrosion-resistant fan to provide continuous long-term operation under severe conditions. Many of our customers consider this the ideal fan. This new and evolutionary Model FTE offers all the excellent features of our conventional Model FTF along with additional eco-friendly features.

■ Belt guard with inspection door

■ Oil-lubricated bearings (cutaway view)

■ Inspection port (Model FTE301)

■ Cleaning port (Model FTE401)

• Improved Performance

The new model exceeds the total pressure efficiency of earlier models by up to 12% while reducing noise levels by 1 to 5 dB(A).

• FRP Molded Parts

The fan's main components are made of highly durable corrosion-resistant FRP, ensuring easy, low-cost maintenance. We produce our FRP parts with a proprietary mechanical molding technology noted for producing a high-quality smooth surface finish that is highly resistant to the accumulation of scale and dirt.

• Increased Capacity

Thanks to the significant increase in static pressure and air capacity ranges, this model is compatible with an even wider range of applications. This model can be used to replace older and larger models for the same application, decreasing initial costs. The selection table shows the shaft power within a 5% margin.

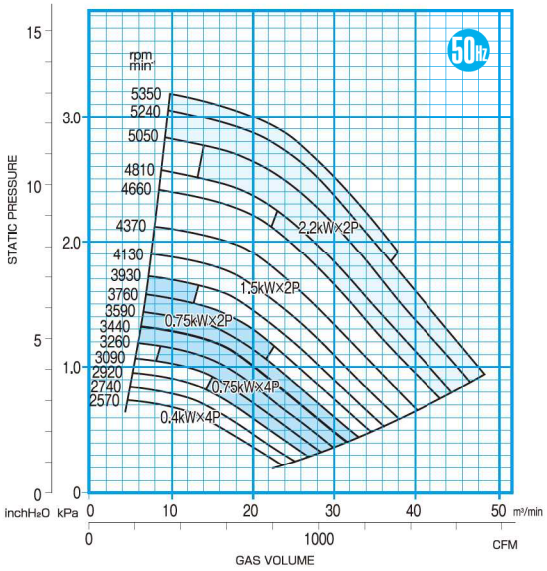
• Backward Compatibility

For assured compatibility, Model FTE has dimensions identical to those of the preceding Model FTF-III. Thus, you can increase performance simply by replacing the impeller and suction cone.

