

Line fans

ALFII/ALF

TERAL



50Hz



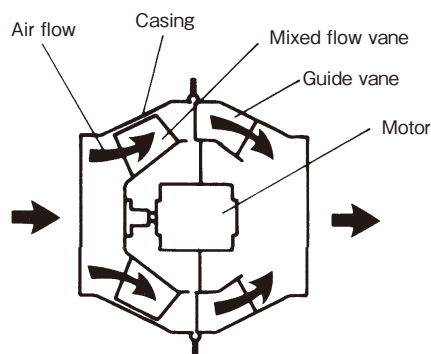
TERAL INC.

■ Applications

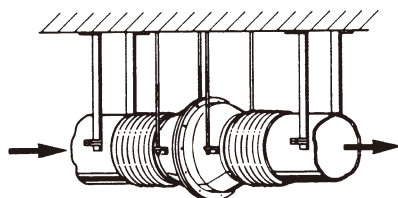
Air supply/exhaust for buildings, condominiums, hotels, hospitals, restaurants, and restrooms; air supply/exhaust and air-conditioning of factories; air blow/exhaust for various devices

■ Features

- ① Energy-saving fan equipped with a Top Runner efficiency (equivalent to IE3) motor. (Except for 0.35kW or less)
- ② Noise is further reduced by ideal fluid structure and diagonal-flow vanes.



- ③ Best-suited for duct ventilation
Best-suited for duct ventilation due to high static pressure while being compact. Operating costs can also be reduced by individual exhaust.
- ④ Easily and directly installable in the middle of duct, and does not require large installation space compared with centrifugal fans.



- ⑤ Limit-load characteristics
Horsepower will not be exceeded even if pipeline resistance changes due to limit-load characteristics

■ Model type description

ALF - No.3 - 5 28 S

① ② ③ ④ ⑤ ⑥

- ① S-line fan
- ② Fan number
- ③ Frequency (50Hz)
- ④ Output (280W)
- ⑤ S ... (single-phase power supply)
None ... (3-phase power supply)
- ⑥ Motor efficiency
None: standard efficiency (equivalent to IE1)
e: Top Runner efficiency (equivalent to IE3)



ALFII-M



ALF No.2, No.3



ALF No.4



ALF No.6, No.7

* Please note that the paint color, etc. of the actual unit may slightly differ from the photo.

Standard/special specifications and standard/special accessories

● Standard specifications, ◎ Special specifications, - Unsupported

Model			ALFII-15M, 20M	ALF-No.2	ALF-No.3	ALF-No.4	ALF-No.6, No.7
Gas handled	Clean air (temperature: 0-40°C, relative humidity: 85% or less, non-condensing.)		●	●	●	●	●
Installation location	Indoors(temperature: 0-40°C, relative humidity: 85% or less, non-condensing.)		●	●	●	●	●
Structure (inside)	Impeller	Diagonal flow	●	●	●	●	●
	Bearing	Deep groove ball bearing	● *1	●	●	●	●
Structure (outside)	Drain		●	●	●	●	◎
	Terminal box	For indoor use	—	◎	◎	◎	●
		For outdoor use	—	—	—	—	◎
	Sound-muffling box included		*2	*2	*2	*2	◎
Material	Casing		SPCC	SPCC	SPCC	SPCC	SPHC, SPCC
	Impeller		A1050P	SPCC, SS400	SPCC, FC200	SPCC, FC200	SPCC, FC200
Installation method	Floor type		—	—	—	●	●
	Ceiling-suspension type		●	●	●	●	●
	Vertical type	Bottom suction, top discharge	—	●	●	● *3	● *3
		Top suction, bottom discharge	—	◎	◎	◎ *3	◎ *3
	Vertical bracket mounted	Bottom suction, top discharge	—	—	◎	◎	◎
		Top suction, bottom discharge	—	—	◎	◎	◎
	Anti-vibration floor type (D)		—	—	—	—	◎
	Anti-vibration floor type (with earthquake-resistant stopper bolt)(ND)		—	—	—	—	◎
	Anti-vibration ceiling-suspension type (I)		—	—	—	—	◎
	Anti-vibration ceiling-suspension type (with earthquake-resistant stopper bolt)(KI)		—	—	—	—	◎
Motor	Totally-enclosed type		●	●	●	●	●
	Efficiency	Standard efficiency (equivalent to IE1)	●	●	●	●	—
		Top Runner efficiency (equivalent to IE3)	—	—	—	●	●
	Starting method	Direct-on-line start	●	●	●	●	● *4
		Single-phase, 100V	●	●	●	●	—
	Voltage	3-phase, 200V	—	—	●	●	●
		Single-phase, 110V	—	—	◎	—	—
		Single-phase, 120V	—	◎	◎	—	—
		Single-phase, 200V	—	◎ *5	◎	—	—
	Different voltage	3-phase, 380V/400V/415V/440	—	—	◎ *6	◎ *6	—
Coating	Melamine resin coating 7.5BG5/1.5		—	●	●	●	—
	Melamine resin coating 7.5B5/10		●	—	—	—	—
	Priming and inner surface ... Rust-preventing coating		—	—	—	—	●
	Outer surface overcoating ... Acrylated alkyd resin coating 7.5BG5/1.5		—	—	—	—	—
	Epoxy coating		—	◎	◎	◎	◎
	PVC coating		—	◎	◎	◎	◎
	Coating against salt damage		—	◎	◎	◎	◎
Accessories	Coating color designation		—	◎	◎	◎	◎
	Companion flange	Inlet side *7	—	—	—	●	●
		Discharge side *7	—	—	—	●	●
	Expansion joint		—	◎	◎	◎	◎
	Suction wire mesh		—	—	—	◎	◎
	Manual damper	Inlet side	—	—	—	◎	◎
		Discharge side	—	—	—	◎	◎

