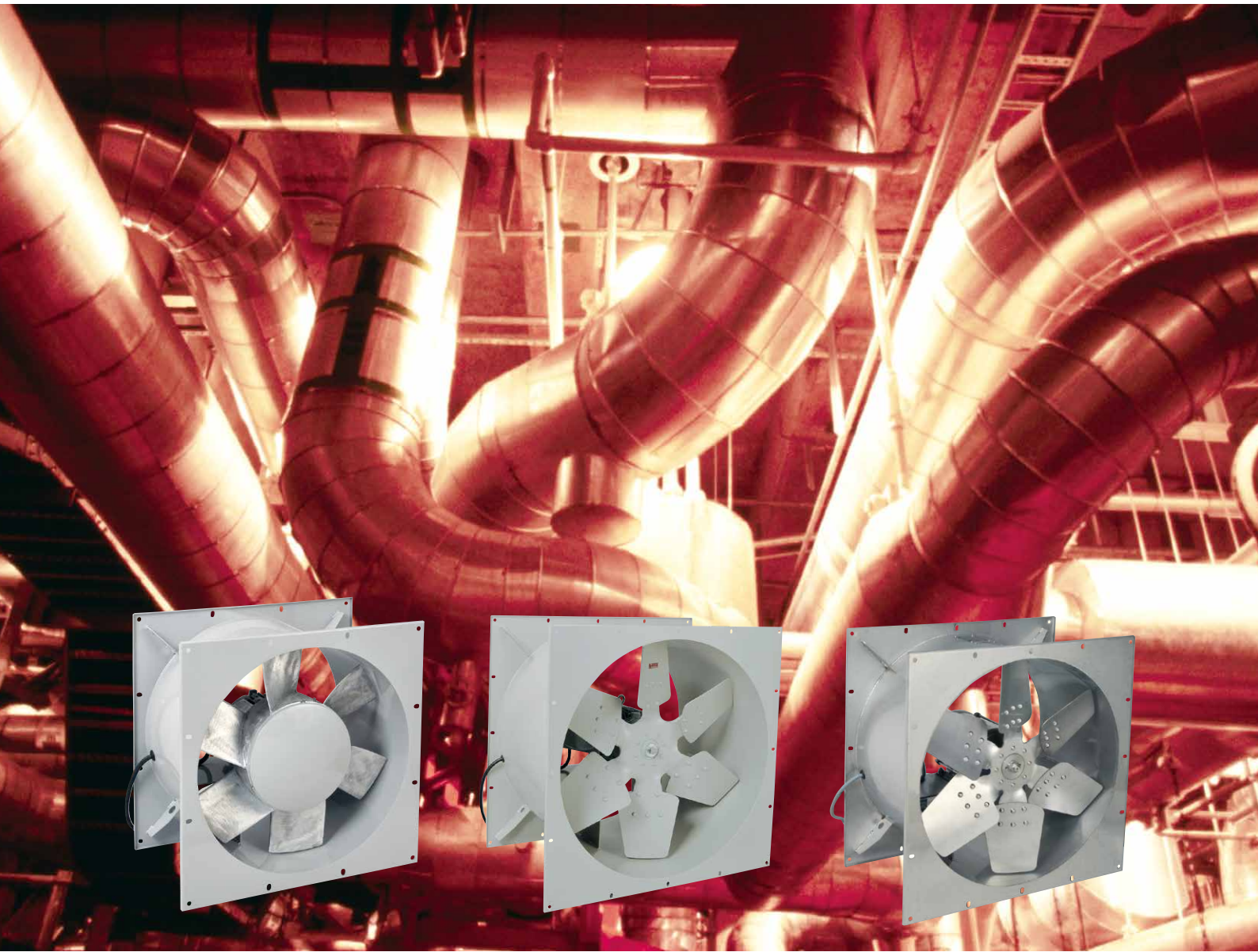


Axial Flow Fan

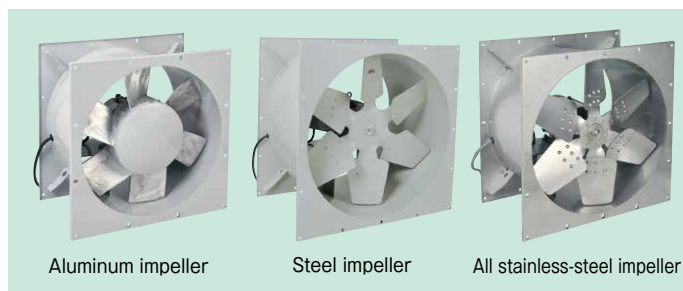
TERAL



TERAL INC.

Applications

- **General air conditioning** . . . For cooling and heating, air conditioning and ventilation
- **Freezing and refrigeration** . . . For blowing, exhausting, and agitating cold air in freezers and refrigerators
- **Drying** For drying wood, tobacco, laver, fish, grain, grass, rush, shiitake mushrooms, etc.
- **Equipment cooling** For cooling and exhausting heat from dust collectors, transformers, rotating machines, power generators, etc.



* Keep in mind that the above show typical examples, and may partially differ from actual devices.

Features

1 Adoption of high efficiency motor

Standard specifications include a top runner motor (equivalent to IE3). **We added a lineup equipped with PM motor (permanent magnet motor equivalent to IE4).**

2 Adoption of high efficiency impeller

An impeller is one of the most important parts of a fan. The shape, cross-section, curvature, number of blades, etc., are rationally designed based on airfoil theory to exert high-efficiency characteristics.

3 Compact, lightweight, and shaped to facilitate installation in ducts

Installation in ducts is facilitated by square-shaped mounting flanges.

4 Direct driven type with little power loss

The impeller is directly connected to the motor shaft and power loss is low.

5 Extensive lineup

Standard products are available in a blade diameter range of 400 to 1000mm, and larger sizes can also be customized. Motors mounted are prepared for different atmosphere conditions.

Ambient temperature

	High-efficiency low-temperature specifications*	Low-temperature specifications	Standard specifications
Aluminum impeller	-50°C ~ -10°C	-50°C ~ -10°C	-10°C ~ +40°C
Steel impeller	-35°C ~ -10°C	-35°C ~ -10°C	-10°C ~ +40°C
Stainless steel impeller (AFS series)	-50°C ~ -10°C	-50°C ~ -10°C	-10°C ~ +40°C
All stainless steel impeller (AFSS series)	—	-50°C ~ -10°C	—

For low-temperature specifications, provide the working temperature range because motors, etc., are manufactured based on the special specifications.

Please contact us if you are considering a temperature range above 40°C or a product with an increased safety explosion-proof motor.

* Different voltages, special atmosphere conditions, OE marking are also available. (Contact us for details.)

* Ceiling suspension type, floor type, and round flange type are available as special specification. (Contact us for details)

★High-efficiency low-temperature specifications

High efficiency fan with PM motor (equivalent to IE4) equipped, while following the low temperature specification which can handle gas up to -50°C.



Mounting position

Standard position is horizontal.

The motor can be mounted by facing up or facing down as custom products. (Contact us for available models.)

■ Features of axial flow fan equipped with PM motor

● Comparison of AF-7S-P-E(new model) and AF-7S(conventional model)

Annual power consumption reduction (kWh/year)

= (Conventional model IE1(kW)) - New model IE4(kW) x operation time (h)

x Number of working days per year (day/year)

= (3097kW - 2.36kW) x 24h x 365 days

= Approx. 14,103 (kWh/year)

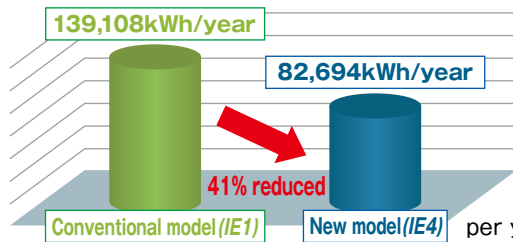
①Energy saving, reduction of annual power consumption
(41% reduction from standard products with low-temperature specification)

②With a dedicated driver

·Rotation speed can be adjusted.

·The product is available at 50/60 Hz regardless of region.

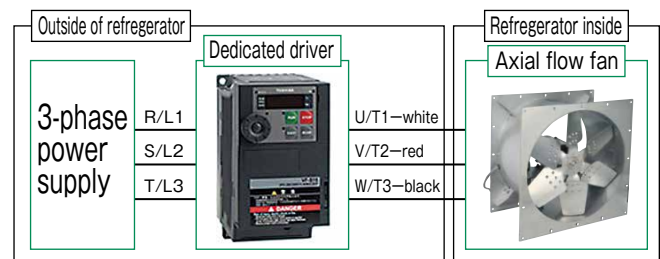
For example, in case of installing four axial flow fans to the unit cooler.



Electricity price: Low electricity price by TEPCO Energy Partner, Incorporated (Dec. 2017)

Notes for axial flow fan with PM motor

- Supply power to the axial flow fan via a dedicated driver.
Direct application of commercial power may cause malfunction.
- The driver is designed exclusively for our products and cannot be replaced with a commercially available general-purpose inverter.
- One dedicated driver cannot drive more fans than one.
- The dedicated driver cannot be installed inside the refrigerator. Install it in the control panel out of the refrigerator.



■ Description of types

AF - 50 S - 1 P - E

① ② ③ ④ ⑤

- ①Direct driven axial flow fan AF:Aluminum impeller, steel impeller (For indoor use)
WAF:Aluminum impeller, Resin impeller (for outdoor use)
AFS:Stainless steel impeller (A fan casing is also made of stainless steel.)
AFSS:Stainless steel impeller (A fan casing and a motor casing are also made of stainless steel.)
EAF:Equipped with explosion-proof motor (aluminum impeller)
- ②Impeller diameter Aluminum impeller 7:700mm *When the number changes by 1, the impeller diameter changes 50mm except for 2:400mm.
Steel and stainless steel impeller 50:500mm
S:Square R:Round
- ③Flange shape
- ④In-house number (model)
- ⑤Motor efficiency None:Standard efficiency(IE1)
-E:Top Runner efficiency(equivalent to IE3)
P-E:IE4 efficiency
-C-E:Top Runner efficiency low-temperature specifications (equivalent to IE3)

High-efficiency low-temperature specifications

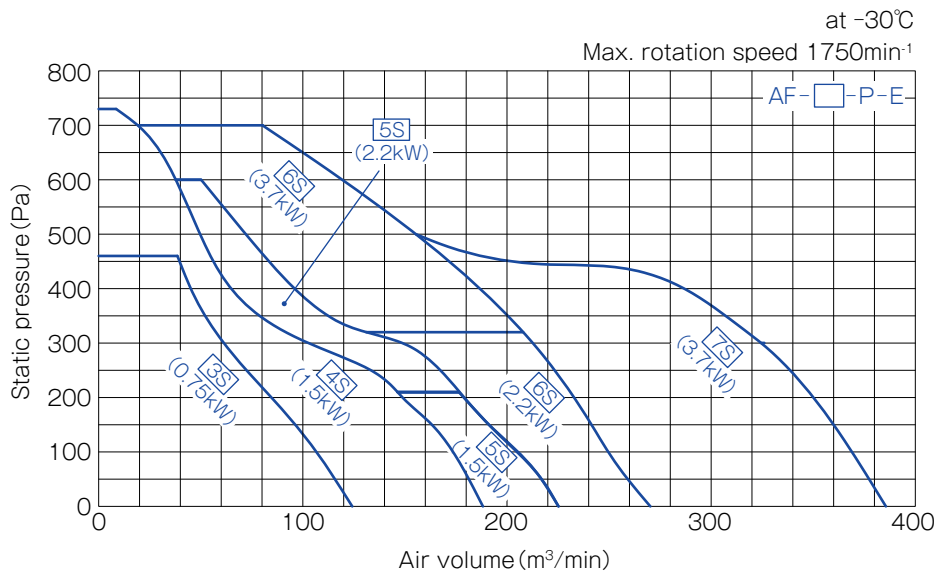
Specification table

Type	Fan diameter (mm)	Motor					Air volume (m³/min)	Static pressure (Pa)	Noise (dB(A))	Approx mass (kg)	
		Power source	Output (W)	Number of poles (P)	Frequency (Hz)	Allowable current (A)					
AL impeller	AF-3S-P-E	500	3φ200V	750	6	50/60	2.6	95	150	80	40
	AF-4S-P-E	550	3φ200V	1500	6	50/60	5.2	153	200	82	52
	AF-5S-P-E	600	3φ200V	1500	6	50/60	5.2	190	150	83	66
	AF-5S-P-E	600	3φ200V	2200	6	50/60	7.2	177	200	83	70
	AF-6S-P-E	650	3φ200V	2200	6	50/60	7.2	230	200	84	74
	AF-6S-P-E	650	3φ200V	3700	6	50/60	14.4	187	400	84	86
	AF-7S-P-E	700	3φ200V	3700	6	50/60	14.4	349	200	85	94