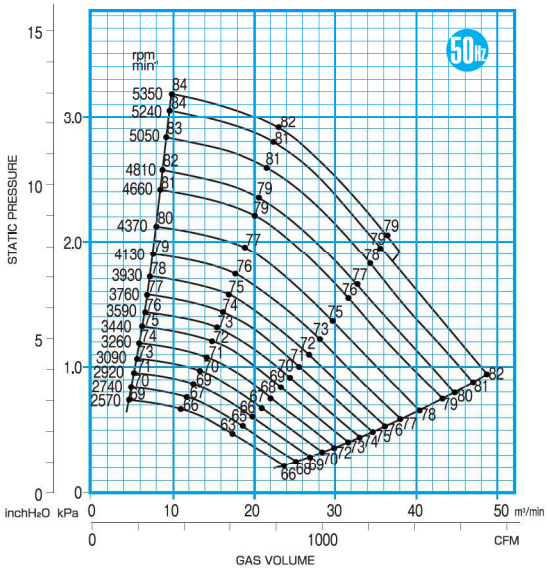
FTE CAPACITY RANGE CHART

FTE151

CAPACITY RANGE CHART

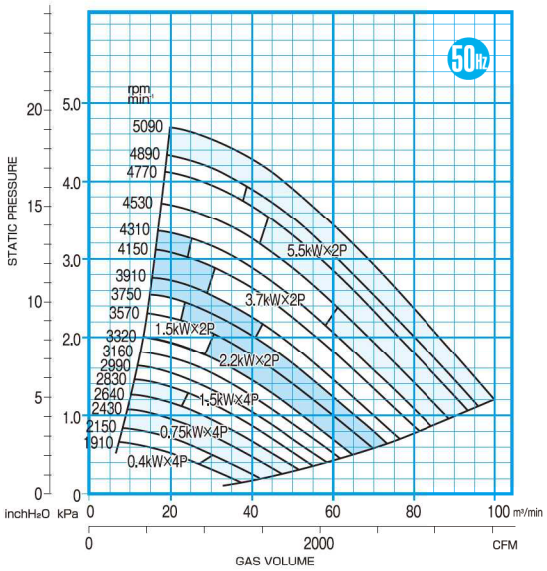


SOUND LEVEL

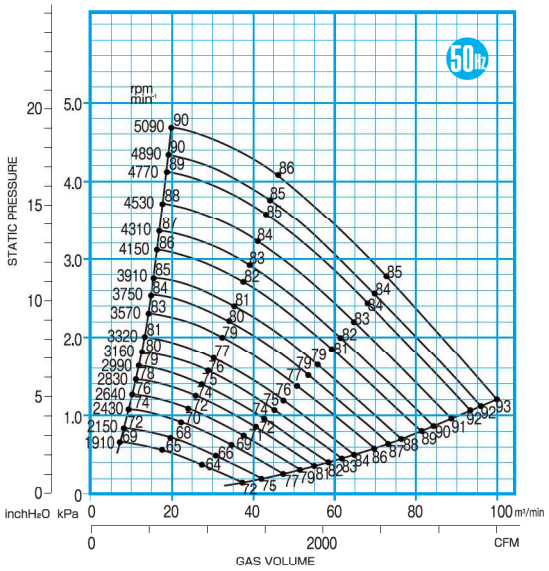


FTE201

CAPACITY RANGE CHART

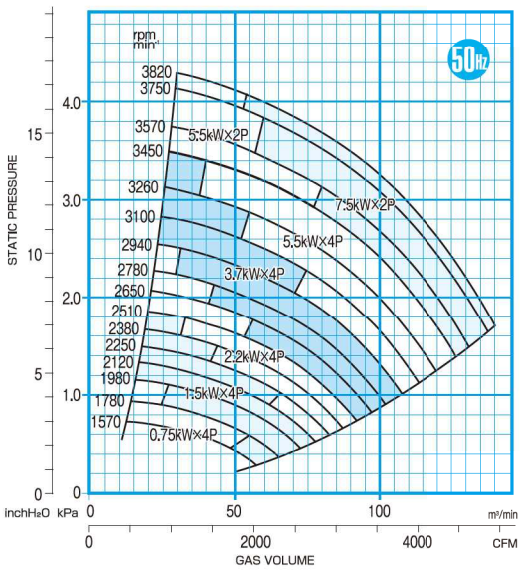


SOUND LEVEL

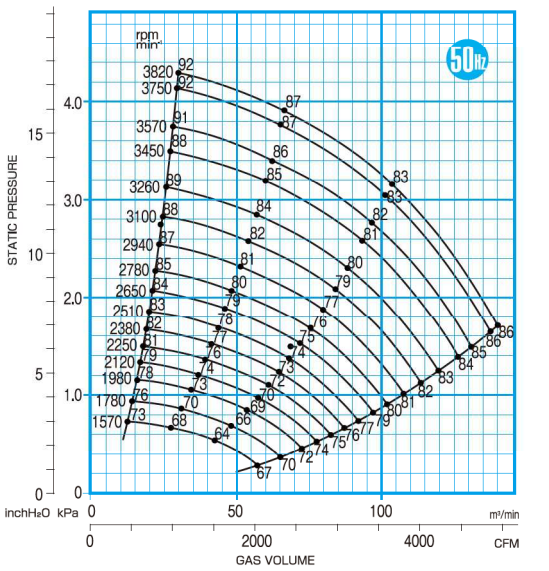


FTE251

CAPACITY RANGE CHART

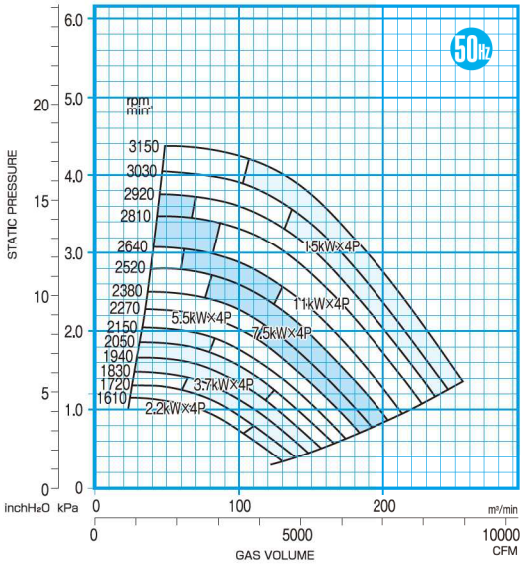


SOUND LEVEL