*1 : Oil-impregnated sintered bearing for ALFII-15M.

*2 : A silencer box is available as a standard variation (ALFII-U model, ALF-UI model).

*3 : The installation method shall be flange-mounted.

*4 : Direct-on-line start or star-delta start for ALF-No.7-5300-e model.

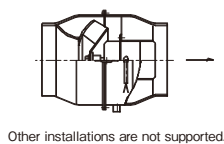
*5 : Available for 40W only.

*6 : 440V is available for 0.25kW to 0.35kW only.

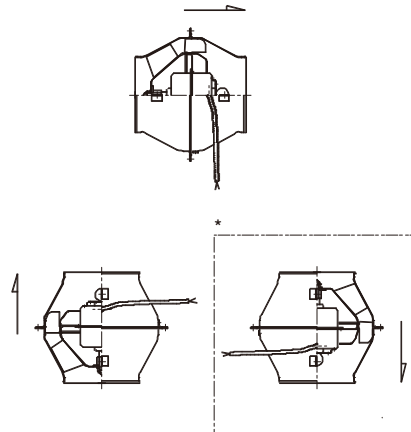
*7 : The companion flange is temporarily fixed to the fan body when shipping. (The complete number of fixing bolts may not always be mounted.)

Installable form

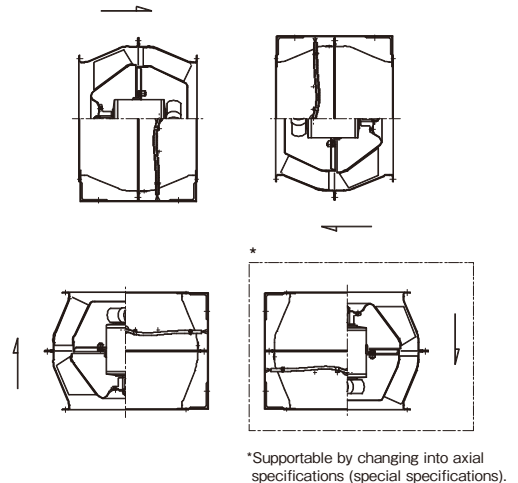
●ALFII-15M, 20M



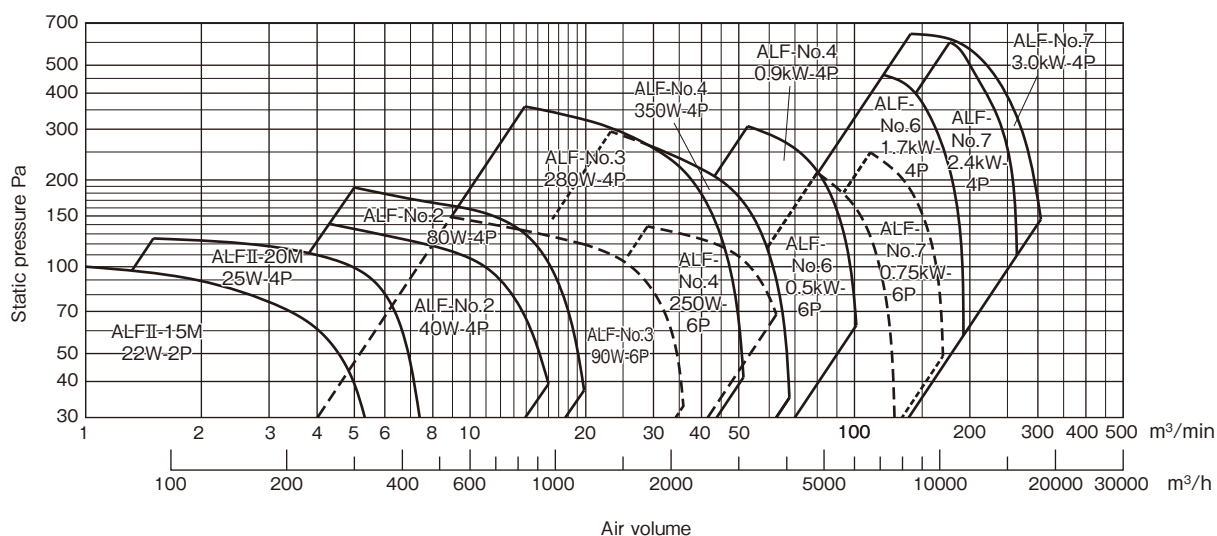
●ALF-No.2, 3



●ALF-No.4, 6, 7



■ Selection chart

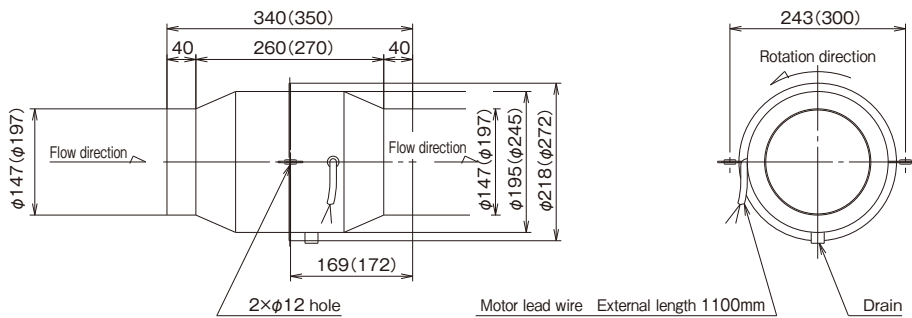


■ Specifications table

Model	Motor								Air volume (m³/min)	Static pressure (Pa)	Approx. mass (kg)
	Rated power consumption	Rated output	No. of poles (P)	Phase and voltage	Rated current (A)	Starting current (A)	Rotation speed (min⁻¹)	Type			
ALFII-15M	45W	22W	2	Single-phase, 100V	0.5	0.74	2000	Totally enclosed capacitor induction motor	1.5~5.5	93~25	3.5