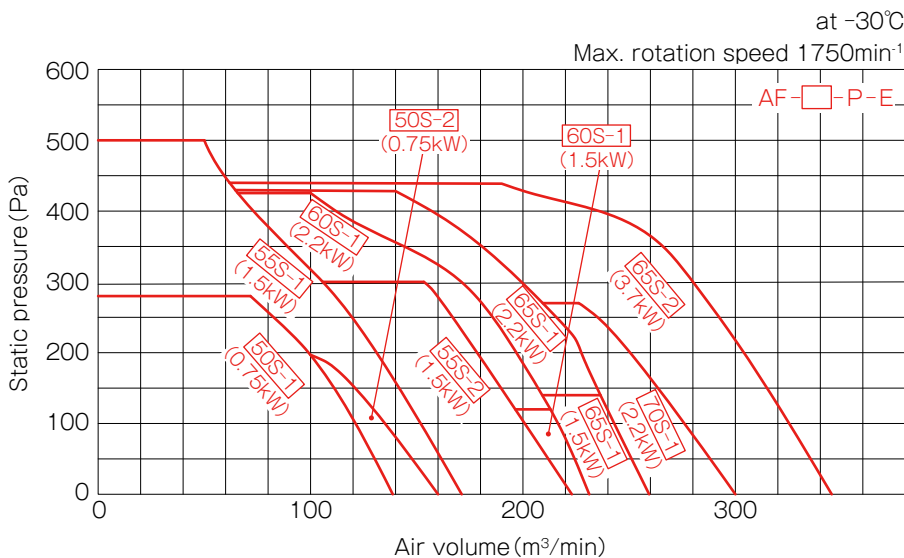
Type			Fan diameter (mm)	Motor					Air volume (m³/min)	Static pressure (Pa)	Noise (dB(A))	Approx. mass (kg)
				Power source	Output (W)	Number of poles (P)	Frequency (Hz)	Allowable current (A)				
Steel/SUS Impeller	AF/ AFS-50S	-1P-E	500	3φ200V	750	6	50/60	2.6	122	100	75	36
		-2P-E	500	3φ200V	750	6	50/60	2.6	134	100	76	36
	AF/ AFS-55S	-1P-E	550	3φ200V	1500	6	50/60	5.2	143	150	78	50
		-2P-E	550	3φ200V	1500	6	50/60	5.2	190	150	78	50
	AF/ AFS-60S	-1P-E	600	3φ200V	1500	6	50/60	5.2	216	100	74	63
		-1P-E	600	3φ200V	2200	6	50/60	7.2	207	150	74	67
	AF/ AFS-65S	-1P-E	650	3φ200V	1500	6	50/60	5.2	242	100	77	67
		-1P-E	650	3φ200V	2200	6	50/60	7.2	235	150	77	71
	AF/ AFS-70S	-2P-E	650	3φ200V	3700	6	50/60	14.4	315	150	79	83
		-1P-E	700	3φ200V	2200	6	50/60	7.2	266	150	83	76

Selection chart

AL impeller

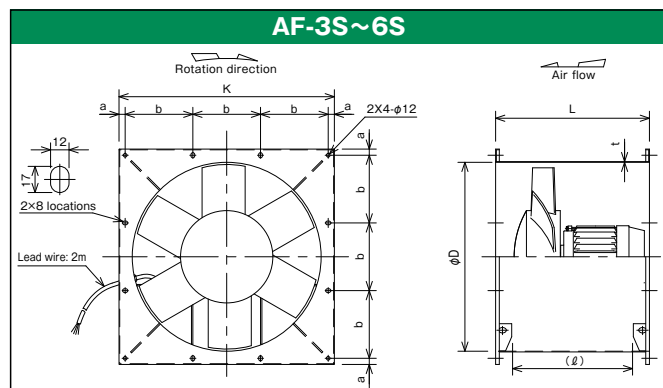


Steel/SUS impeller

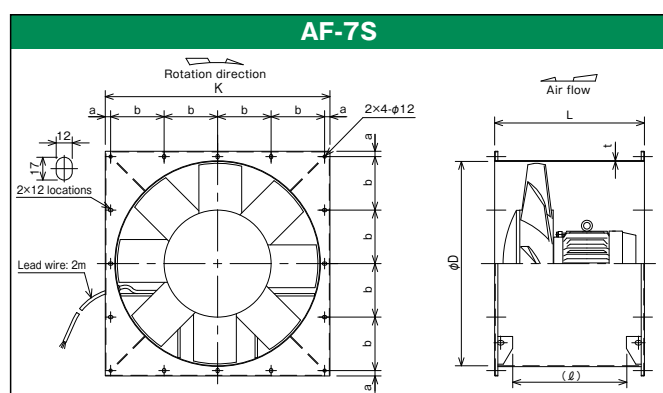


High-efficiency low-temperature specifications

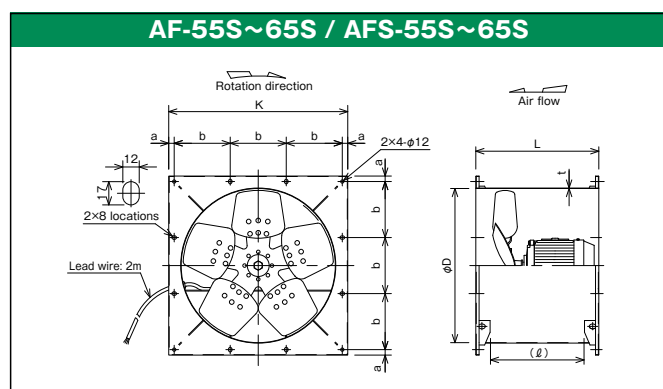
Assembly drawing



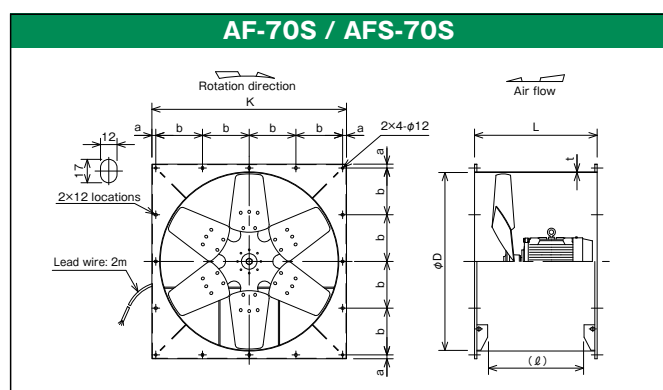
* Since the number of blades varies depending on the type, refer only to the outline dimensions.



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Dimensions

(Unit: mm)

Type		Output (W)	φD	L	K	a	b	t	(ℓ)	
AL impeller	AF-3S-P-E	750	514	400	595	20	185	1.6	295	
	AF-4S-P-E	1500	564	450	655	20	205	1.6	345	
	AF-5S-P-E	1500	614	500	700	20	220	2.3	395	
	AF-5S-P-E	2200	614	500	700	20	220	2.3	395	
	AF-6S-P-E	2200	664	500	760	20	240	2.3	395	
	AF-6S-P-E	3700	664	500	760	20	240	2.3	395	
	AF-7S-P-E	3700	714	500	800	20	190	2.3	365	
Steel impeller	AF-50S	-1P-E	750	514	400	595	20	185	1.6	295
		-2P-E	750	514	400	595	20	185	1.6	295
	AF-55S	-1P-E	1500	564	450	655	20	205	1.6	345
		-2P-E	1500	564	450	655	20	205	1.6	345
	AF-60S	-1P-E	1500	614	500	700	20	220	2.3	345
		-1P-E	2200	614	500	700	20	220	2.3	345
	AF-65S	-1P-E	1500	664	500	760	20	240	2.3	395
		-1P-E	2200	664	500	760	20	240	2.3	395
	AF-70S	-2P-E	3700	664	500	760	20	240	2.3	395
		-1P-E	2200	714	500	800	20	190	2.3	365
SUS impeller	AFS-50S	-1P-E	750	514	400	595	20	185	1.5	295
		-2P-E	750	514	400	595	20	185	1.5	295
	AFS-55S	-1P-E	1500	564	450	655	20	205	1.5	345
		-2P-E	1500	564	450	655	20	205	1.5	345
	AFS-60S	-1P-E	1500	614	500	700	20	220	2	345
		-1P-E	2200	614	500	700	20	220	2	345
	AFS-65S	-1P-E	1500	664	500	760	20	240	2	395
		-1P-E	2200	664	500	760	20	240	2	395
	AFS-70S	-2P-E	3700	664	500	760	20	240	2	395
AFS-70S	-1P-E	2200	714	500	800	20	190	2	365	

■ Specification table

Type		Fan diameter (mm)	Motor						Air volume (m³/min)	Static pressure (Pa)	Noise (dB(A))	Approx mass (kg)
			Power source	Output (W)	Number of poles (P)	Frequency (Hz)	Allowable current (A)	Starting current (A)				
AL impeller Standard specifications	AF-2S	400	3φ200V	400	4	50	2.2	11.1	52	100	71	28
		400	3φ200V	400	4	60	2.0	10.7	65	100	72	28
	AF-3S-E	500	3φ200V	750	4	50	3.8	27.3	80	150	76	41
		500	3φ200V	750	4	60	3.6	23.8	100	150	80	46
	AF-4S-E	550	3φ200V	750	4	50	3.9	27.3	75	150	78	46
		550	3φ200V	1500	4	60	6.4	41.0	125	200	82	57
	AF-5S-E	600	3φ200V	1500	4	50	6.8	46.6	155	200	83	71
		600	3φ200V	1500	4	60	7.2	41.0	165	200	83	71
	AF-6S-E	650	3φ200V	2200	4	50	13.0	96.0	195	200	84	84
		650	3φ200V	2200	4	60	13.0	81.0	180	200	84	84
	AF-7S-E	700	3φ200V	2200	4	50	10.6	96.0	210	200	85	87
		700	3φ200V	3700	4	60	16.0	118.0	310	200	85	107
	AF-8S-E	750	3φ200V	3700	4	50	17.0	134.0	320	200	86	118
		750	3φ200V	3700	4	60	16.0	118.0	330	200	86	118
	AF-9S-E	800	3φ200V	1500	6	50	8.0	61.0	200	150	80	108
		800	3φ200V	2200	6	60	13.0	68.0	240	200	83	135
	AF-10S-E	850	3φ200V	2200	6	50	10.6	84.0	270	150	83	143
		850	3φ200V	3700	6	60	15.6	102.0	330	200	86	174
	AF-11S-E	900	3φ200V	3700	6	50	16.6	123.0	370	150	84	181
		900	3φ200V	3700	6	60	15.6	102.0	370	200	86	181
	AF-12S-E	950	3φ200V	3700	6	50	16.6	123.0	420	150	84	187
		950	3φ200V	3700	6	60	15.6	102.0	410	200	87	187
AF-13S-E	1000	3φ200V	3700	6	50	17.0	123.0	450	150	85	200	
	1000	3φ200V	5500	6	60	22.2	145.0	550	200	85	223	
AL impeller Low-temperature specifications	AF-3S-C-E	500	3φ200V	750	4	50	3.8	27.3	90	150	76	42.5
		500	3φ200V	750	4	60	4.1	23.8	110	150	80	42.5
	AF-4S-C-E	550	3φ200V	750	4	50	3.8	27.3	110	150	78	47.5
		550	3φ200V	1500	4	60	6.4	41.0	140	200	82	55
	AF-5S-C-E	600	3φ200V	1500	4	50	7.0	46.6	165	200	83	66
		600	3φ200V	1500	4	60	7.7	41.0	173	200	83	66
	AF-6S-C-E	650	3φ200V	2200	4	50	12.1	96.0	210	200	84	76
		650	3φ200V	2200	4	60	13.9	81.0	195	200	84	76
	AF-7S-C-E	700	3φ200V	2200	4	50	10.9	96.0	250	200	85	79
		700	3φ200V	3700	4	60	17.7	118.0	320	200	85	95
	AF-8S-C-E	750	3φ200V	3700	4	50	17.0	134.0	340	200	86	106
		750	3φ200V	3700	4	60	19.4	118.0	360	200	86	106

