



SINCE 1909
JAPAN



Air Moving Equipment



**Compact Axial
Flow Fan**



Mini Sirocco Fan



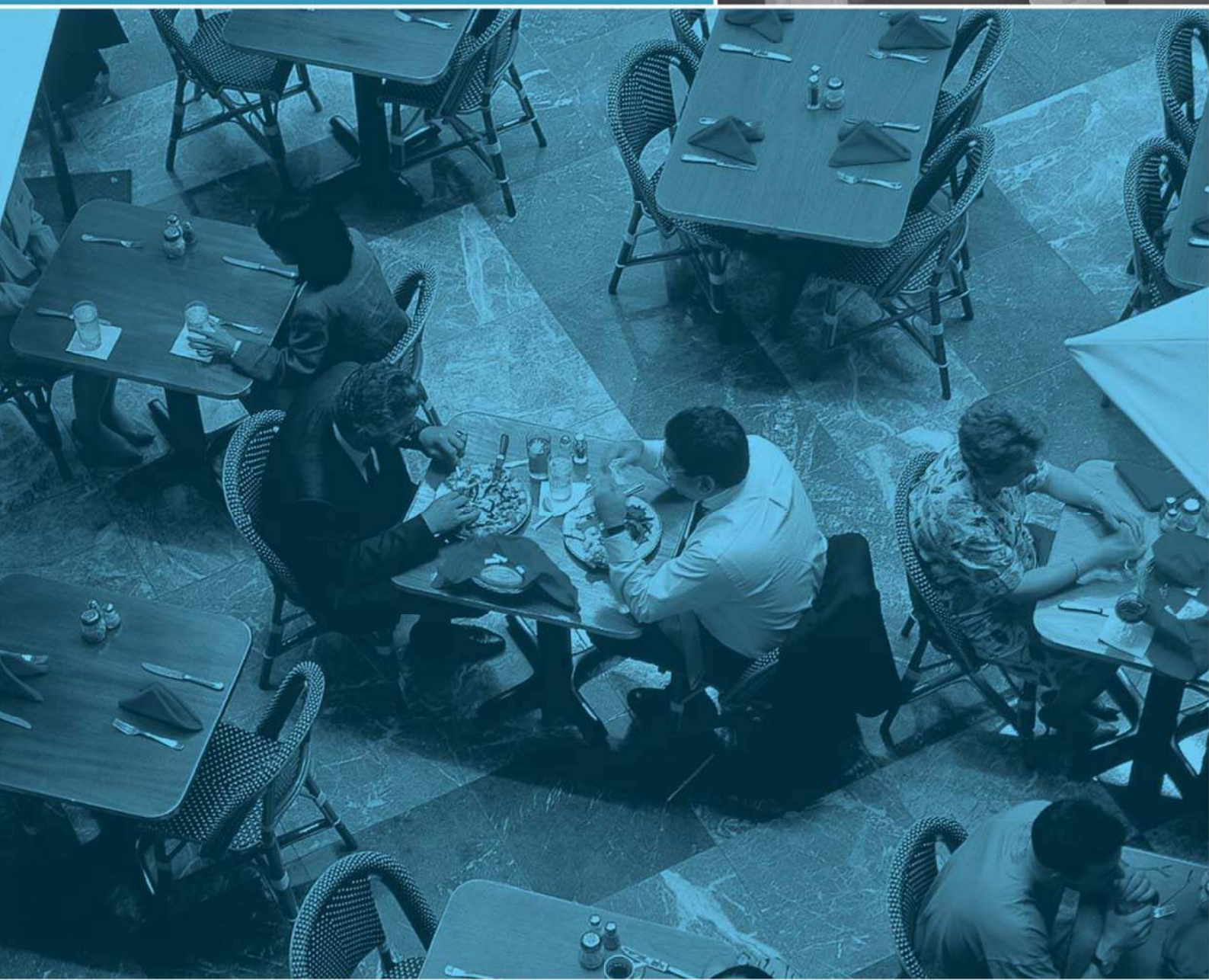
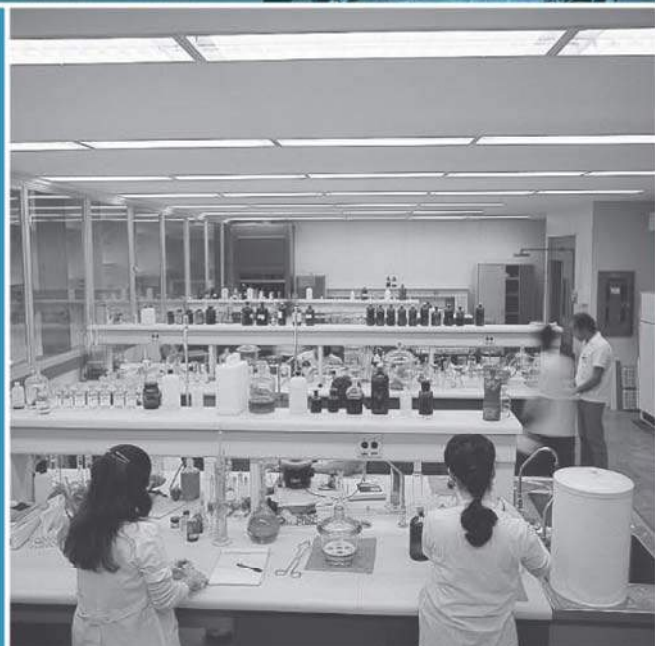
**General Type
Roof Ventilator**