ALFII-20M	60W	25W	4	Single-phase, 100V	0.75	2.3	1460	Totally enclosed capacitor induction motor	2~7.5	123~34	5.3
ALF-No.2-504S	71W	40W	4	Single-phase, 100V	0.8	1.33	1260	Totally enclosed capacitor induction motor	4.5~16	137~39	9
ALF-No.2-508S	101W	80W	4	Single-phase, 100V	1.5	4.43	1450	Totally enclosed capacitor induction motor	5~19	177~49	9
ALF-No.3-509S	201W	95W	6	Single-phase, 100V	2.7	5.75	950	Totally enclosed capacitor induction motor	10~35	140~40	19
ALF-No.3-509	0.133kW	0.09kW	6	3-phase, 200V	0.7	2.5	940	Totally enclosed 3-phase induction motor	10~35	140~40	19
ALF-No.3-528S	370W	280W	4	Single-phase, 100V	4.3	13	1430	Totally enclosed capacitor induction motor	14~51	343~42	22
ALF-No.3-528	0.35kW	0.28kW	4	3-phase, 200V	1.6	6.3	1430	Totally enclosed 3-phase induction motor	14~51	343~42	19
ALF-No.4-525S	420W	250W	6	Single-phase, 100V	5.8	18	940	Totally enclosed capacitor induction motor	29~62	138~68	37
ALF-No.4-525	0.35kW	0.25kW	6	3-phase, 200V	1.7	9	940	Totally enclosed 3-phase induction motor	29~62	138~68	37
ALF-No.4-535S	530W	350W	4	Single-phase, 100V	5.9	25	1420	Totally enclosed capacitor induction motor	23~67	294~35	37