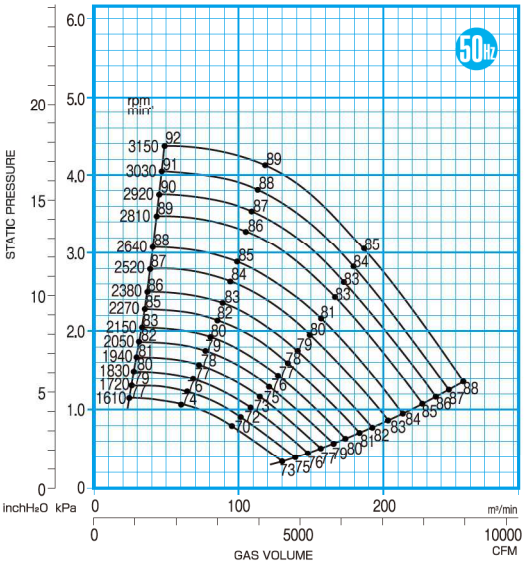
FTE301

CAPACITY RANGE CHART



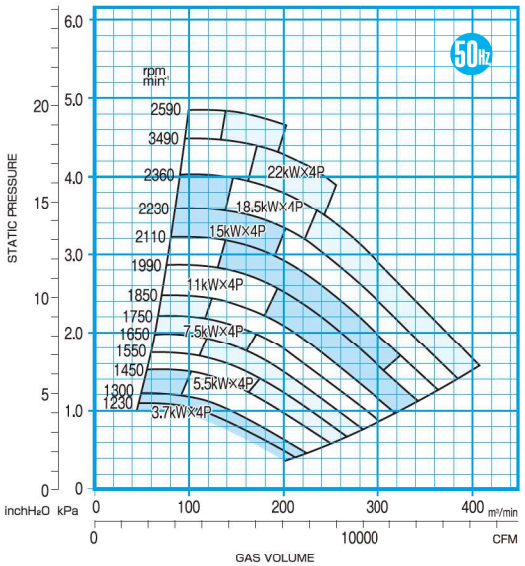
SOUND LEVEL

dB(A)



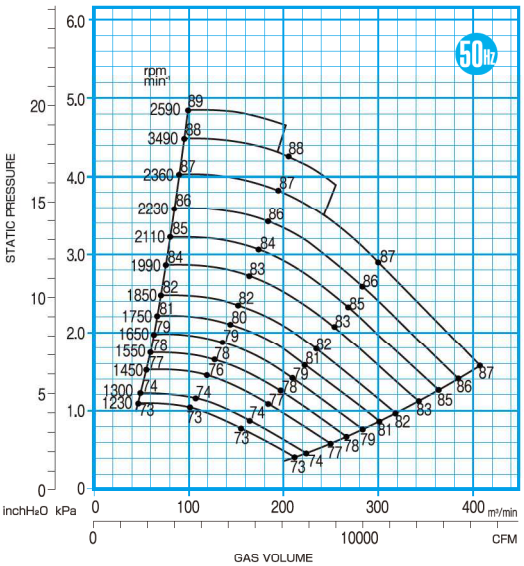
FTE401

CAPACITY RANGE CHART



SOUND LEVEL

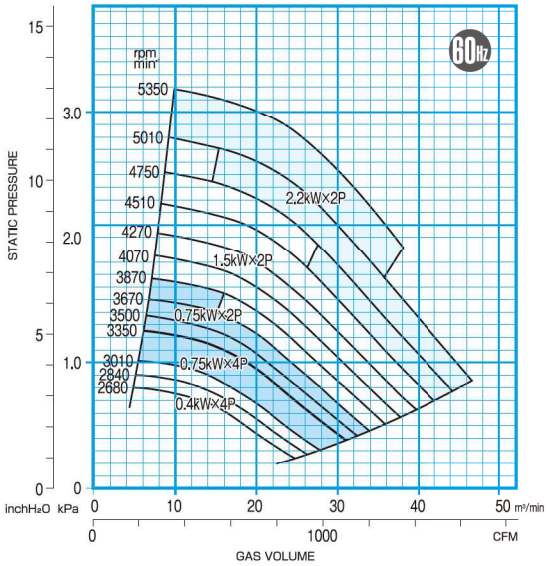
dB(A)



FTE 60Hz CAPACITY RANGE CHART

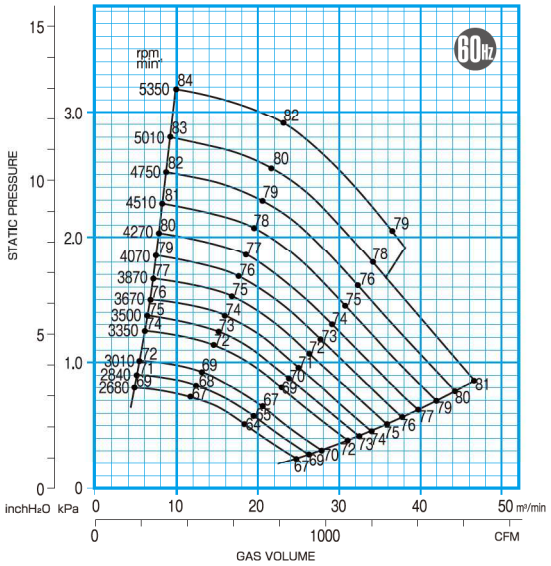
FTE151

CAPACITY RANGE CHART



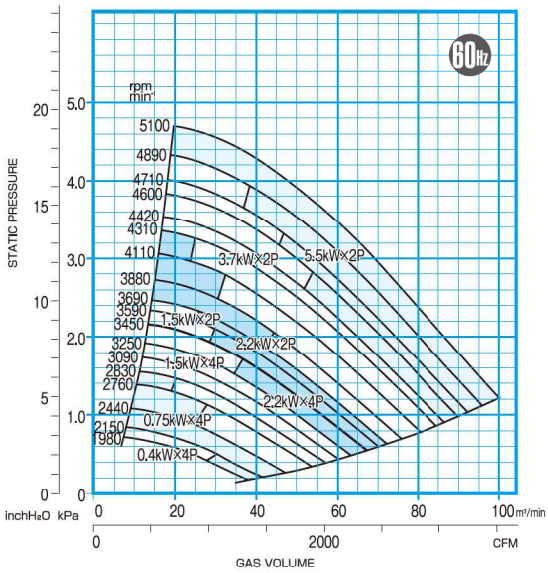
SOUND LEVEL

dB(A)