Type		Fan diameter (mm)	Motor						Air volume (m ³ /min)	Static pressure (Pa)	Noise (dB(A))	Approx mass (kg)
			Power source	Output (W)	Number of poles (P)	Frequency (Hz)	Allowable current (A)	Starting current (A)				
Explosion-proof type axial flow fans	EAF-3S	500	3φ200V	750	4	50	3.8	20.6	80	150	76	51
		500	3φ200V	750	4	60	3.4	19.7	100	150	80	51
	EAF-4S	550	3φ200V	750	4	50	3.8	20.6	75	150	78	56
		550	3φ200V	1500	4	60	6.2	42.3	125	200	82	69
	EAF-5S	600	3φ200V	1500	4	50	6.8	45.1	155	200	83	83
		600	3φ200V	1500	4	60	6.2	42.3	165	200	83	83
	EAF-6S	650	3φ200V	2200	4	50	9.3	63.6	195	200	84	93
		650	3φ200V	2200	4	60	8.8	59.1	180	200	84	93
	EAF-7S	700	3φ200V	2200	4	50	9.3	63.6	210	200	85	96
		700	3φ200V	3700	4	60	14.0	102.0	310	200	85	124
	EAF-8S	750	3φ200V	3700	4	50	15.0	108.0	320	200	86	135
		750	3φ200V	3700	4	60	14.0	102.0	330	200	86	135
	EAF-9S	800	3φ200V	1500	6	50	7.4	42.4	200	150	80	114
		800	3φ200V	2200	6	60	9.4	59.0	240	200	83	144
	EAF-10S	850	3φ200V	2200	6	50	10.0	66.6	270	150	83	154
		850	3φ200V	3700	6	60	15.4	95.0	330	200	86	192
	EAF-11S	900	3φ200V	3700	6	50	16.6	108.0	370	150	84	199
		900	3φ200V	3700	6	60	15.4	95.0	370	200	86	199
	EAF-12S	950	3φ200V	3700	6	50	16.6	108.0	420	150	84	205
		950	3φ200V	3700	6	60	15.4	95.0	410	200	87	205
	EAF-13S	1000	3φ200V	3700	6	50	16.6	108.0	450	150	85	218
		1000	3φ200V	5500	6	60	22.2	143.0	550	200	85	250

* Contact us for details of WAF type.

* Standard specifications are compatible with 400V.

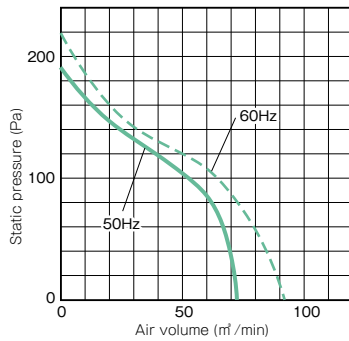
Selection chart

Characteristics under standard (+20°C) specifications

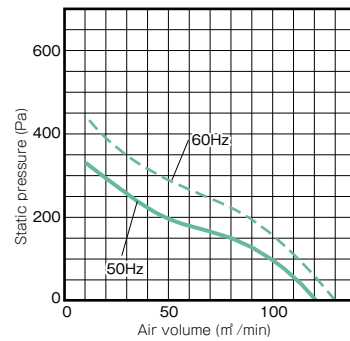
60Hz -----
50Hz -----

AL impeller: Standard specifications (using Top Runner motor)

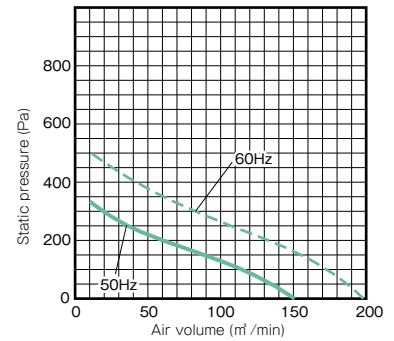
AF-2S
φ400mm 3-phase 0.4kW 4P 200V 50/60Hz



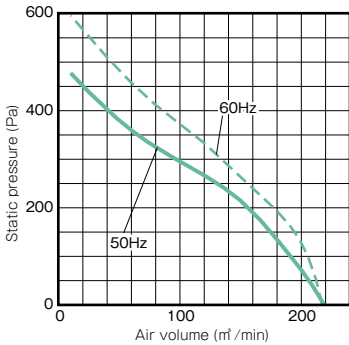
AF-3S-E AF-3S
φ500mm 3-phase 0.75kW 4P 200V 50/60Hz



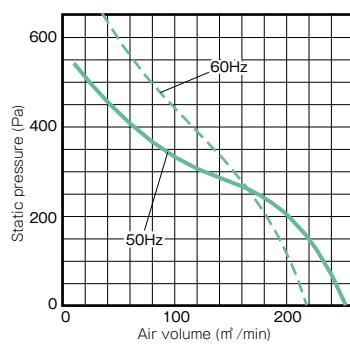
AF-4S-E AF-4S
φ550mm 3-phase 0.75/1.5kW 4P 200V 50/60Hz



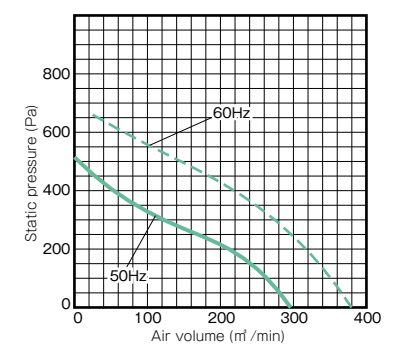
AF-5S-E AF-5S
φ600mm 3-phase 1.5kW 4P 200V 50/60Hz



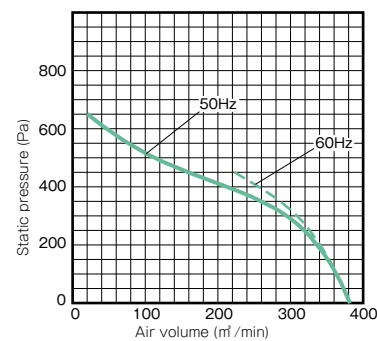
AF-6S-E AF-6S
φ650mm 3-phase 2.2kW 4P 200V 50/60Hz



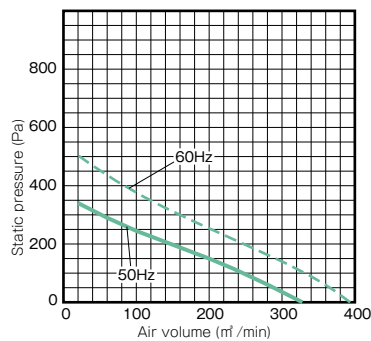
AF-7S-E AF-7S
φ700mm 3-phase 2.2/3.7kW 4P 200V 50/60Hz



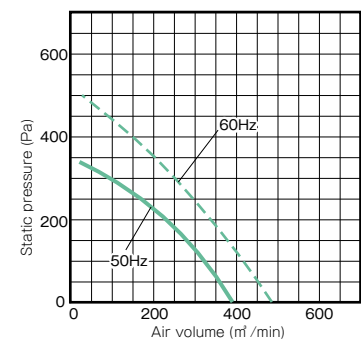
AF-8S-E AF-8S
φ750mm 3-phase 3.7kW 4P 200V 50/60Hz



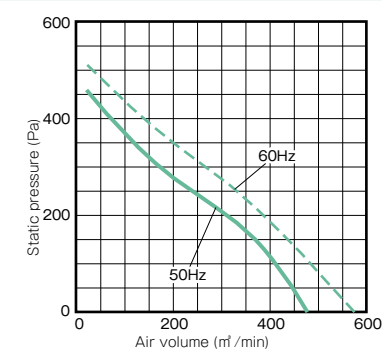
AF-9S-E AF-9S
φ800mm 3-phase 1.5/2.2kW 6P 200V 50/60Hz



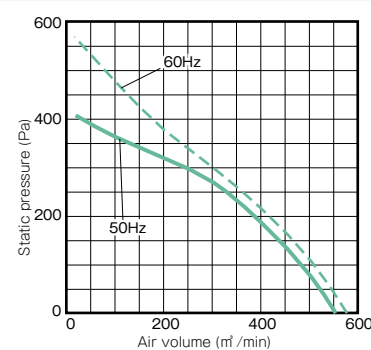
AF-10S-E AF-10S
φ850mm 3-phase 2.2/3.7kW 6P 200V 50/60Hz



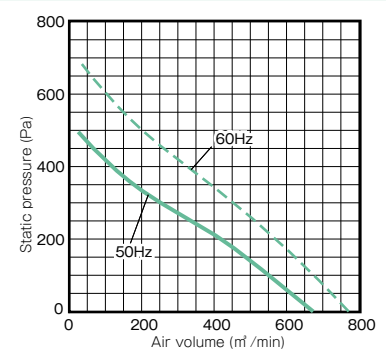
AF-11S-E AF-11S
φ900mm 3-phase 3.7kW 6P 200V 50/60Hz



AF-12S-E AF-12S
φ950mm 3-phase 3.7kW 6P 200V 50/60Hz



AF-13S-E AF-13S
φ1000mm 3-phase 3.7/5.5kW 6P 200V 50/60Hz



Selection chart

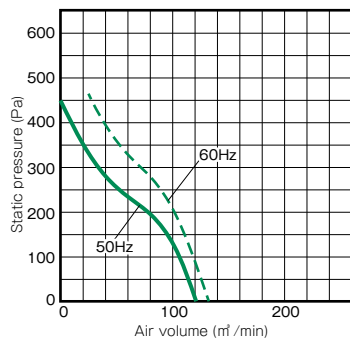
Characteristics under low-temperature (-30°C) specifications

60Hz - - - - -
50Hz ————

AL impeller: Low-temperature specifications (using Top Runner motor)

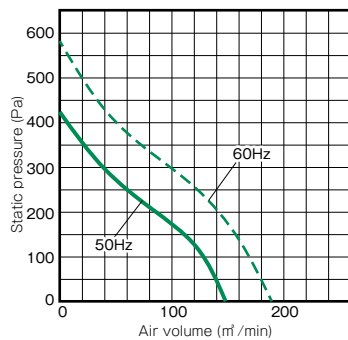
AF-3S-C-E

φ500mm 3-phase 0.75kW 4P 200V 50/60Hz



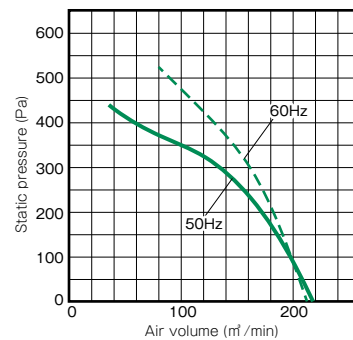
AF-4S-C-E

φ550mm 3-phase 0.75/1.5kW 4P 200V 50/60Hz



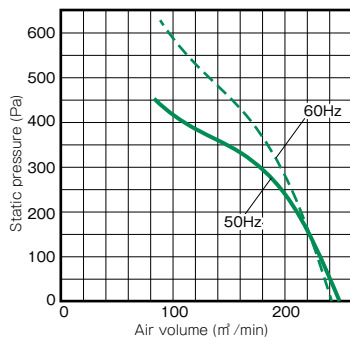
AF-5S-C-E

φ600mm 3-phase 1.5kW 4P 200V 50/60Hz



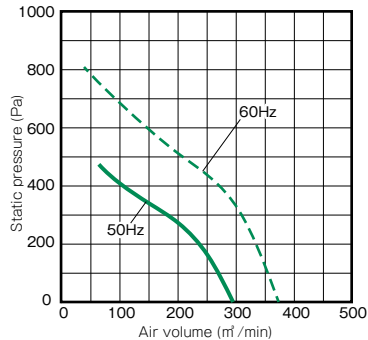
AF-6S-C-E

φ650mm 3-phase 2.2kW 4P 200V 50/60Hz



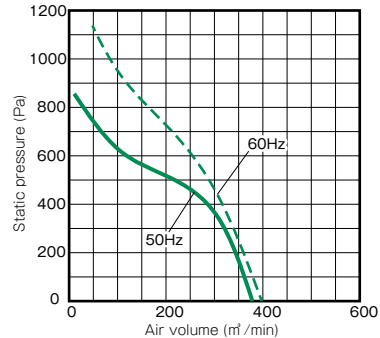
AF-7S-C-E

φ700mm 3-phase 2.2/3.7kW 4P 200V 50/60Hz



AF-8S-C-E

φ750mm 3-phase 3.7kW 4P 200V 50/60Hz



Selection chart

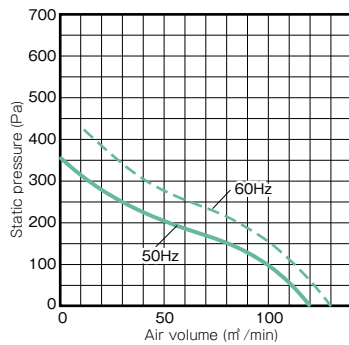
Characteristics under standard (+20°C) specifications