**Spot Type
Roof Ventilator**

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A Comfortable Life and a Clean Environment with KDK Air Moving Equipment



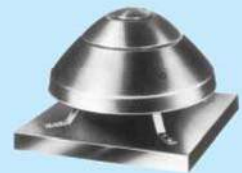
Compact Axial Flow Fan



Mini Sirocco Fan



General Type Roof Ventilator



Spot Type Roof Ventilator

Meeting a wide range of needs from commercial to industrial applications.

Comfortable working or living environment is a common theme in designing a diversity of building where people work, such as factories, offices, restaurants, and schools. One of the key factors in providing a comfortable environment is the circulation of fresh air. It is important to efficiently replace polluted air with fresh air.

As technology advances and production run increases in factory, the problem of polluted air gains attention. There is growing need for the introduction of a more efficient ventilation system. An efficient ventilation system is vitally important in restaurants and offices where exist a lot of sources of air pollution, including cigarette smoke, heat-emitting office equipment, and fouling smell from kitchens, particularly in view of protecting health of people who are gathering or working there.

With a view to comfortable environment as its central theme, KDK integrates its long experience with the state-of-the-art technology in ventilation system.

KDK has developed a diversity of compact air moving equipment that offers excellent performance, compact structure, easy-to install features.

Compact Axial Flow Fan

Lightweight and compact fans designed for commercial ventilation system.



Single Phase

K25DSF2NET
K28DSM2NET
K35DSM2NET
K40DSL2NET
K40DSH2NET
K45DST2NET

Three Phase

K40DTL2BET
K40DTH2BET
K45DTT2BET
K45DTH2BET

Low noise design

The optimal blade design based on the vane theory.

Two speed control

Hi-Lo speed can be selected to meet required specifications.

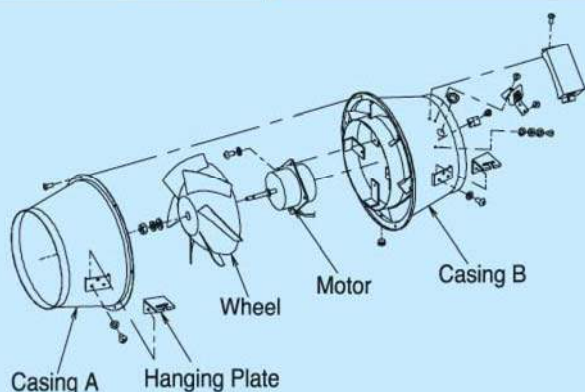
Easy installation

Installability has been improved using T-shape grooved clamps.

Wide product range

Available for both single and three phase. (10 models)

Construction



Main components and materials

Components name	Material	Standard
Casing A	SPCC,SPHC	JIS G 3141 JIS G 3131
Wheel	A5052 PP SPHC	JIS H 4000 JIS K 6921 JIS G 3131
Motor		
Casing B Assy.	SPCC,SPHC	JIS G 3141 JIS G 3131
Hanging plate	SPCC	JIS G 3141