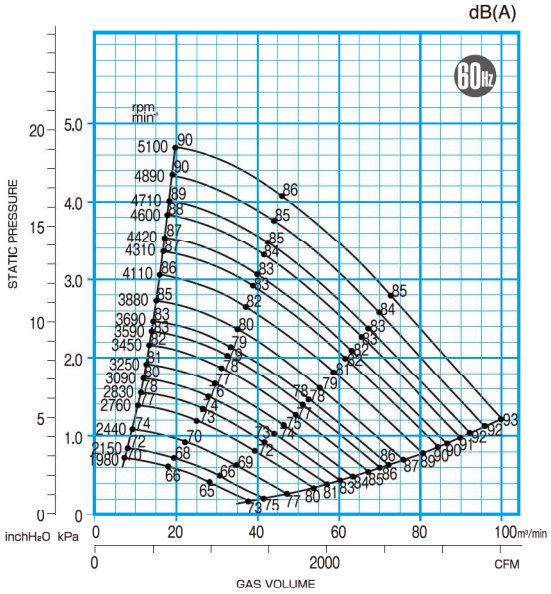
FTE201

CAPACITY RANGE CHART



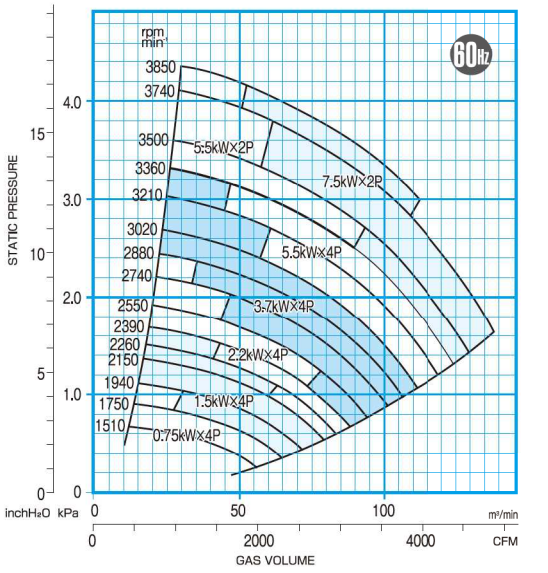
SOUND LEVEL

dB(A)



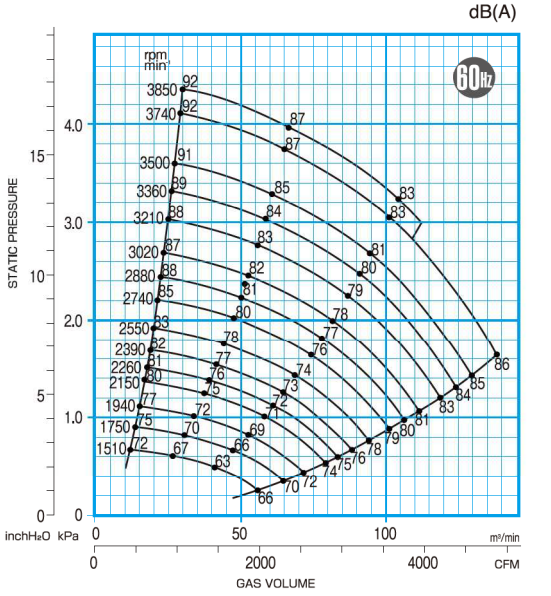
FTE251

CAPACITY RANGE CHART



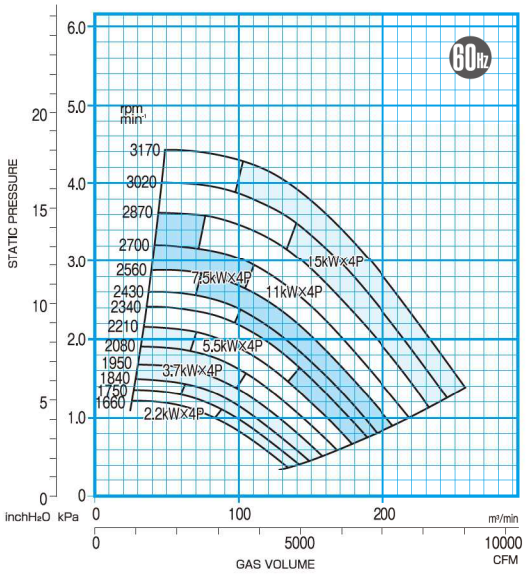
SOUND LEVEL

dB(A)