60Hz ---
50Hz —

Explosion-proof type axial flow fans

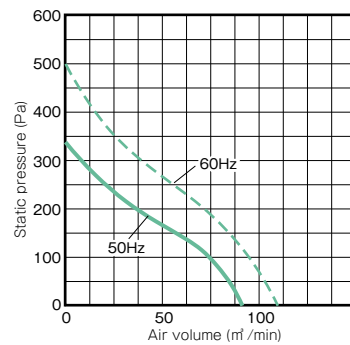
EAF-3S

φ500mm 3-phase 0.75kW 4P 200V 50/60Hz



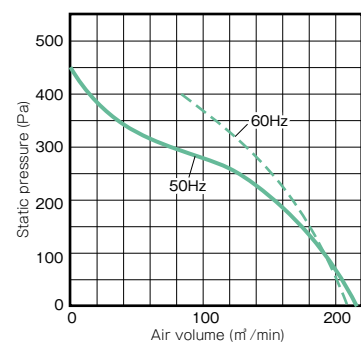
EAF-4S

φ550mm 3-phase 0.75/1.5kW 4P 200V 50/60Hz



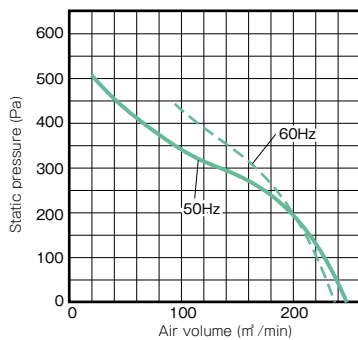
EAF-5S

φ600mm 3-phase 1.5kW 4P 200V 50/60Hz



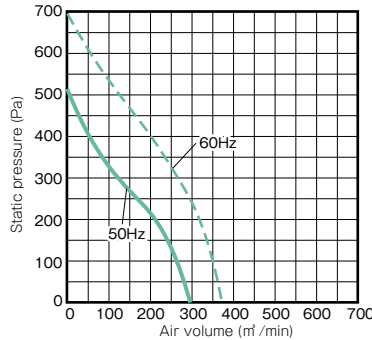
EAF-6S

φ650mm 3-phase 2.2kW 4P 200V 50/60Hz



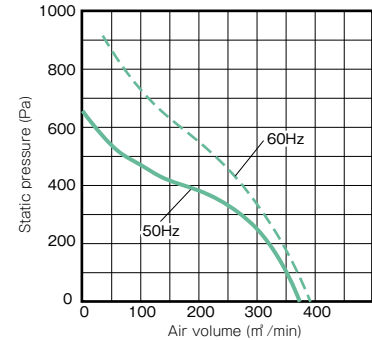
EAF-7S

φ700mm 3-phase 2.2/3.7kW 4P 200V 50/60Hz



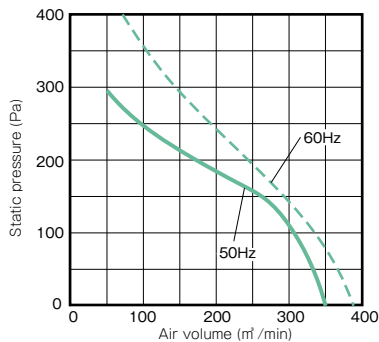
EAF-8S

φ750mm 3-phase 3.7kW 4P 200V 50/60Hz



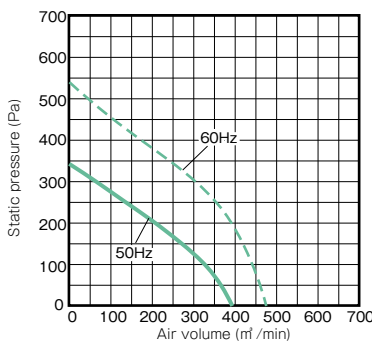
EAF-9S

φ800mm 3-phase 1.5/2.2kW 6P 200V 50/60Hz



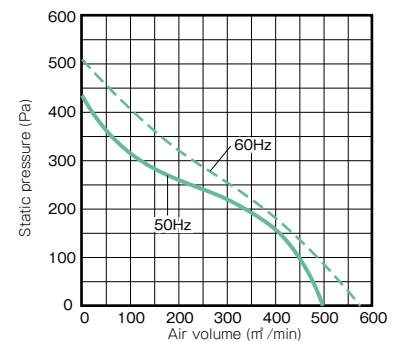
EAF-10S

φ850mm 3-phase 2.2/3.7kW 6P 200V 50/60Hz



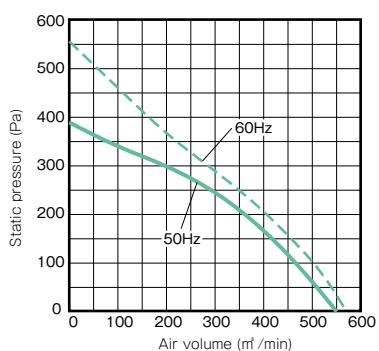
EAF-11S

φ900mm 3-phase 3.7/5.5kW 6P 200V 50/60Hz



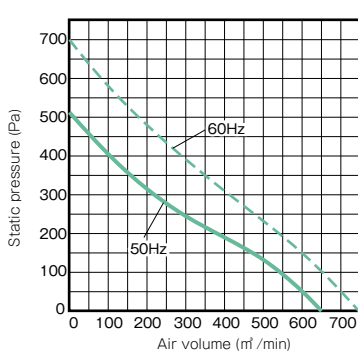
EAF-12S

φ950mm 3-phase 3.7kW 6P 200V 50/60Hz

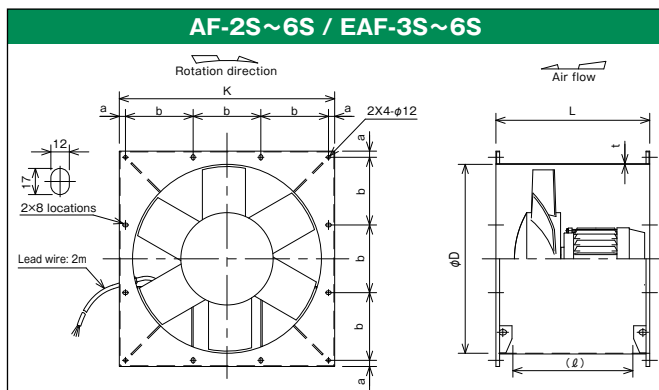


EAF-13S

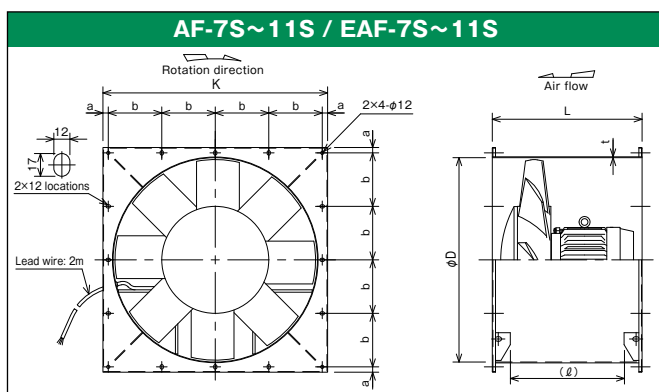
φ1000mm 3-phase 3.7/5.5kW 6P 200V 50/60Hz



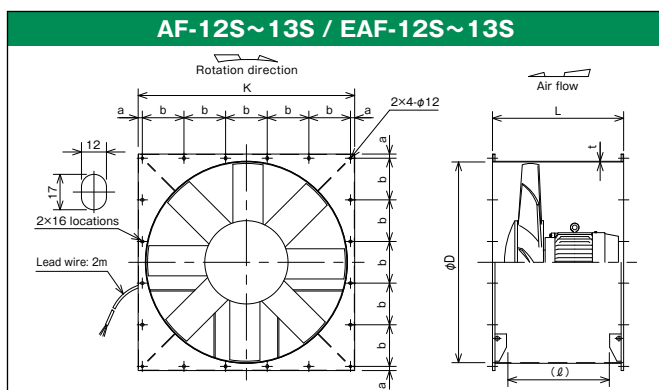
Assembly drawing



* Since the number of blades varies depending on the type, refer only to the outline dimensions.



* Since the number of blades varies depending on the type, refer only to the outline dimensions.



* Since the number of blades varies depending on the type, refer only to the outline dimensions.

Note for EAF:

- 1) The motor shape changes.
- 2) The lead wires are replaced by a terminal box.

Dimensions

(Unit: mm)

Type		φ D	L	K	a	b	t	(ℓ)	
AL impeller	Standard specifications	AF-2S	414	400	490	20	150	1.6	295
		AF-3S-E	514	400	595	20	185	1.6	295
		AF-4S-E	564	450	655	20	205	1.6	345
		AF-5S-E	614	500	700	20	220	2.3	395
		AF-6S-E	664	500	760	20	240	2.3	395
		AF-7S-E	714	500	800	20	190	2.3	365
		AF-8S-E	764	560	840	20	200	2.3	425
		AF-9S-E	814	560/600	900	20	215	2.3	425/465
		AF-10S-E	864	630	960	20	230	2.3/3.2	495
		AF-11S-E	914	630	1000	20	240	3.2	495
		AF-12S-E	964	630	1040	20	200	3.2	495
		AF-13S-E	1014	630	1140	20	220	3.2	495
	Low-temperature specifications	AF-3S-C-E	514	400	595	20	185	1.6	295
		AF-4S-C-E	564	450	655	20	205	1.6	345
		AF-5S-C-E	614	500	700	20	220	2.3	395
		AF-6S-C-E	664	500	760	20	240	2.3	395
		AF-7S-C-E	714	500	800	20	190	2.3	365
		AF-8S-C-E	764	560	840	20	200	2.3	425
	Explosion-proof type	EAF-3S	514	400	595	20	185	1.6	295
		EAF-4S	564	500	655	20	205	1.6	395
		EAF-5S	614	500	700	20	220	2.3	395
		EAF-6S	664	560	760	20	240	2.3	455
EAF-7S		714	560	800	20	190	2.3	425	
EAF-8S		764	630	840	20	200	2.3	495	
EAF-9S		814	560	900	20	215	2.3	425	
EAF-10S		864	630	960	20	230	2.3/3.2	495	
EAF-11S		914	630	1000	20	240	3.2	495	
EAF-12S		964	630	1040	20	200	3.2	495	
EAF-13S		1014	630	1140	20	220	3.2	495	

Specification table

* For blanks, please contact us.