Specification

	MODEL No.	Rated Voltage [V]	Number of Poles	Notch	Air Volume [m³/h]		Current [A]		Input [W]		Noise Level [dB]						Wheel Diameter [cm]	Weight [kg]	Duct Size [mm]
											Side of Body		Inlet Side		Outlet Side				
					50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz			
SINGLE PHASE	K25DSF2NET	220-240V	4	Hi	600	720	0.19	0.17	34	38	41.0	42.0	51.0	54.0	50.5	53.5	25	4.7	Ø200
				Lo	550	650	0.14	0.12	27	29	39.5	41.5	49.0	52.0	48.5	51.5			
	K28DSM2NET	220-240V	4	Hi	1194	1224	0.25	0.28	51	62	44.5	45.5	54.5	55.5	54.0	55.0	28	8.5	Ø250
				Lo	1050	1062	0.24	0.26	55	61	42.0	43.0	52.0	53.0	51.5	52.5			
	K35DSM2NET	220-240V	4	Hi	2016	2154	0.42	0.57	95	131	45.5	46.5	56.5	57.5	56.0	57.0	35	13.0	Ø300
				Lo	1782	1830	0.38	0.50	87	113	43.0	44.0	54.0	55.0	53.5	54.5			
	K40DSL2NET	220-240V	4	Hi	3228	3528	0.94	1.3	204	281	56.0	56.5	68.0	68.5	67.5	68.0	40	20.0	Ø350
				Lo	3084	3186	0.86	1.1	194	245	54.0	54.5	66.0	66.5	65.5	66.0			
SINGLE PHASE	K40DSH2NET	220-240V	4	Hi	3504	4128	1.1	1.8	256	401	55.5	56.5	67.5	68.5	67.0	68.0	40	22.0	Ø350
				Lo	3444	3822	1.0	1.6	233	348	53.5	54.5	65.5	66.5	65.0	66.0			
	K45DST2NET	220-240V	4	Hi	4968	5940	1.9	2.8	428	643	59.5	61.0	69.5	71.0	69.5	71.0	45	37.0	Ø400
				Lo	4206	5790	1.7	2.7	398	615	58.0	60.5	68.0	70.5	68.0	70.5			
	K40DTL2BET	380V	4	Hi	3396	3840	0.48	0.65	241	381	56.0	56.0	68.0	68.0	67.5	67.5	40	18.0	Ø350
				Lo	3330	3660	0.42	0.59	237	334	54.0	54.0	66.0	66.0	65.5	65.5			
	K40DTH2BET	380V	4	Hi	3426	3912	0.57	0.66	250	372	56.0	57.0	68.0	69.0	67.5	68.5	40	19.0	Ø350
				Lo	3264	3666	0.45	0.58	220	331	55.0	56.0	67.0	68.0	66.5	67.5			
THREE PHASE	K45DTT2BET	380V	4	Hi	5004	6000	1.1	1.2	421	638	61.0	63.0	71.0	73.0	71.0	73.0	45	36.0	Ø400
				Lo	4860	5886	0.93	1.1	397	614	60.5	62.5	70.5	72.5	70.5	72.5			
	K45DTH2BET	380V	4	Hi	5454	6522	1.2	1.4	511	758	59.0	65.0	68.5	72.5	68.5	72.5	45	37.0	Ø400
				Lo	5250	5789	1.1	1.3	482	730	58.5	64.5	68.0	72.0	68.0	72.0			

Note: In above table, the values are tested 230V for Single-phase Models, and 380V for Three-phase Models.

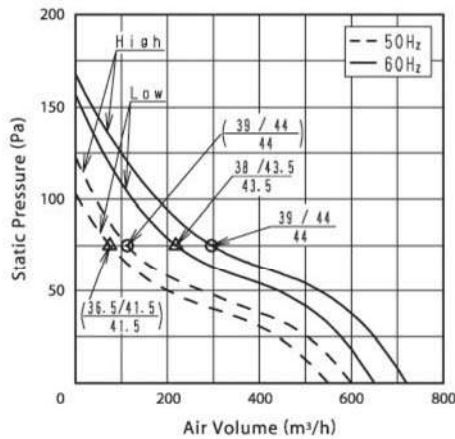
1. The values of air volume are measured at 0 static pressure (Pa) by the chamber method.
2. The values of Current and Input are in the free load condition.
3. The values of noise level are measured at 0 static pressure (Pa) and at the following positions.
(When ducts are connected on both inlet and outlet side.)
Side of fan body : 1.5m apart from the fan body (excluding the noise of outlet side)
Inlet side : 1.5m apart from the inlet of the fan (excluding the noise of outlet side)
Outlet side : 1.5m angle 45° apart from outlet side (excluding the noise of inlet side)
Add 2dB to the values above for the noise levels apart from 1.0 m.
4. Specifications above indicate the values under the condition of normal temperature (20 degrees Celsius).