ALF-No.4-535	0.45kW	0.35kW	4	3-phase, 200V	2.1	11	1420	Totally enclosed 3-phase induction motor	23~67	294~35	35
ALF-No.4-590-e	1.1kW	0.9kW	4	3-phase, 200V	4.9	42	1460	Totally enclosed 3-phase induction motor	53~101	307~63	44
ALF-No.6-550-e	0.63kW	0.5kW	6	3-phase, 200V	3.4	24.4	975	Totally enclosed 3-phase induction motor	80~127	210~29	95
ALF-No.6-5170-e	1.9kW	1.7kW	4	3-phase, 200V	8.8	114	1480	Totally enclosed 3-phase induction motor	118~192	455~62	110
ALF-No.7-575-e	0.88kW	0.75kW	6	3-phase, 200V	4.8	46.8	980	Totally enclosed 3-phase induction motor	110~170	250~50	130
ALF-No.7-5240-e	2.7kW	2.4kW	4	3-phase, 200V	12.6	141	1475	Totally enclosed 3-phase induction motor	172~263	602~119	135
ALF-No.7-5300-e	3.4kW	3.0kW	4	3-phase, 200V	16.8	200	1480	Totally enclosed 3-phase induction motor	140~304	642~155	155

Assembly drawing

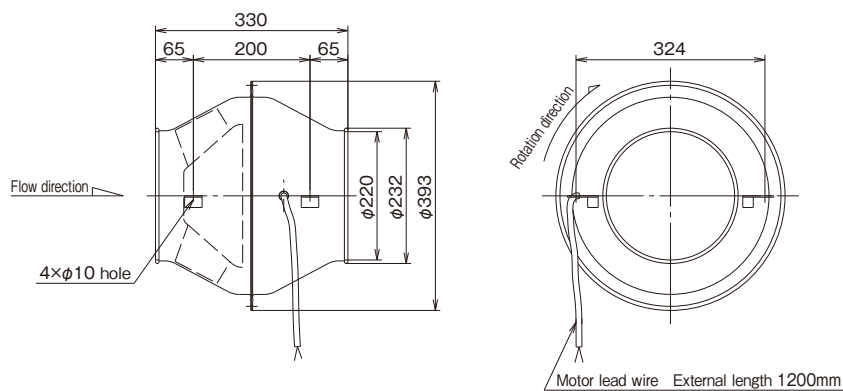
ALFII-15M·20M



Model	Motor bearing	
	Load side	Unload side
ALFII-15M	Oilless metal	Oilless metal
ALFII-20M	6200ZZ	6200ZZ

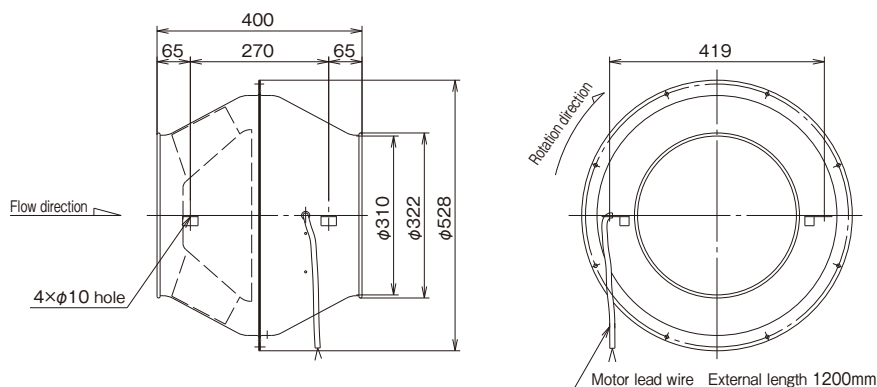
* Values in brackets are for ALF II -20M.