Type			Fan diameter (mm)	Motor						Air volume (m ³ /min)	Static pressure (Pa)	Noise (dB(A))	Approx mass (kg)
				Power source	Output (W)	Number of poles (P)	Frequency (Hz)	Allowable current (A)	Starting current (A)				
Steel/SUS impeller standard specifications	AF/AFS-40S	-1	400	3φ200V	400	4	50	2.2	11.1	45	100	66	25
			400	3φ200V	400	4	60	2.0	10.7	60	100	68	25
		-2	400	3φ200V	400	4	50	2.2	11.1	45	100	68	25
			400	3φ200V	400	4	60	2.0	10.7	65	100	70	25
	AF/AFS-50S	-1	500	3φ200V	400	4	50	2.2	11.1	95	100	72	30
			500	3φ200V	750	4	60	3.4	23.8	120	100	75	37
		-2	500	3φ200V	750	4	50	3.8	27.3	105	100	72	37
			500	3φ200V	750	4	60	3.4	23.8	135	100	76	37
	AF/AFS-55S	-1-E	550	3φ200V	750	4	50	3.8	27.3	100	150	73	44
			550	3φ200V	1500	4	60	6.4	41.0	135	150	78	55
		-2-E	550	3φ200V	1500	4	50	6.8	46.6	135	150	73	55
			550	3φ200V	1500	4	60	6.4	41.0	190	150	78	55
	AF/AFS-60S	-1-E	600	3φ200V	1500	4	50	6.8	46.6	140	150	72	68
			600	3φ200V	1500	4	60	6.8	41.0	195	150	74	68
		-2-E	600	3φ200V	1500	4	50	6.8	46.6	190	150	74	68
			600	3φ200V	2200	4	60	11.0	81.0	230	150	78	78
	AF/AFS-65S	-1-E	650	3φ200V	1500	4	50	6.8	46.6	160	150	76	72
			650	3φ200V	1500	4	60	6.4	41.0	220	150	77	72
		-2-E	650	3φ200V	2200	4	50	10.6	96.0	240	150	76	83
			650	3φ200V	3700	4	60	14.6	118.0	290	150	79	97
	AF/AFS-70S	-1-E	700	3φ200V	1500	4	50	6.8	46.6	190	150	79	79
			700	3φ200V	2200	4	60	10.0	81.0	250	150	83	86
		-2-E	700	3φ200V	2200	4	50	10.6	96.0	280	150	82	86
			700	3φ200V	3700	4	60	14.6	118.0	350	150	86	106
	AF/AFS-75S	-1-E	750	3φ200V	3700	4	50	15.6	134.0	280	200	82	112
			750	3φ200V	5500	4	60	21.4	166.0	370	200	85	150
		-2-E	750	3φ200V	3700	4	50	15.6	134.0	310	200	83	112
			750	3φ200V	5500	4	60	24.0	166.0	410	200	87	150
	AF/AFS-80S	-1-E	800	3φ200V	1500	6	50	7.8	61.0	150	150	79	112
			800	3φ200V	1500	6	60	7.0	50.0	210	150	79	112
		-2-E	800	3φ200V	1500	6	50	7.8	61.0	220	150	78	112
			800	3φ200V	2200	6	60	10.0	68.0	340	150	81	125
	AF/AFS-85S	-1-E	850	3φ200V	1500	6	50	7.8	61.0	270	150	75	154
			850	3φ200V	3700	6	60	15.6	102.0	350	150	79	181
		-2-E	850	3φ200V	3700	6	50	16.6	123.0	380	150	79	181
			850	3φ200V	3700	6	60	15.6	102.0	470	150	83	181
	AF/AFS-90S	-1-E	900	3φ200V	2200	6	50	11.0	84.0	350	150	77	157
			900	3φ200V	3700	6	60	15.6	102.0	470	150	80	171
		-2-E	900	3φ200V	3700	6	50	16.6	123.0	440	150	78	171
			900	3φ200V	5500	6	60	22.2	145.0	550	150	81	174
	AF/AFS-95S	-1-E	950	3φ200V	3700	6	50	16.6	123.0	410	150	78	190
			950	3φ200V	5500	6	60	22.2	145.0	520	150	82	219
		-2-E	950	3φ200V	3700	6	50	19.0	123.0	520	150	80	190
			950	3φ200V	7500	6	60	30.0	172.0	650	150	83	253
	AF/AFS-100S	-1-E	1000	3φ200V	3700	6	50	16.6	123.0	550	150	84	204
			1000	3φ200V	5500	6	60	22.2	145.0	700	150	87	219
		-2-E	1000	3φ200V	5500	6	50	23.8	176.0	600	150	84	219
			AF/AFS-110S	-2-E	1100	3φ200V	7500	6	50	31.2	204.0		150

Type			Fan diameter (mm)	Motor						Air volume (m ³ /min)	Static pressure (Pa)	Noise (dB(A))	Approx mass (kg)
				Power source	Output (W)	Number of poles (P)	Frequency (Hz)	Allowable current (A)	Starting current (A)				
Steel/SUS impeller low-temperature specifications	AF(AFS)-40S	-1	400	3φ200V	400	4	50	2.2	11.1	52	100	66	25
			400	3φ200V	400	4	60	2.0	10.7	65	100	68	25
		-2	400	3φ200V	400	4	50	2.2	11.1	55	100	68	25
			400	3φ200V	400	4	60	2.0	10.7	70	100	70	25
	AF(AFS)-50S	-1	500	3φ200V	400	4	50	2.2	11.1	95	100	72	30
			500	3φ200V	750	4	60	3.4	23.8	122	100	75	38.5
		-2-C-E	500	3φ200V	750	4	50	3.8	27.3	110	100	72	38.5
			500	3φ200V	750	4	60	3.9	23.8	140	100	76	38.5
	AF(AFS)-55S	-1-C-E	550	3φ200V	750	4	50	3.8	27.3	105	150	73	45.5
			550	3φ200V	1500	4	60	6.4	41.0	140	150	78	53
		-2-C-E	550	3φ200V	1500	4	50	6.8	46.6	140	150	73	53
			550	3φ200V	1500	4	60	6.6	41.0	190	150	78	53
	AF(AFS)-60S	-1-C-E	600	3φ200V	1500	4	50	6.8	46.6	145	150	72	66
			600	3φ200V	1500	4	60	7.5	41.0	200	150	74	66
		-2-C-E	600	3φ200V	1500	4	50	7.2	46.6	195	150	74	66
			600	3φ200V	2200	4	60	11.5	81.0	245	150	78	79
	AF(AFS)-65S	-1-C-E	650	3φ200V	1500	4	50	6.8	46.6	165	150	76	70
			650	3φ200V	1500	4	60	7.7	41.0	230	150	77	70
		-2-C-E	650	3φ200V	2200	4	50	10.6	96.0	245	150	76	84
			650	3φ200V	3700	4	60	14.6	118.0	295	150	79	95
	AF(AFS)-70S	-1-C-E	700	3φ200V	1500	4	50	7.4	46.6	210	150	79	77
			700	3φ200V	2200	4	60	11.5	81.0	255	150	83	87
		-2-C-E	700	3φ200V	2200	4	50	13.3	96.0	285	150	82	87
			700	3φ200V	3700	4	60	17.3	118.0	350	150	86	104
	AF(AFS)-75S	-1-C-E	750	3φ200V	3700	4	50	16.7	134.0	290	200	82	110
		-2-C-E	750	3φ200V	3700	4	50	16.5	134.0	330	200	83	110

* Contact us for details of WAF type.

* Standard specifications are compatible with 400V.

Selection chart

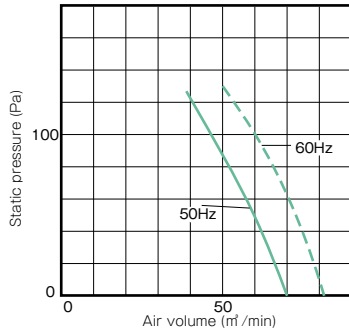
Characteristics under standard (+20°C) specifications

60Hz -----
50Hz —————

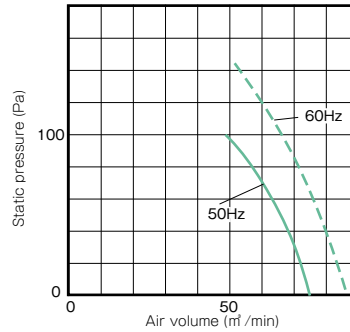
Steel impeller: Standard specifications (using Top Runner motor)

SUS impeller: Standard specifications (using Top Runner motor)

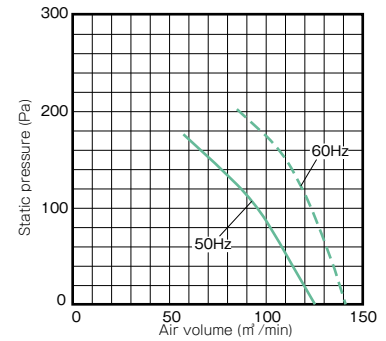
AF-40S-1 AFS-40S-1
φ400mm 3-phase 400W 4P 200V 50/60Hz



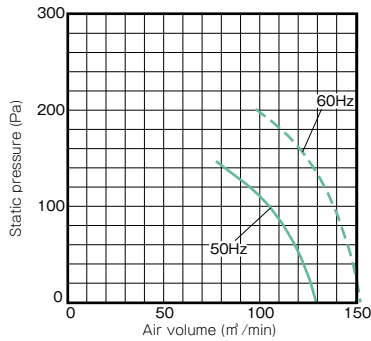
AF-40S-2 AFS-40S-2
φ400mm 3-phase 400W 4P 200V 50/60Hz



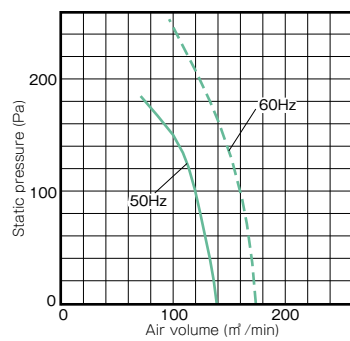
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φ500mm 3-phase 400/750W 4P 200V 50/60Hz



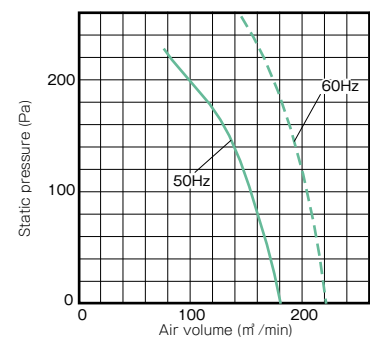
AF-50S-2-E AF-50S-2 AFS-50S-2-E AFS-50S-2
φ500mm 3-phase 750W 4P 200V 50/60Hz



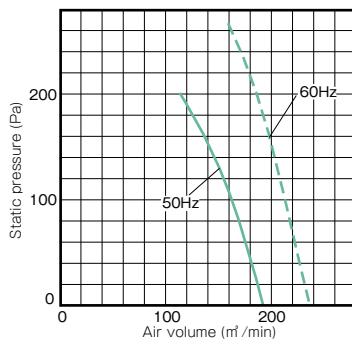
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φ550mm 3-phase 750W/1.5kW 4P 200V 50/60Hz



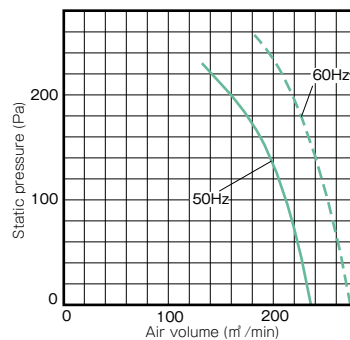
AF-55S-2-E AF-55S-2 AFS-55S-2-E AFS-55S-2
φ550mm 3-phase 1.5kW 4P 200V 50/60Hz



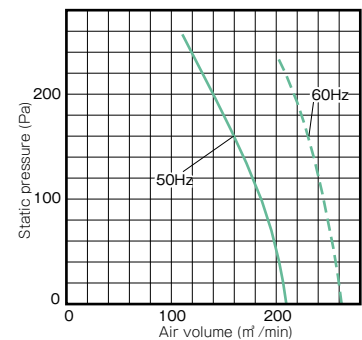
AF-60S-1-E AF-60S-1 AFS-60S-1-E AFS-60S-1
φ600mm 3-phase 1.5kW 4P 200V 50/60Hz



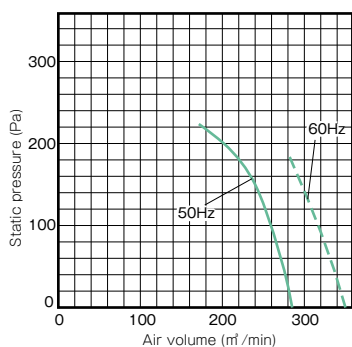
AF-60S-2-E AF-60S-2 AFS-60S-2-E AFS-60S-2
φ600mm 3-phase 1.5/2.2kW 4P 200V 50/60Hz



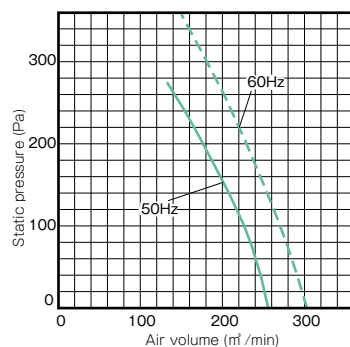
AF-65S-1-E AF-65S-1 AFS-65S-1-E AFS-65S-1
φ650mm 3-phase 1.5kW 4P 200V 50/60Hz



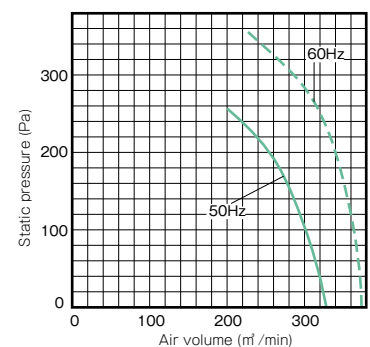
AF-65S-2-E AF-65S-2 AFS-65S-2-E AFS-65S-2
φ650mm 3-phase 2.2/3.7kW 4P 200V 50/60Hz



AF-70S-1-E AF-70S-1 AFS-70S-1-E AFS-70S-1
φ700mm 3-phase 1.5/2.2kW 4P 200V 50/60Hz



AF-70S-2-E AF-70S-2 AFS-70S-2-E AFS-70S-2
φ700mm 3-phase 2.2/3.7kW 4P 200V 50/60Hz



Selection chart

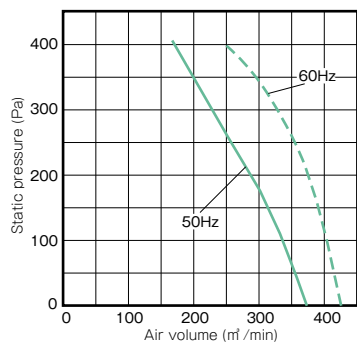
Characteristics under standard (+20°C) specifications