Use condition:

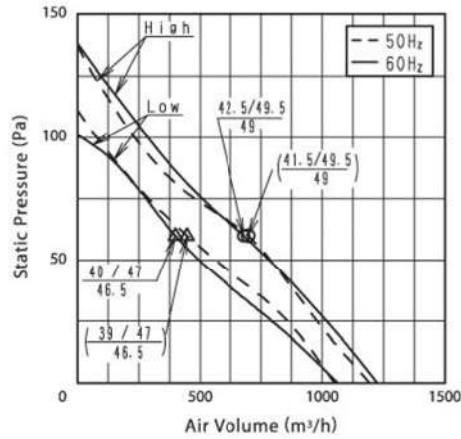
- Use in the following conditions
Handling air and Ambient air : -10 to +40 deg C, relative humidity 85% or less
- Do not use the product in the places such as outdoor (where rain water splashes), where water splashes, steam is always generated, corrosive gas may be generated, or chemicals may be used.
- Do not use the product in the places such as pools or hot springs where the chemicals such as chlorine are used. It has high possibility to cause corrosion in a short term.

Performance Data

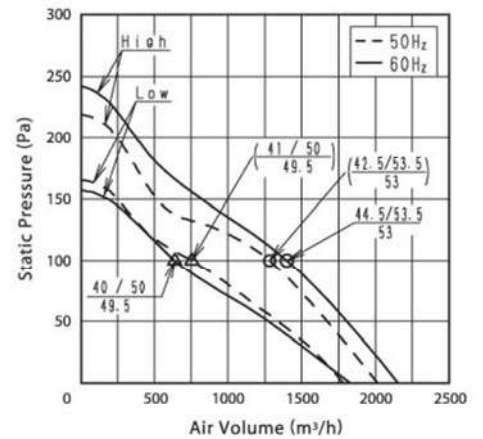
K25DSF2NET



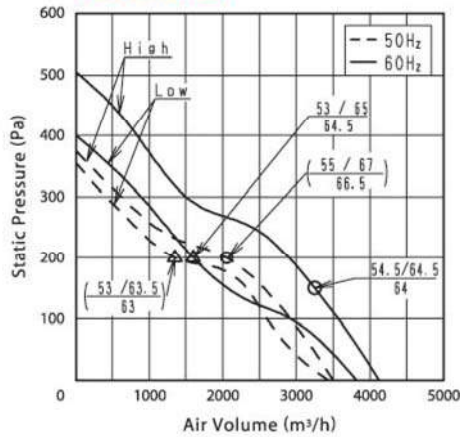
K28DSM2NET



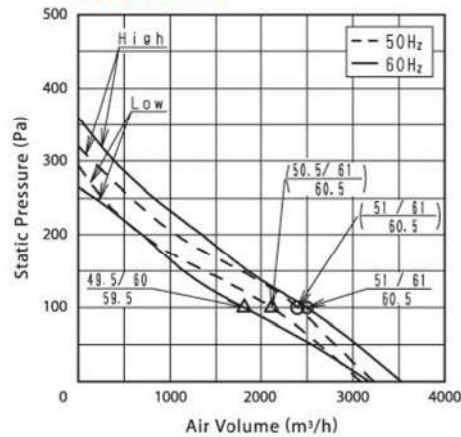
K35DSM2NET



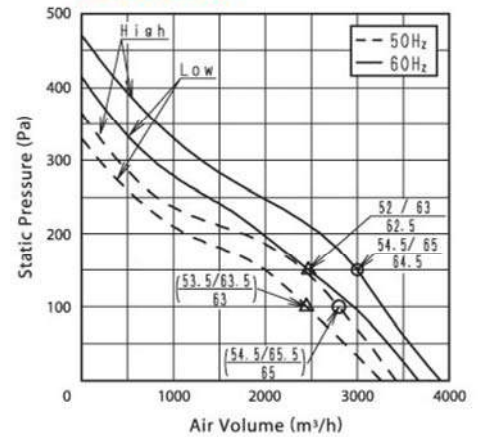