ALF-No.2



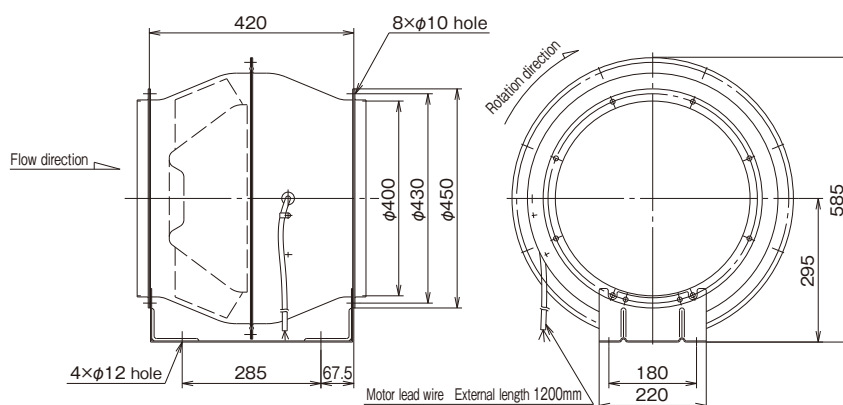
Model	Motor bearing	
	Load side	Unload side
504S	6202VV	6202VV
508S	6202VV	6202VV

ALF-No.3



Model	Motor bearing	
	Load side	Unload side
509S	6203UU	6201UU
509	6202ZZCM	6202ZZCM
528S	6204ZZCM	6202ZZCM
528	6204ZZCM	6202ZZCM

ALF-No.4

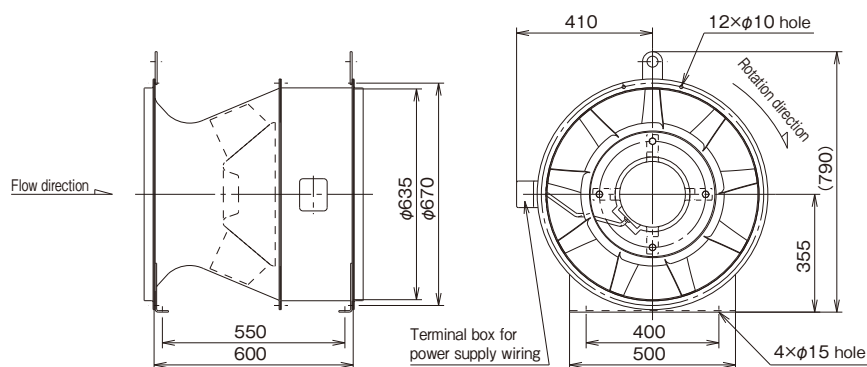


Model	Motor bearing	
	Load side	Unload side
525S	6204ZZCM	6204ZZCM
525	6204ZZCM	6204ZZCM
535S	6204ZZCM	6202ZZCM
535	6204ZZCM	6202ZZCM
590-e	6205ZZC3	6304ZZC3

* For No. 4, a companion flange is attached as a standard.

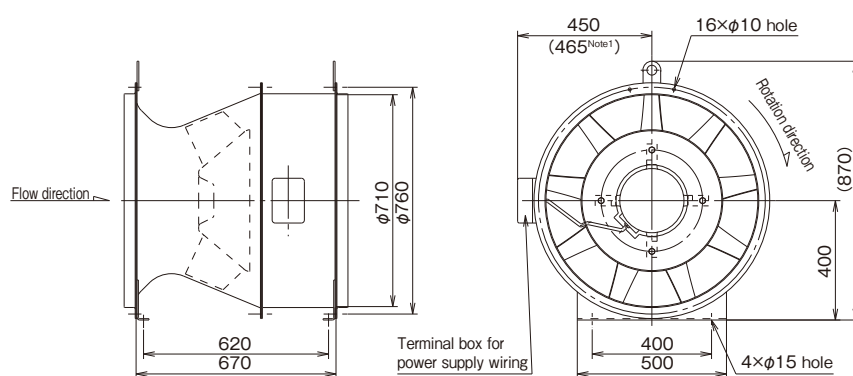
Assembly drawing

ALF-No.6



Model	Motor bearing	
	Load side	Unload side
550-e	AC6206ZZC3	AC6205ZZC3
5170-e	AC6306ZZC3	AC6206ZZC3