60Hz -----
50Hz ————

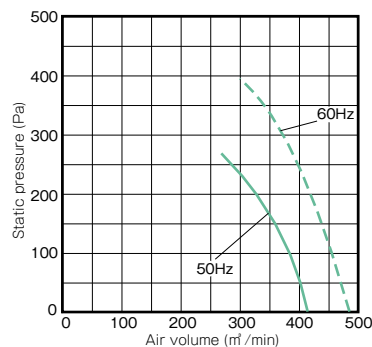
Steel impeller: Standard specifications (using Top Runner motor)

SUS impeller: Standard specifications (using Top Runner motor)

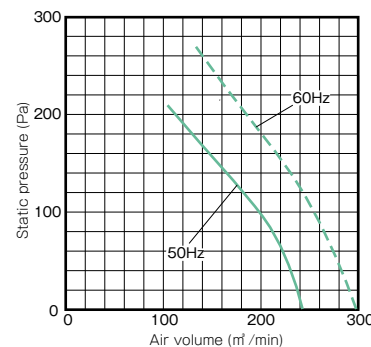
AF-75S-1-E AF-75S-1 AFS-75S-1-E AFS-75S-1
φ750mm 3-phase 3.7/5.5kW 4P 200V 50/60Hz



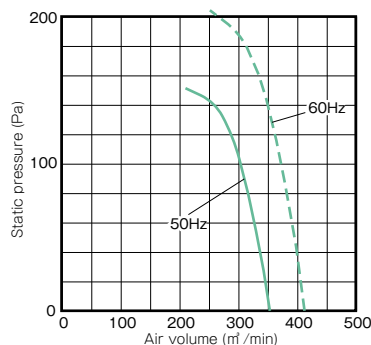
AF-75S-2-E AF-75S-2 AFS-75S-2-E AFS-75S-2
φ750mm 3-phase 3.7/5.5kW 4P 200V 50/60Hz



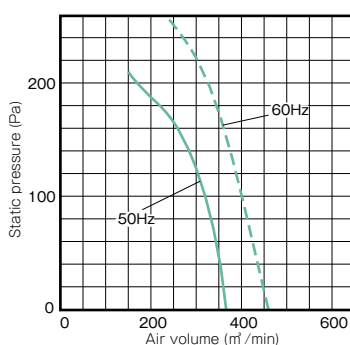
AF-80S-1-E AF-80S-1 AFS-80S-1-E AFS-80S-1
φ800mm 3-phase 1.5kW 6P 200V 50/60Hz



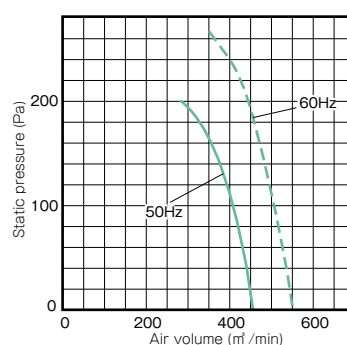
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φ800mm 3-phase 1.5/2.2kW 6P 200V 50/60Hz



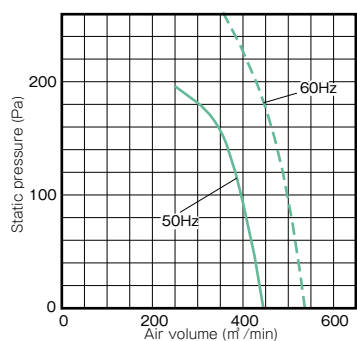
AF-85S-1-E AF-85S-1 AFS-85S-1-E AFS-85S-1
φ850mm 3-phase 1.5/3.7kW 6P 200V 50/60Hz



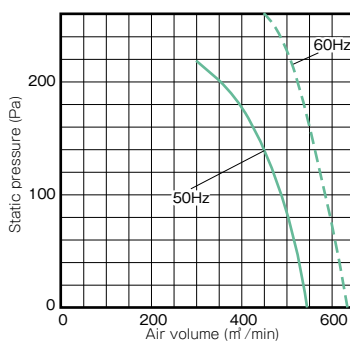
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φ850mm 3-phase 3.7kW 6P 200V 50/60Hz



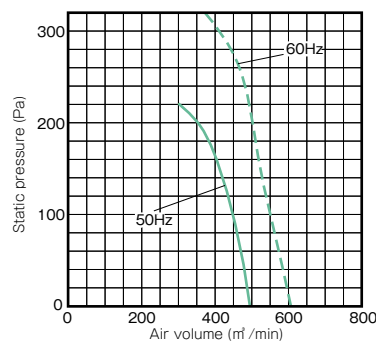
AF-90S-1-E AF-90S-1 AFS-90S-1-E AFS-90S-1
φ900mm 3-phase 2.2/3.7kW 6P 200V 50/60Hz



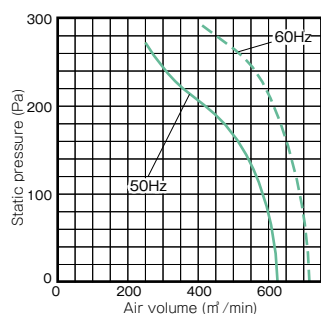
AF-90S-2-E AF-90S-2 AFS-90S-2-E AFS-90S-2
φ900mm 3-phase 3.7/5.5kW 6P 200V 50/60Hz



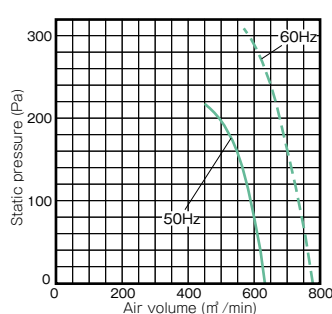
AF-95S-1-E AF-95S-1 AFS-95S-1-E AFS-95S-1
φ950mm 3-phase 3.7/5.5kW 6P 200V 50/60Hz



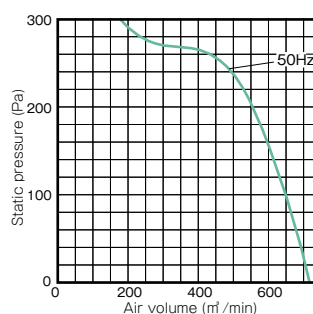
AF-95S-2-E AF-95S-2 AFS-95S-2-E AFS-95S-2
φ950mm 3-phase 3.7/7.5kW 6P 200V 50/60Hz



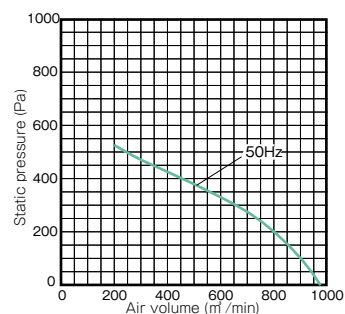
AF-100S-1-E AF-100S-1 AFS-100S-1-E AFS-100S-1
φ1000mm 3-phase 3.7/5.5kW 6P 200V 50/60Hz



AF-100S-2-E AF-100S-2 AFS-100S-2-E AFS-100S-2
φ1000mm 3-phase 5.5kW 6P 200V 50Hz



AF-110S-2-E AF-110S-2 AFS-110S-2-E AFS-110S-2
φ1100mm 3-phase 7.5kW 6P 200V 50Hz



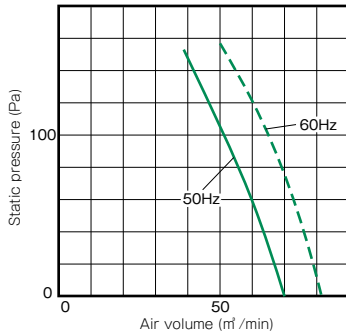
Selection chart

Characteristics under low-temperature (-30°C) specifications 60Hz -----
50Hz ———

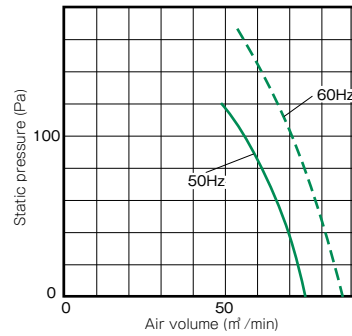
Steel impeller: Low-temperature specifications
(using Top Runner motor)

SUS impeller: Low-temperature specifications
(using Top Runner motor)

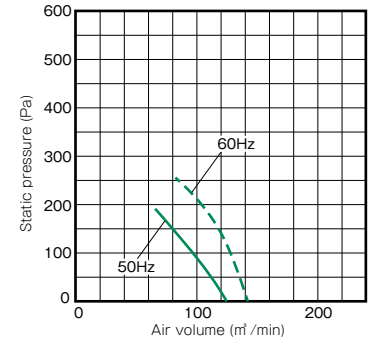
AF-40S-1 AFS-40S-1
φ400mm 3-phase 400W 4P 200V 50/60Hz



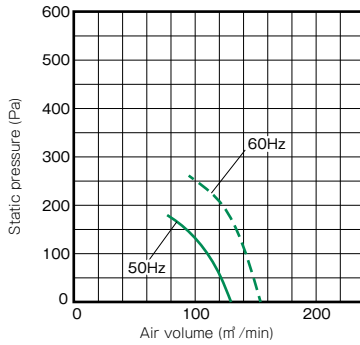
AF-40S-2 AFS-40S-2
φ400mm 3-phase 400W 4P 200V 50/60Hz



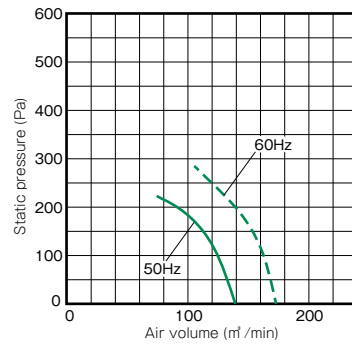
AF-50S-1/AF-50S-1-C-E AFS-50S-1/AFS-50S-1-C-E
φ500mm 3-phase 400/750W 4P 200V 50/60Hz



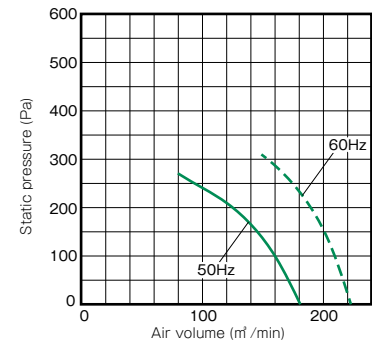
AF-50S-2-C-E AFS-50S-2-C-E
φ500mm 3-phase 750W 4P 200V 50/60Hz



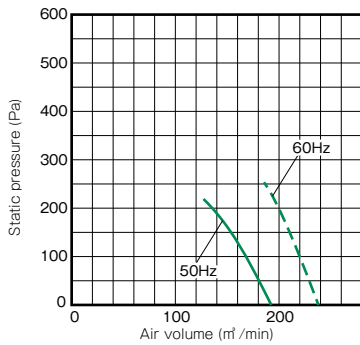
AF-55S-1-C-E AFS-55S-1-C-E
φ550mm 3-phase 750W/1.5kW 4P 200V 50/60Hz



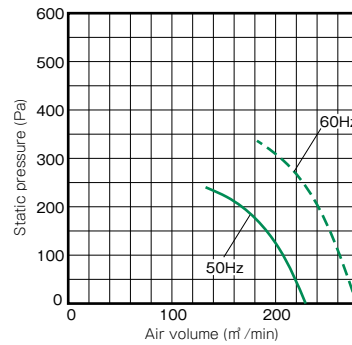
AF-55S-2-C-E AFS-55S-2-C-E
φ550mm 3-phase 1.5kW 4P 200V 50/60Hz



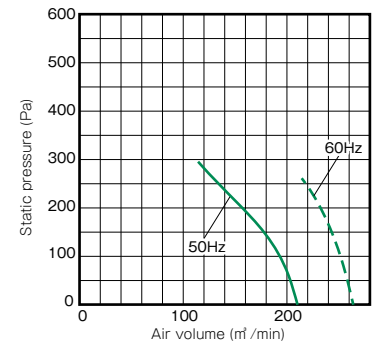
AF-60S-1-C-E AFS-60S-1-C-E
φ600mm 3-phase 1.5kW 4P 200V 50/60Hz