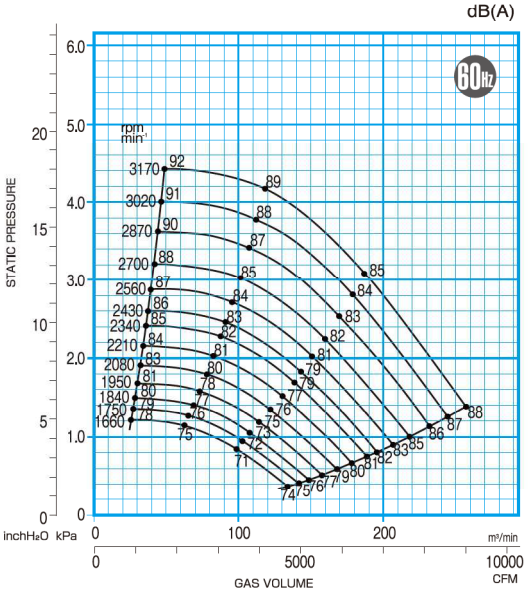
FTE301

CAPACITY RANGE CHART



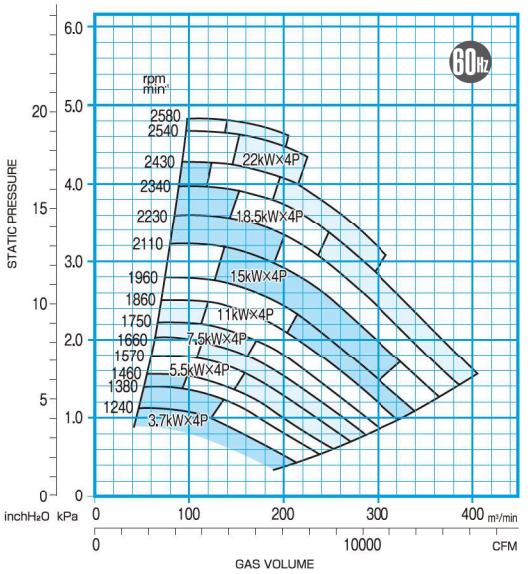
SOUND LEVEL

dB(A)