K40DSH2NET



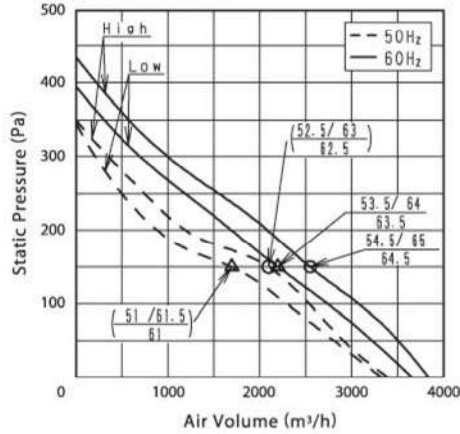
K40DSL2NET



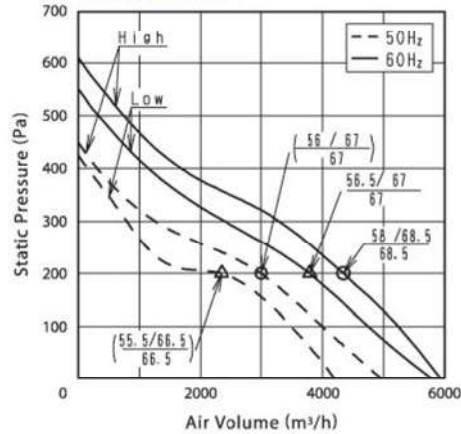
K40DTH2BET



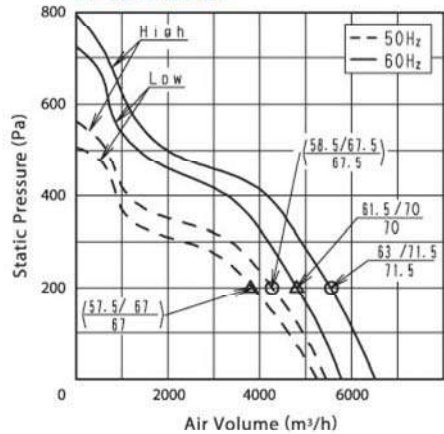
K40DTL2BET



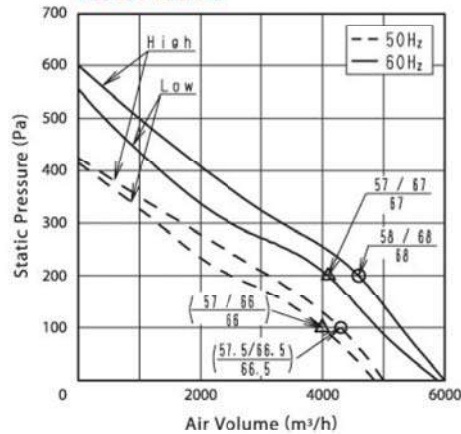
K45DST2NET



K45DTH2BET



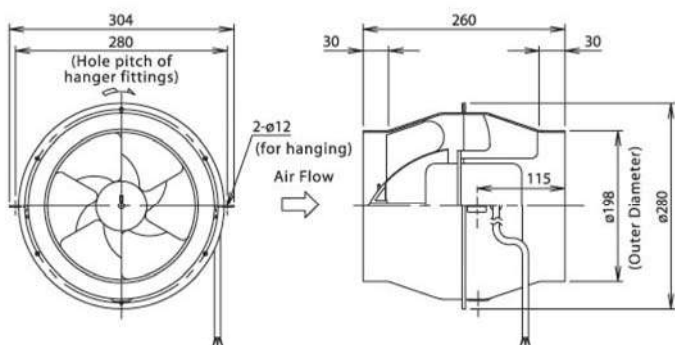
K45DTT2BET



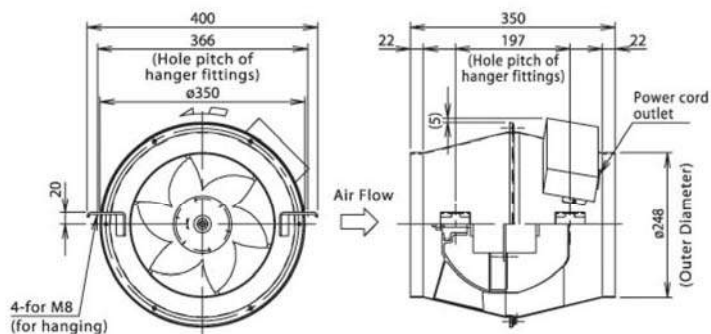
Dimension

Dimension : mm

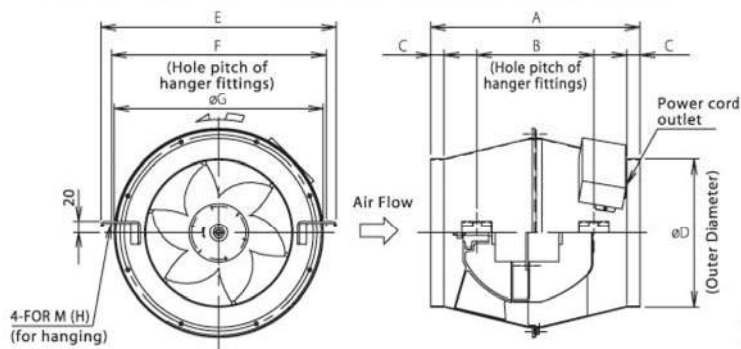
K25DSF2NET



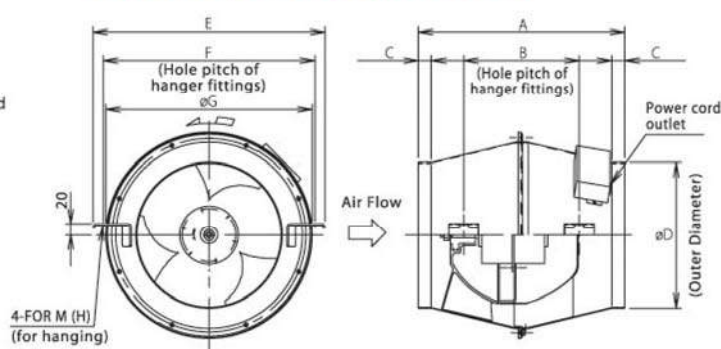
K28DSM2NET



K35DSM2NET, K40DSH2NET, K40DSL2NET, K40DTH2BET, K40DTL2BET



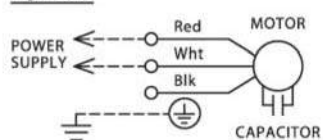
K45DST2NET, K45DTH2BET, K45DTT2BET



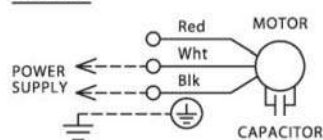
MODEL No.	A	B	C	D	E	F	G	H
K35DSM2NET	410	206	21.5	298	460	426	415	8