ALF-No.7



Model	Motor bearing	
	Load side	Unload side
575-e	AC6306ZZC3	AC6205ZZC3
5240-e	AC6306ZZC3	AC6206ZZC3
5300-e	AC6308ZZC3	AC6208ZZC3

Note 1: For ALF-No. 7-5300-e

Companion flange dimensional drawing

Fig.1

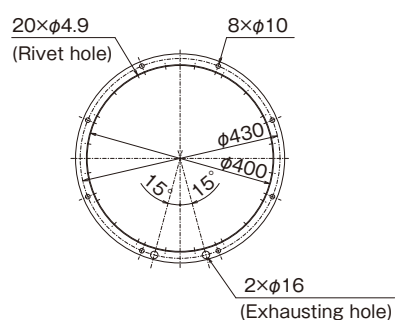
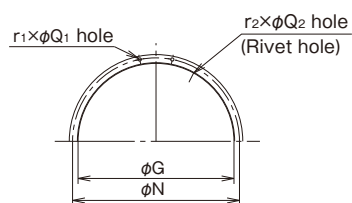


Fig.2

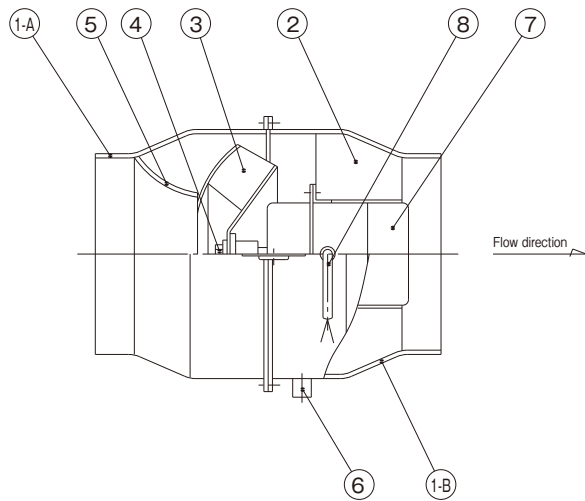


(Unit: mm)

No.	G	N	$r_1 \times Q_1$	$r_2 \times Q_2$ (Rivet hole)	Steel size	Figure number
4	Refer to the figures				L25×25×1.6	1
6	635	670	12×10	32×4.9	L30×30×3	2
7	710	760	16×10	36×4.9	L40×40×3	

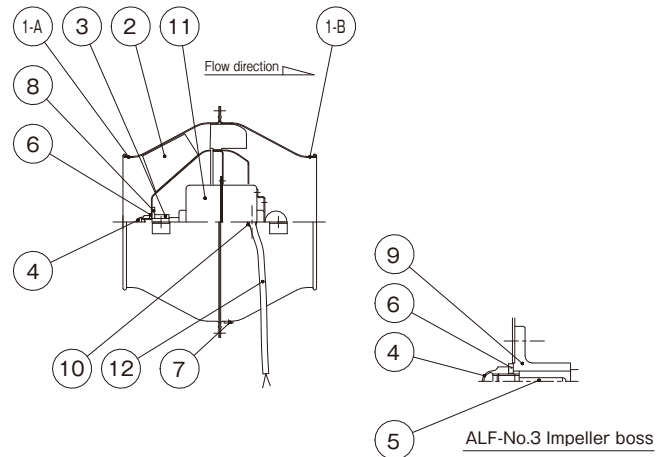
Example of sectional drawing

●ALF-II-15M/20M



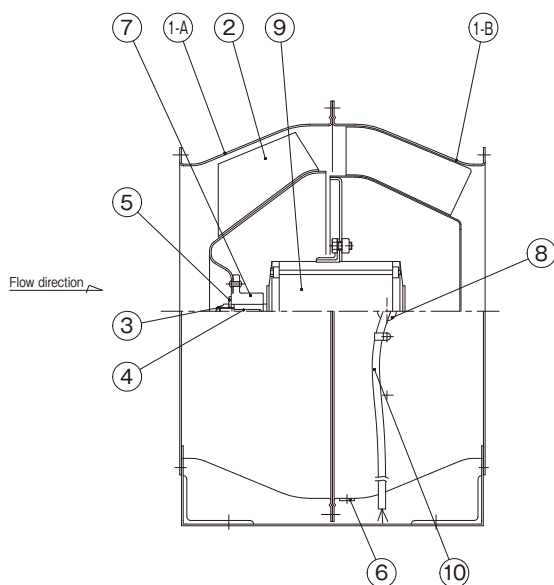
No.	Part name	Qty	Material
1-A	Casing A	1	SPCC
1-B	Casing B	1	SPCC
2	Guide vane	1	SPCC
3	Impeller	1	A1050P
4	Impeller retaining nut	1	SS400
5	Suction bell mouth	1	SPCC
6	Drain	1	SPCC
7	Motor	1	—
8	Motor lead wire	1	—