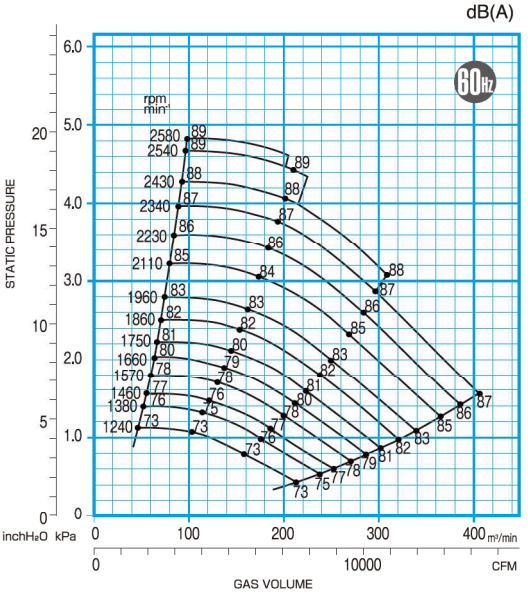
FTE401

CAPACITY RANGE CHART



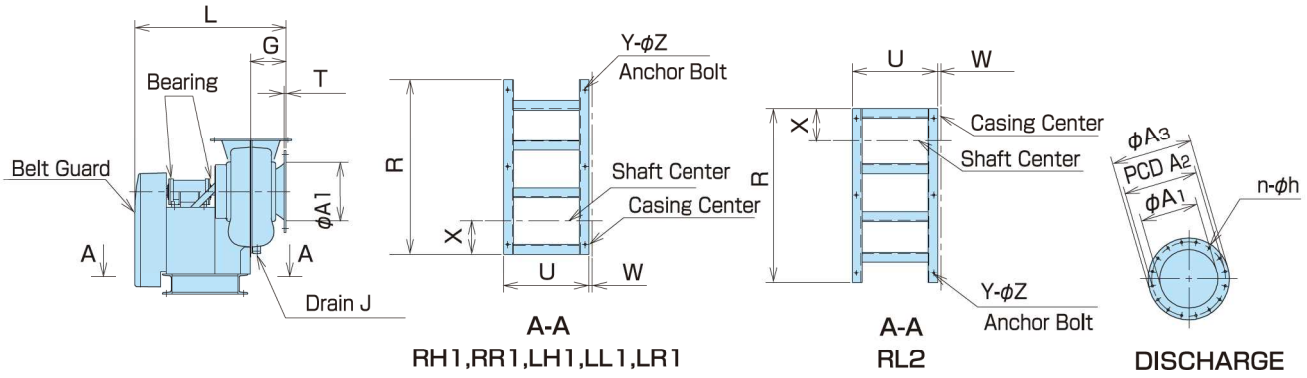
SOUND LEVEL

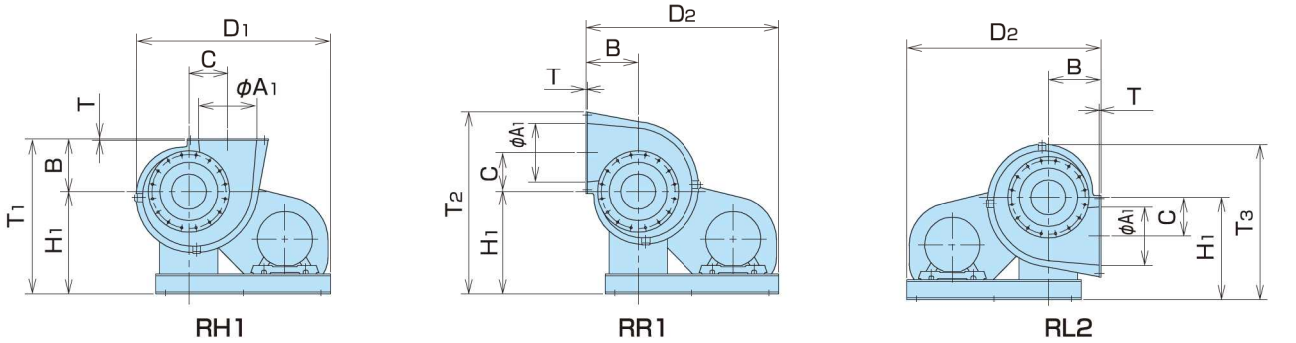
dB(A)