K40DSH2NET	480	206	26	347	525	491	480	8
K40DSL2NET	480	206	26	347	525	491	480	8
K40DTH2BET	480	206	26	347	525	491	480	8
K40DTL2BET	480	206	26	347	525	491	480	8
K45DST2NET	540	218	25.5	395	588	554	546	10
K45DTH2BET	540	218	25.5	395	588	554	546	10
K45DTT2BET	540	218	25.5	395	588	554	546	10

K25DSF2NET

High-notch

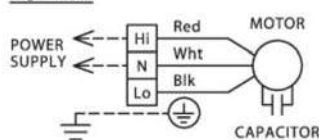


Low-notch

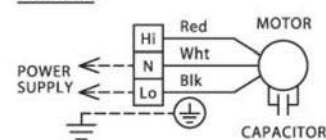


K28DSM2NET, K35DSM2NET, K40DSL2NET, K40DSH2NET, K45DST2NET

High-notch

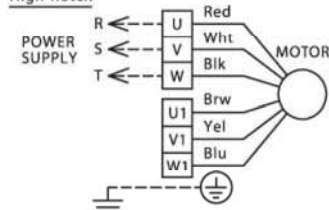


Low-notch

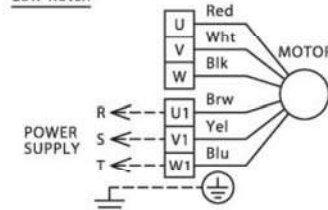


K40DTL2BET K40DTH2BET K45DTT2BET K45DTH2BET

High-notch



Low-notch



Mini Sirocco Fan

General purpose fan at a relatively high static pressure and of a large air volume.