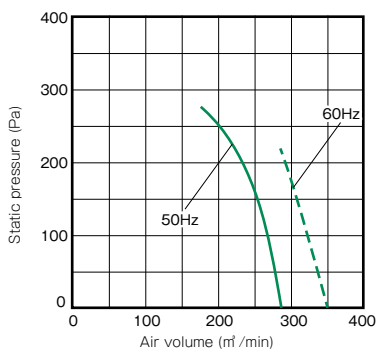
AF-60S-2-C-E AFS-60S-2-C-E
φ600mm 3-phase 1.5/2.2kW 4P 200V 50/60Hz



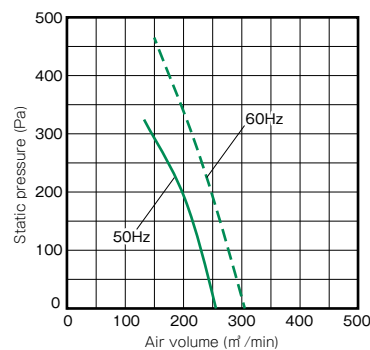
AF-65S-1-C-E AFS-65S-1-C-E
φ650mm 3-phase 1.5kW 4P 200V 50/60Hz



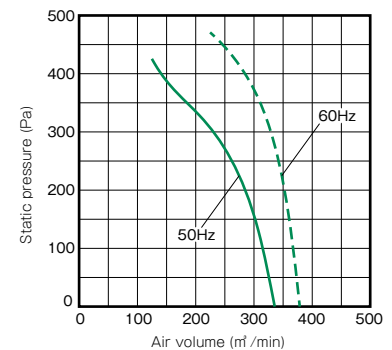
AF-65S-2-C-E AFS-65S-2-C-E
φ650mm 3-phase 2.2/3.7kW 4P 200V 50/60Hz



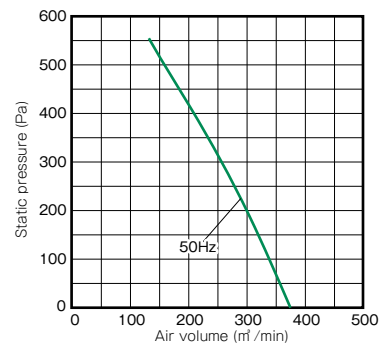
AF-70S-1-C-E AFS-70S-1-C-E
φ700mm 3-phase 1.5/2.2kW 4P 200V 50/60Hz



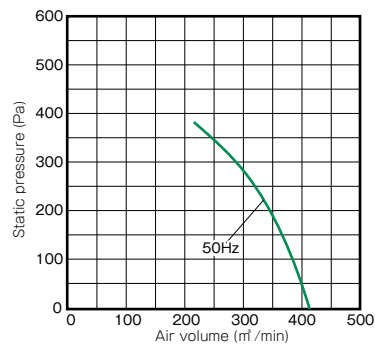
AF-70S-2-C-E AFS-70S-2-C-E
φ700mm 3-phase 2.2/3.7kW 4P 200V 50/60Hz



AF-75S-1-C-E AFS-75S-1-C-E
ø750mm 3-phase 3.7kW 4P 200V 50Hz

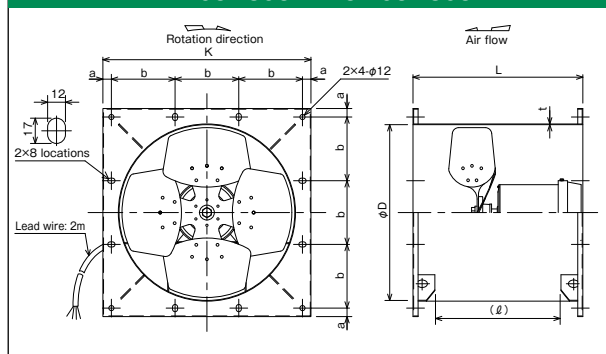


AF-75S-2-C-E AFS-75S-2-C-E
ø750mm 3-phase 3.7kW 4P 200V 50Hz



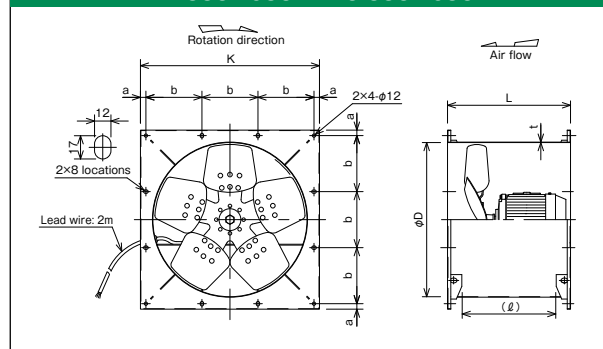
Assembly drawing

AF-40S~50S / AFS-40S~50S



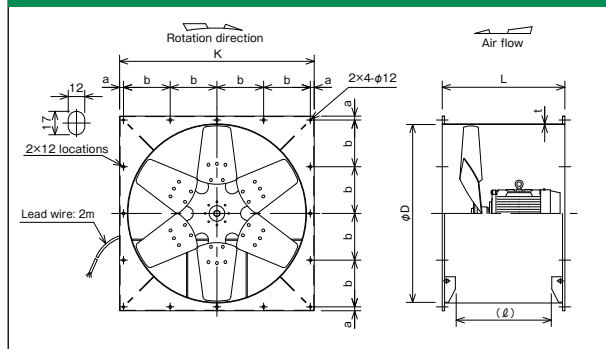
* Since the number of blades varies depending on the type, refer only to the outline dimensions.

AF-55S~65S / AFS-55S~65S



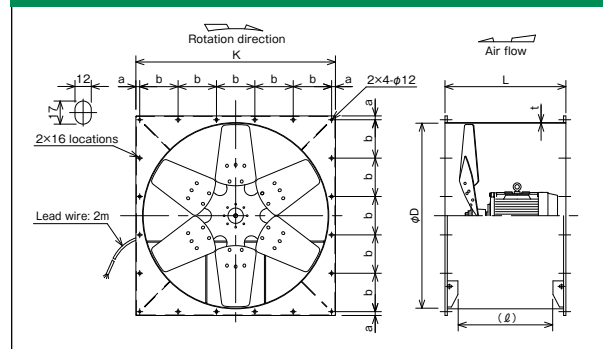
* Since the number of blades varies depending on the type, refer only to the outline dimensions.

AF-70S~90S / AFS-70S~90S



* Since the number of blades varies depending on the type, refer only to the outline dimensions.

AF-95S~110S / AFS-95S~110S



* Since the number of blades varies depending on the type, refer only to the outline dimensions.

■ Dimensions

(Unit: mm)

Type		φ D	L	K	a	b	t	(ℓ)	
Steel impeller	Standard specifications	AF-40S-1 AF-40S-2	414	400	490	20	150	1.6	295
		AF-50S-1 AF-50S-1-E AF-50S-2-E	514	400	595	20	185	1.6	295
		AF-55S-1-E AF-55S-2-E	564	450	655	20	205	1.6	345
		AF-60S-1-E AF-60S-2-E	614	500	700	20	220	2.3	345
		AF-65S-1-E AF-65S-2-E	664	500	760	20	240	2.3	395
		AF-70S-1-E AF-70S-2-E	714	500	800	20	190	2.3	365
		AF-75S-1-E AF-75S-2-E	764	560	840	20	200	2.3/3.2	425
		AF-80S-1-E AF-80S-2-E	814	560	900	20	215	2.3	425
		AF-85S-1-E AF-85S-2-E	864	630	960	20	230	3.2	495
		AF-90S-1-E AF-90S-2-E	914	630	1000	20	240	3.2	495
		AF-95S-1-E	964	630	1040	20	200	3.2	495
		AF-95S-2-E	964	630/710	1040	20	200	3.2	495/575
		AF-100S-1-E AF-100S-2-E	1014	630	1140	20	220	3.2	495
		AF-110S-2-E	1114	750	1240	20	240	3.2	—
	Low-temperature specifications	AF-40S-1 AF-40S-2	414	400	490	20	150	1.6	295
		AF-50S-1 AF-50S-1-C-E AF-50S-2-C-E	514	400	595	20	185	1.6	295
		AF-55S-1-C-E AF-55S-2-C-E	564	450	655	20	205	1.6	345
		AF-60S-1-C-E AF-60S-2-C-E	614	500	700	20	220	2.3	345
		AF-65S-1-C-E AF-65S-2-C-E	664	500	760	20	240	2.3	395
		AF-70S-1-C-E AF-70S-2-C-E	714	500	800	20	190	2.3	365
		AF-75S-1-C-E AF-75S-2-C-E	764	560	840	20	200	2.3/3.2	425

		Type	φ D	L	K	a	b	t	(ℓ)
SUS Impeller	Standard specifications	AFS-40S-1 AFS-40S-2	414	400	490	20	150	1.5	295
		AFS-50S-1 AFS-50S-1-E AFS-50S-2-E	514	400	595	20	185	1.5	295
		AFS-55S-1-E AFS-55S-2-E	564	450	655	20	205	1.5	345
		AFS-60S-1-E AFS-60S-2-E	614	500	700	20	220	2	345
		AFS-65S-1-E AFS-65S-2-E	664	500	760	20	240	2	395
		AFS-70S-1-E AFS-70S-2-E	714	500	800	20	190	2	365
		AFS-75S-1-E AFS-75S-2-E	764	560	840	20	200	2/3	425
		AFS-80S-1-E AFS-80S-2-E	814	560	900	20	215	2	425
		AFS-85S-1-E AFS-85S-2-E	864	630	960	20	230	3	495
		AFS-90S-1-E AFS-90S-2-E	914	630	1000	20	240	3	495
		AFS-95S-1-E	964	630	1040	20	200	3	495
		AFS-95S-2-E	964	630/710	1040	20	200	3	495/575
		AFS-100S-1-E AFS-100S-2-E	1014	630	1140	20	220	3	495
		AFS-110S-2-E	1114	750	1240	20	240	3	—
	Low-temperature specifications	AFS-40S-1 AFS-40S-2	414	400	490	20	150	1.5	295
		AFS-50S-1 AFS-50S-1-C-E AFS-50S-2-C-E	514	400	595	20	185	1.5	295
		AFS-55S-1-C-E AFS-55S-2-C-E	564	450	655	20	205	1.5	345
		AFS-60S-1-C-E AFS-60S-2-C-E	614	500	700	20	220	2	345
		AFS-65S-1-C-E AFS-65S-2-C-E	664	500	760	20	240	2	395
		AFS-70S-1-C-E AFS-70S-2-C-E	714	500	800	20	190	2	365
		AFS-75S-1-C-E AFS-75S-2-C-E	764	560	840	20	200	2/3	425

■ Specification table

Type		Fan diameter (mm)	Motor						Air volume (m³/min)	Static pressure (Pa)	Noise (dB(A))	Approx mass (kg)
			Power source	Output (W)	Number of poles (P)	Frequency (Hz)	Allowable current (A)	Starting current (A)				
ALL SUS (Low-temperature)	AFSS-50S	-1	500 3φ200V	1500	4	50		114	95	100	72	57
			500 3φ200V	1500	4	60	8	107	122	100	75	57
		-2	500 3φ200V	1500	4	50	11	114	110	100	72	57
			500 3φ200V	1500	4	60	10	107	140	100	76	57
	AFSS-55S	-1	550 3φ200V	1500	4	50	11	114	105	150	73	65
			550 3φ200V	1500	4	60	8.8	107	140	150	78	65
		-2	550 3φ200V	1500	4	50	11	114	140	150	73	65
			550 3φ200V	1500	4	60	10	107	190	150	78	65
	AFSS-60S	-1	600 3φ200V	1500	4	50	9.5	114	145	150	72	75
			600 3φ200V	1500	4	60	11	107	200	150	74	75
		-2	600 3φ200V	2200	4	50	9.3	114	195	150	74	75
			600 3φ200V	2200	4	60	10.4	107	245	150	78	75
	AFSS-65S	-1	650 3φ200V	1500	4	50		114	165	150	76	79
			650 3φ200V	1500	4	60		107	230	150	77	79
		-2	650 3φ200V	3700	4	50	13	114	245	150	76	79
			650 3φ200V	3700	4	60		107	295	150	79	79
	AFSS-70S	-1	700 3φ200V	2200	4	50	10.5	114	210	150	79	89
			700 3φ200V	2200	4	60	11	107	255	150	83	89
		-2	700 3φ200V	3700	4	50	13	114	285	150	82	89
			700 3φ200V	3700	4	60	16	107	350	150	86	89
	AFSS-75S	-1	750 3φ200V	3700	4	50	15	114	290	200	82	98
			750 3φ200V	3700	4	60	17	107	380	200	85	98
		-2	750 3φ200V	3700	4	50	15	114	330	200	83	98

*Since this is a custom-designed product, the values in the blank will be determined based on the initial product inspection result.