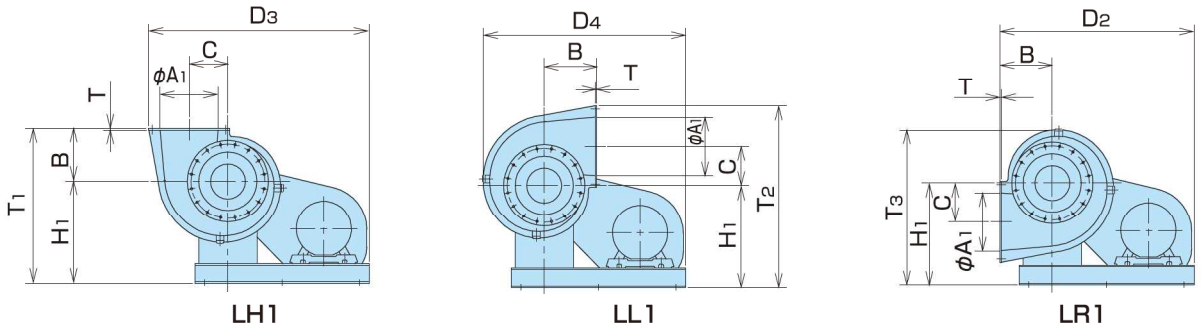


DIMENSIONS

FTF153·203·253/FTE151·201·251





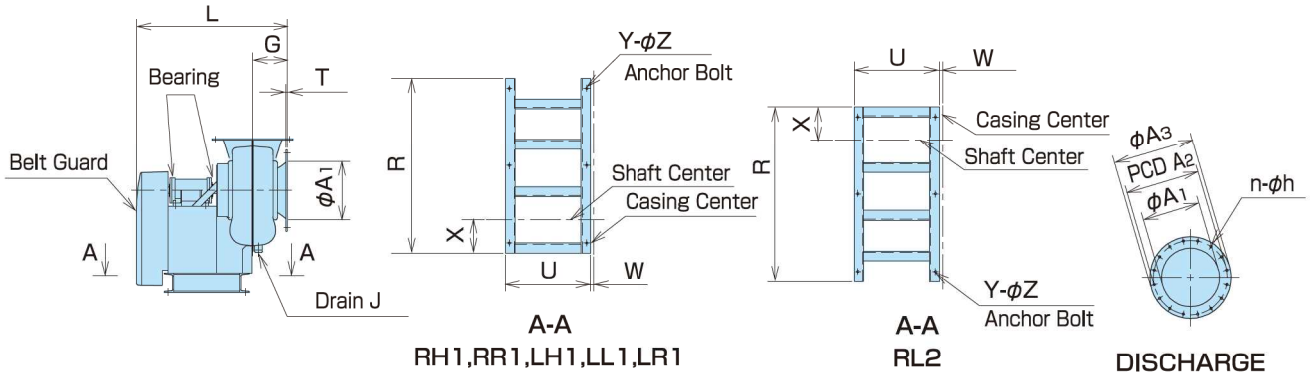


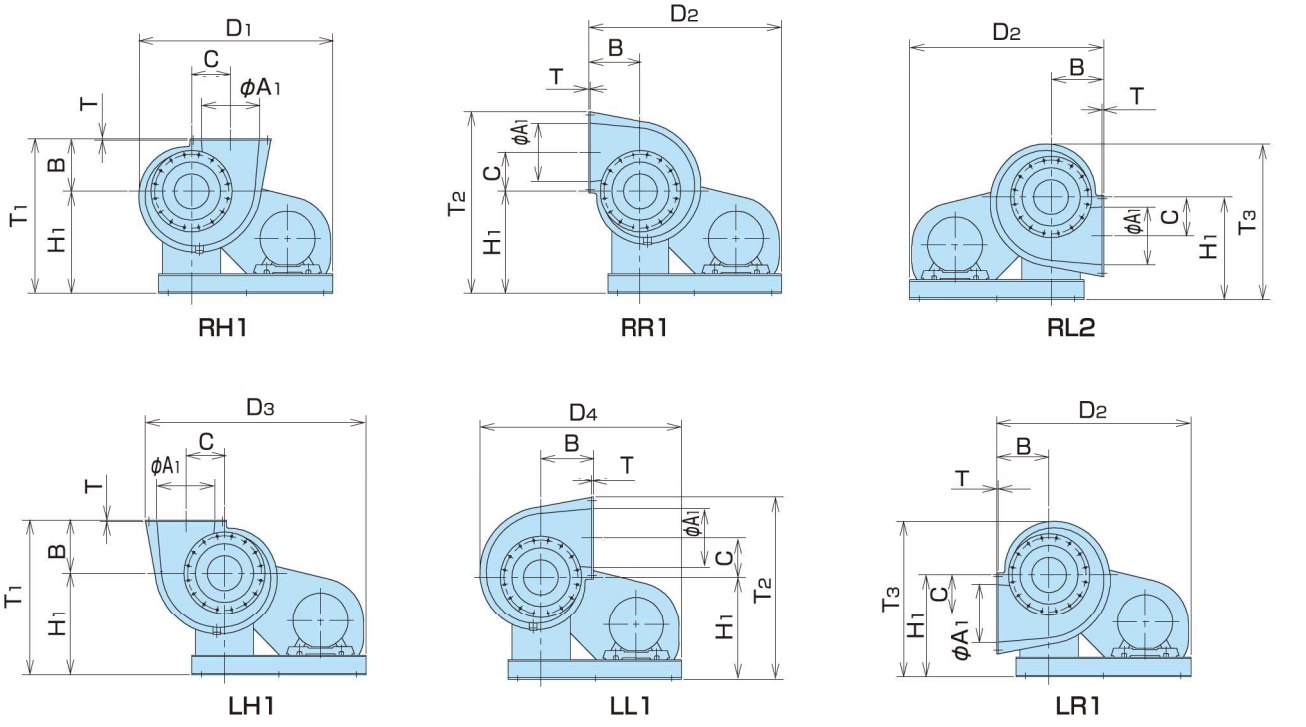
MODEL		CASING BODY												FLANGES					
		L	H1	B	C	D1	D2	D3	D4	T1	T2	T3	G	ϕA1	PCD A2	ϕA3	n	h	T
FTF153	FTE151	595	400	200	150	819	800	906	852	600	706	619	135	225	264	297	12	10	6
FTF203	FTE201	780	525	270	200	1013	1000	1145	1056	795	940	808	180	300	382	419	16	12	8
FTF253	FTE251	855	600	340	250	1237	1235	1411	1291	940	1116	942	225	375	482	521	20	14	8

MODEL		DRAIN	BASE						BODY WEIGHT(Kg)	BEARING	
		J	R	U	W	X	Y	Z	STANDARD	IMPELLER	PULLEY
FTF153	FTE151	PF3/4"	740	325	26	140	6	12	58	6306	6305
FTF203	FTE201	PF3/4"	900	440	17	170	6	12	95	6308	6307
FTF253	FTE251	PF3/4"	1100	460	20	205	6	14	118	6308	6307

※BODY WEIGHT : Not Including Motor Weight.

FTF303·403/FTE301·401



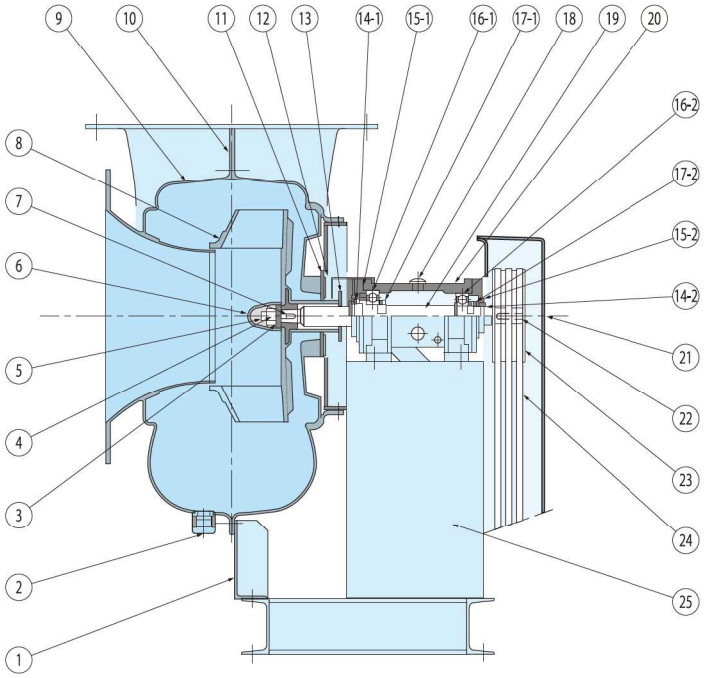


MODEL		CASING BODY												FLANGES					
		L	H1	B	C	D1	D2	D3	D4	T1	T2	T3	G	ϕA1	PCD A2	ϕA3	n	h	T
FTF303	FTE301	1056	725	400	300	1481	1450	1646	1542	1125	1321	1131	326	450	540	591	24	14	10
FTF403	FTE401	1230	850	530	400	1800	1740	1960	1920	1380	1600	1381	380	600	660	700	28	14	10

MODEL		DRAIN	BASE						BODY WEIGHT(Kg)	BEARING	
		J	R	U	W	X	Y	Z	STANDARD	IMPELLER	PULLEY
FTF303	FTE301	PF3/4"	1300	560	5	250	6	14	180	6310	6308
FTF403	FTE401	PF3/4"	1500	640	14	290	6	18	260	6312	6310

※BODY WEIGHT : Not Including Motor Weight.