●ALF-No.2, 3



No.	Part name	Qty	Material
1-A	Casing A	1	SPCC
1-B	Casing B	1	SPCC
2	Impeller	1	SPCC
3	Spacer	1	SS400
4	Impeller retaining nut	1	SWRM
5	Key	1	S45C
6	Impeller retaining washer	1	SS400
7	Cap	1	NR
8	Impeller boss	1	SS400
9	Impeller boss	1	FC200
10	Grommet	1	NR
11	Motor	1	—
12	Motor lead wire	1	—

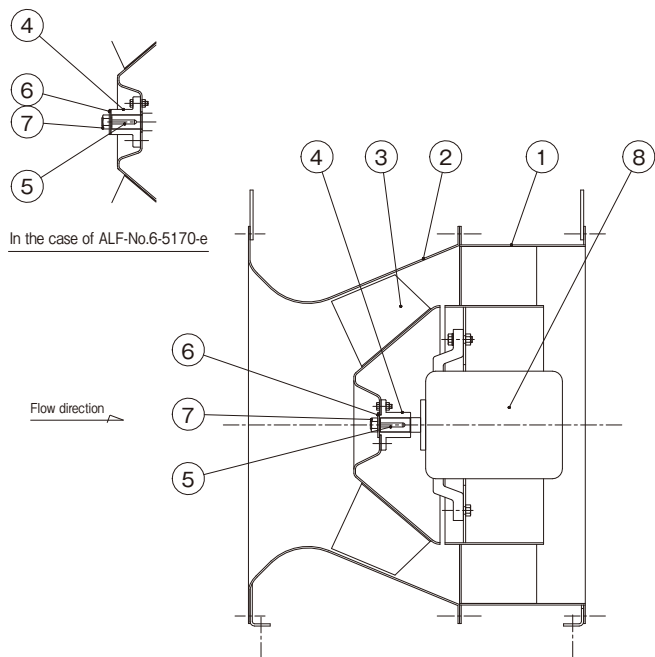
●ALF-No.4



No.	Part name	Qty	Material
1-A	Casing A	1	SPCC
1-B	Casing B	1	SPCC
2	Impeller	1	SPCC
3	Impeller retaining nut	1	SWRM
4	Key	1	S45C
5	Impeller retaining washer	1	SS400
6	Cap	1	NR
7	Impeller boss	1	FC200
8	Grommet	1	NR
9	Motor	1	—
10	Motor lead wire	1	—

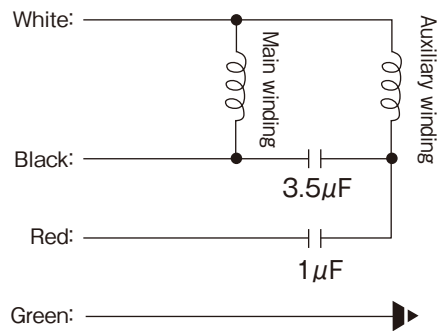
Example of sectional drawing

●ALF-II-6, 7

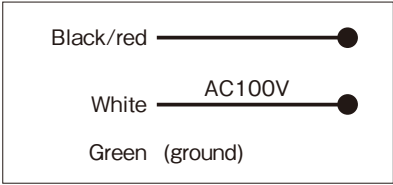


No.	Part name	Qty	Material
1	Casing	1	SPHC · SPCC
2	Suction casing	1	SPHC · SPHE
3	Impeller	1	SPHE · SPCC
4	Impeller hub	1	FC200
5	Impeller key	1	S45C
6	Impeller retaining washer	1	SPHC
7	Impeller retaining nut	1	SWCH
8	Motor	1	—

ALFII-20M wiring diagram



Connection method



This image shows a full page of a handwriting practice worksheet. It consists of multiple rows of horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.

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