Selection chart

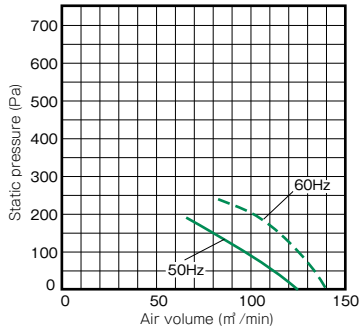
Characteristics under low-temperature (-30°C) specifications

60Hz -----
50Hz ————

ALL SUS(Low-temperature)

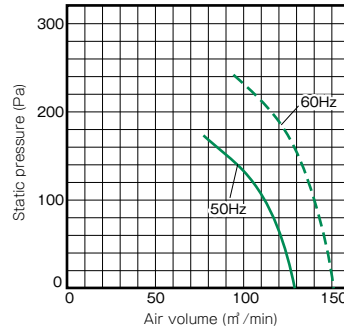
AFSS-50S-1

φ500mm 3-phase 1.5kW 4P 200V 50/60Hz



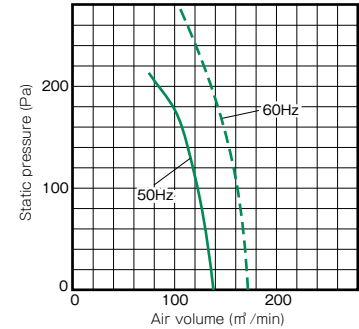
AFSS-50S-2

φ500mm 3-phase 1.5kW 4P 200V 50/60Hz



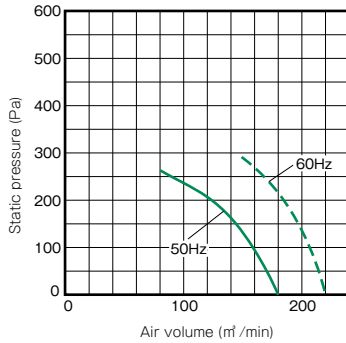
AFSS-55S-1

φ550mm 3-phase 1.5kW 4P 200V 50/60Hz



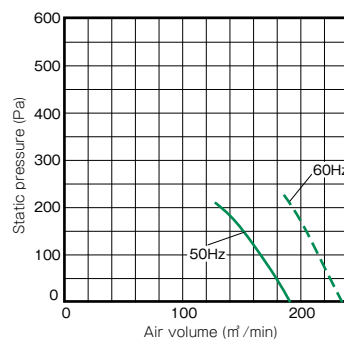
AFSS-55S-2

φ550mm 3-phase 1.5kW 4P 200V 50/60Hz



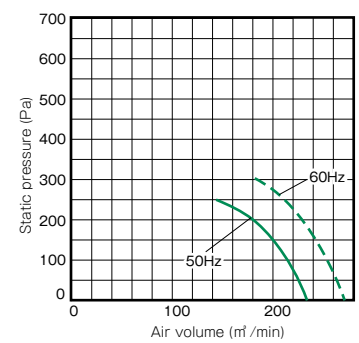
AFSS-60S-1

φ600mm 3-phase 1.5kW 4P 200V 50/60Hz



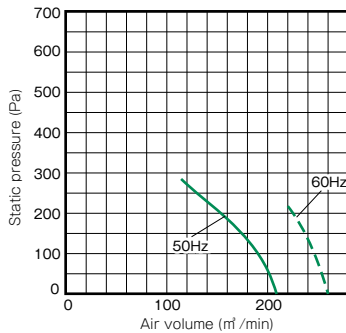
AFSS-60S-2

φ600mm 3-phase 2.2kW 4P 200V 50/60Hz



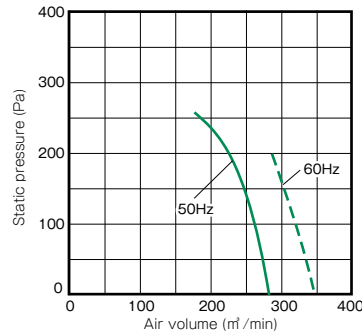
AFSS-65S-1

φ650mm 3-phase 1.5kW 4P 200V 50/60Hz



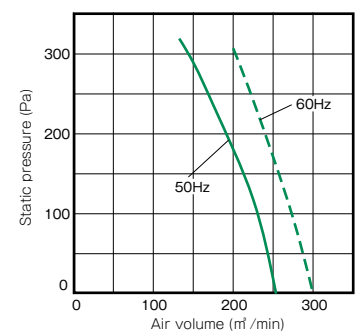
AFSS-65S-2

φ650mm 3-phase 3.7kW 4P 200V 50/60Hz



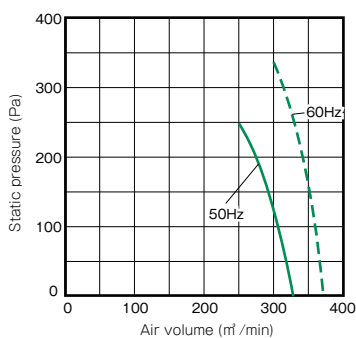
AFSS-70S-1

φ700mm 3-phase 2.2kW 4P 200V 50/60Hz



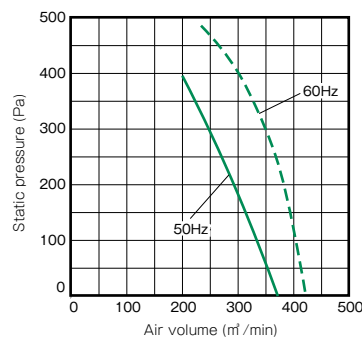
AFSS-70S-2

φ700mm 3-phase 3.7kW 4P 200V 50/60Hz



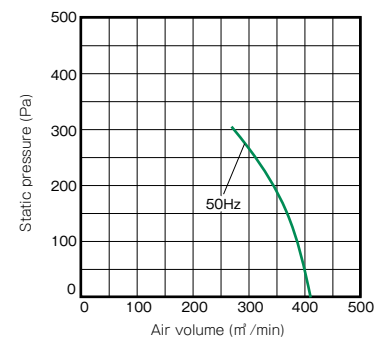
AFSS-75S-1

φ750mm 3-phase 3.7kW 4P 200V 50/60Hz

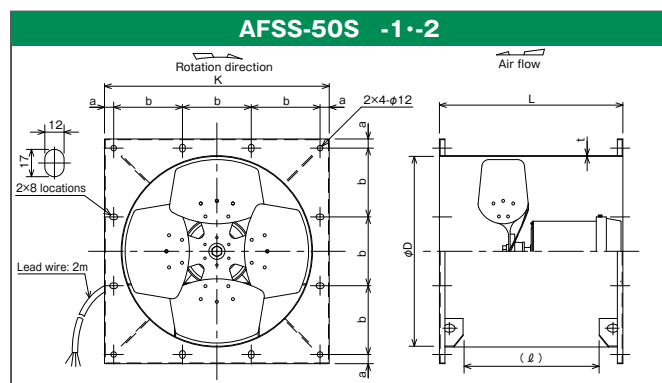


AFSS-75S-2

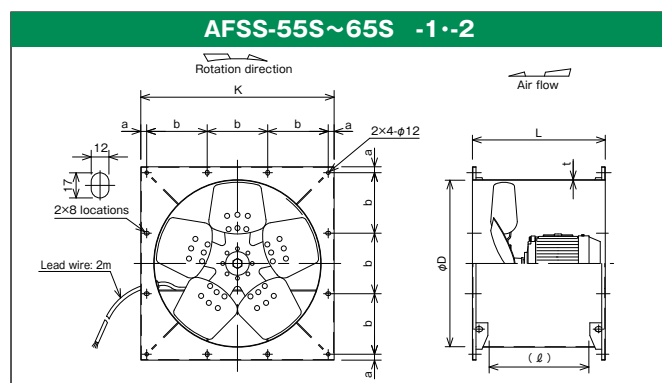
φ750mm 3-phase 3.7kW 4P 200V 50Hz



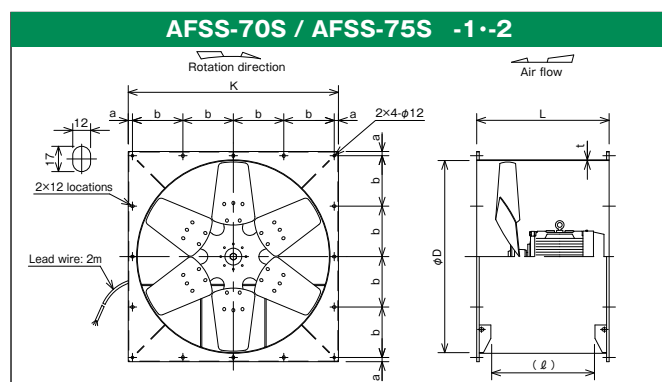
Assembly drawing



* Since the number of blades varies depending on the type, refer only to the outline dimensions.



* Since the number of blades varies depending on the type, refer only to the outline dimensions.



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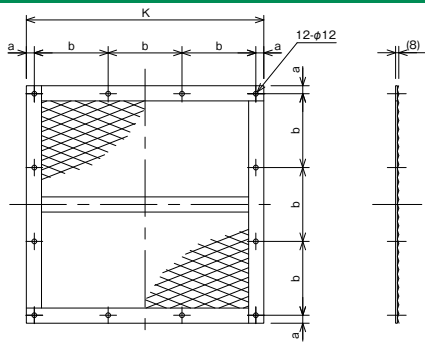
Dimensions

* For blanks, please contact us. (Unit: mm)

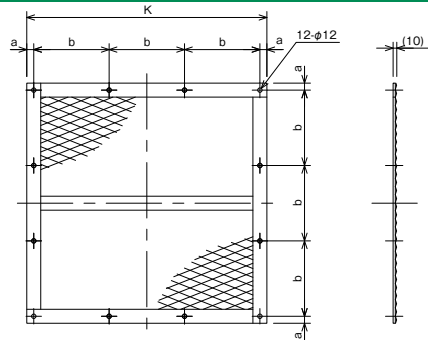
Type	φD	L	K	a	b	t	(ℓ)
AFSS-50S -1~2	514	450	595	20	185	1.5	295
AFSS-55S -1~2	564	450	655	20	205	1.5	345
AFSS-60S -1~2	614	500	700	20	220	2.0	345
AFSS-65S -1~2	664	500	760	20	240	2.0	395
AFSS-70S -1~2	714	500	800	20	190	2.0	365
AFSS-75S -1~2	764	560	840	20	200	2.0	425

Assembly drawing

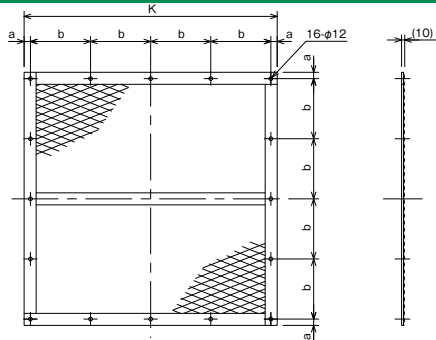
FGN-40~50 / FGNS-40~50



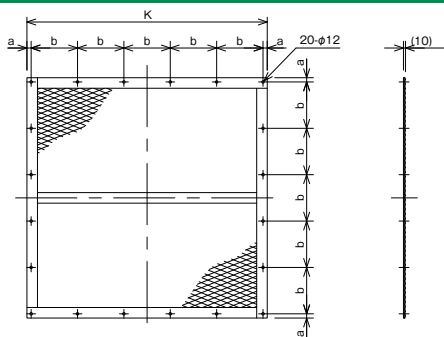
FGN-55~65 / FGNS-55~65



FGN-70~90 / FGNS-70~90



FGN-95~110 / FGNS-95~110



Dimensions

(Unit: mm)

	Type	K	a	b
Steel	FGN-40	490	20	150
	FGN-50	595	20	185
	FGN-55	653	19	205
	FGN-60	698	19	220
	FGN-65	758	19	240
	FGN-70	800	20	190
	FGN-75	840	20	200
	FGN-80	900	20	215
	FGN-85	960	20	230
	FGN-90	1000	20	240
	FGN-95	1040	20	200
SUS	FGN-100	1140	20	220
	FGN-110	1240	20	240
	FGNS-40	490	20	150
	FGNS-50	595	20	185
	FGNS-55	653	19	205
	FGNS-60	700	20	220
	FGNS-65	758	19	240
	FGNS-70	800	20	190
	FGNS-75	840	20	200
	FGNS-80	900	20	215
	FGNS-85	960	20	230
	FGNS-90	1000	20	240
	FGNS-95	1040	20	200
	FGNS-100	1140	20	220
	FGNS-110	1240	20	240

[illegible]





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