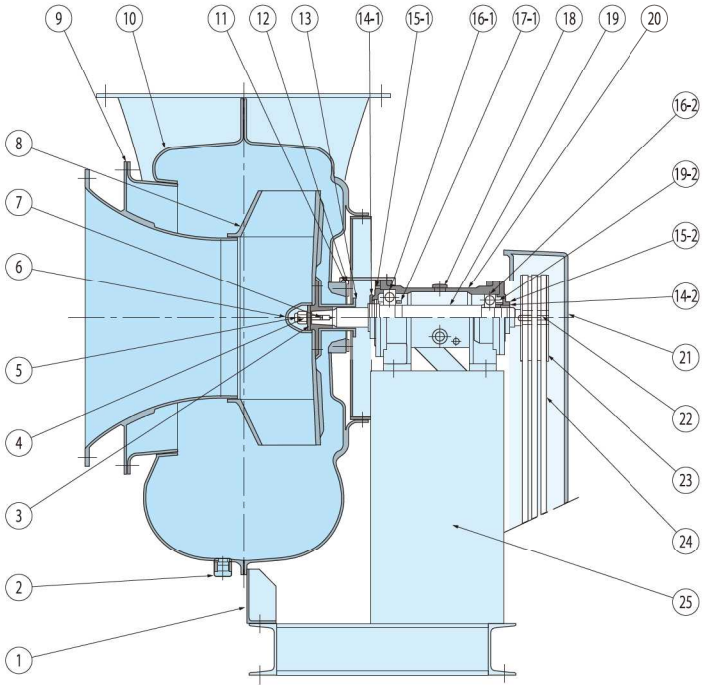
FTF153·203·253/FTE151·201·251



No.	NAME OF PART	MATERIALS	QTY	
1	Casing Support	FRP	1	*No Casing Support for model FTF153.
2	Drain Plug	FRP	2	
3	Impeller Washer	SS400	1	
4	Impeller Nut	S25C	1	
5	Split Pin	SWRM6	1	
6	Nut Cover	FRP	1	
7	Impeller Key	S45C	1	
8	Impeller	FRP	1	
9	Casing	FRP	1	
10	Casing Gasket	EPT	1	
11	Seal Plate	PE	1	
12	Gland	FRP	1	
13	Gas Separator	HTPVC	1	
14-1	V-Ring (Front)	NBR	1	
14-2	V-Ring (Rear)	NBR	1	
15-1	Bearing Cover(Front)	FC200	1	
15-2	Bearing Cover (Rear)	FC200	1	
16-1	Bearing(Front)	SUJ2	1	
16-2	Bearing (Rear)	SUJ2	1	
17-1	Adapter Nut & Washer (Front)	SS400	1set	
17-2	Adapter Nut & Washer (Rear)	SS400	1set	
18	Oil Supply Plug	PP	1	
19	Shaft	S35C	1	
20	Bearing Housing	FCD450	1	
21	Belt Guard	FRP	1	
22	V-Pulley Key	S45C	1	
23	V-Pulley	—	1set	
24	V-Belt	—	1set	
25	Bracket	SS400	1	

Note: No drain plug on RL and LR types. Number of belts may vary from that shown in this drawing.

FTF303·403/FTE301·401



No.	NAME OF PART	MATERIALS	QTY	
1	Casing Support	FRP	1	
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3	Impeller Washer	SS400	1	
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7	Impeller Key	S45C	1	
8	Impeller	FRP	1	
9	Casing	FRP	1	
10	Casing Gasket	EPT	1	
11	Seal Plate	PE	1	
12	Gland	FRP	1	
13	Gas Separator	HTPVC	1	
14-1	V-Ring (Front)	NBR	1	
14-2	V-Ring (Rear)	NBR	1	
15-1	Bearing Cover(Front)	FC200	1	
15-2	Bearing Cover (Rear)	FC200	1	
16-1	Bearing(Front)	SUJ2	1	
16-2	Bearing (Rear)	SUJ2	1	
17-1	Adapter Nut & Washer (Front)	SS400	1set	
17-2	Adapter Nut & Washer (Rear)	SS400	1set	
18	Oil Supply Plug	PP	1	
19	Shaft	S35C	1	
20	Bearing Housing	FCD450	1	
21	Belt Guard	FRP	1	
22	V-Pulley Key	S45C	1	
23	V-Pulley	—	1set	
24	V-Belt	—	1set	
25	Bracket	SS400	1	

Note: No drain plug on RL and LR types. Number of belts may vary from that shown in this drawing.