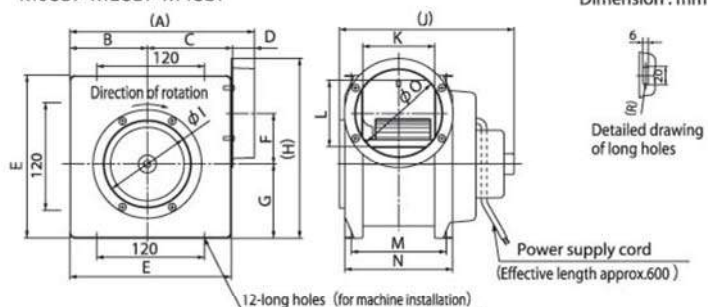
Single Phase

K10CG1
K12CG1
K14CG1
K16CG1
K17CG1
K19CG1
K21CG1

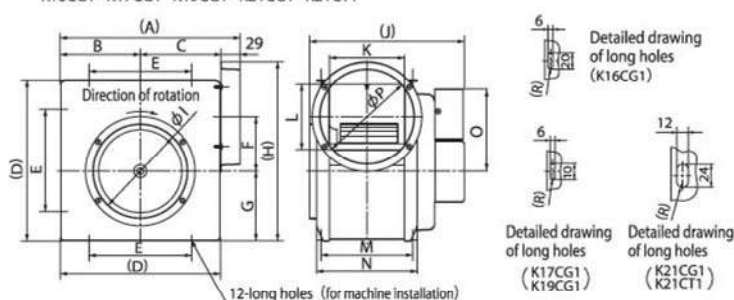
Three Phase

K21CT1

K10CG1 • K12CG1 • K14CG1



K16CG1 • K17CG1 • K19CG1 • K21CG1 • K21CT1



■ Compact design

Newly designed casing resulted very compact body.

■ Low noise design

High-performance sirocco fan achieved minimum noise level.

■ Uniform duct size

Duct size at both suction and discharge port are identical to improve installability.

■ Adjustable outlet direction

Outlet direction is adjustable to vertical or horizontal position.

MODEL No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
K10CG1	206	86	95	24	180	56	82	199	98	199	80	74	106	120	98	-
K12CG1	261	112	119	29	230	76	100	261	148	230	105	98	131	145	148	-
K14CG1	281	125	126	250	160	85	108	279	148	237	117	102	143	157	128	148
K16CG1	331	151	150	300	160	106	130	346	198	310	165	116	187	205	142	198
K17CG1	361	166	165	330	200	121	145	378	198	360	190	110	226	250	161	198
K19CG1																
K21CG1																
K21CT1																

MODEL No.	APPLICABLE ACCESSORIES
K10CG1	MGX100K, MCX100K, VGX100K, VCX100K
K12CG1	
K14CG1	MGX150K, MCX150K, VGX150K, VCX150K
K16CG1	

Performance data

MODEL No.		INPUT [W]		FAN SPEED [min-1]		AIR VOLUME [m³/h]		Noise Level [dB]						IMPELLER DIAMETER [cm]	WEIGHT [kg]	SUCTION DUCT SIZE [mm]	DISCHARGE DUCT SIZE [mm]	
								Casing side		Suction side		Discharge side						
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz					
SINGLE PHASE	K10CG1	11	13	980	970	144	143	32	32	38	38	38	38	10	3.1	ø100	ø100	
	K12CG1	21	22	760	725	258	242	34	32	39	38	39	38	12	3.6	ø150	ø150	
	K14CG1	30	40	930	870	308	284	39	36	44.5	41.5	44.5	41.5	12	3.8	ø150	ø150	
	K16CG1	Hi	49	59	1080	1060	495	470	43.5	42.5	50	49	50	49	15	5.3	ø150	ø150
		Lo	41	40	875	805	365	335	38	36	44.5	42.5	44.5	42.5				
	K17CG1	Hi	87	95	920	850	763	722	46	44.5	51	49	51	49	18	8.8	ø200	ø200
		Lo	74	79	815	730	640	593	42.5	40	47	45	47	45				
	K19CG1	Hi	117	143	1110	1100	947	931	50.5	50	55.5	55	55.5	55	18	9.4	ø200	ø200
		Lo	109	127	1030	985	821	791	49	48	54	53	54	53				
	K21CG1	Hi	240	340	1325	1430	1420	1540	57	59	61	63	61	63	20	15	ø200	ø200
Lo		220	300	1230	1180	1260	1230	56	54	59.5	58.5	59.5	58.5					
THREE PHASE	K21CT1	Hi	253	370	1355	1485	1450	1590	57.5	59.5	61.5	63.5	61.5	63.5	20	14.5	ø200	ø200
		Lo	177	228	1070	1030	1090	1020	51.5	50	55.5	54	55.5	54				

Note:

1. Power consumption is expressed as open value.

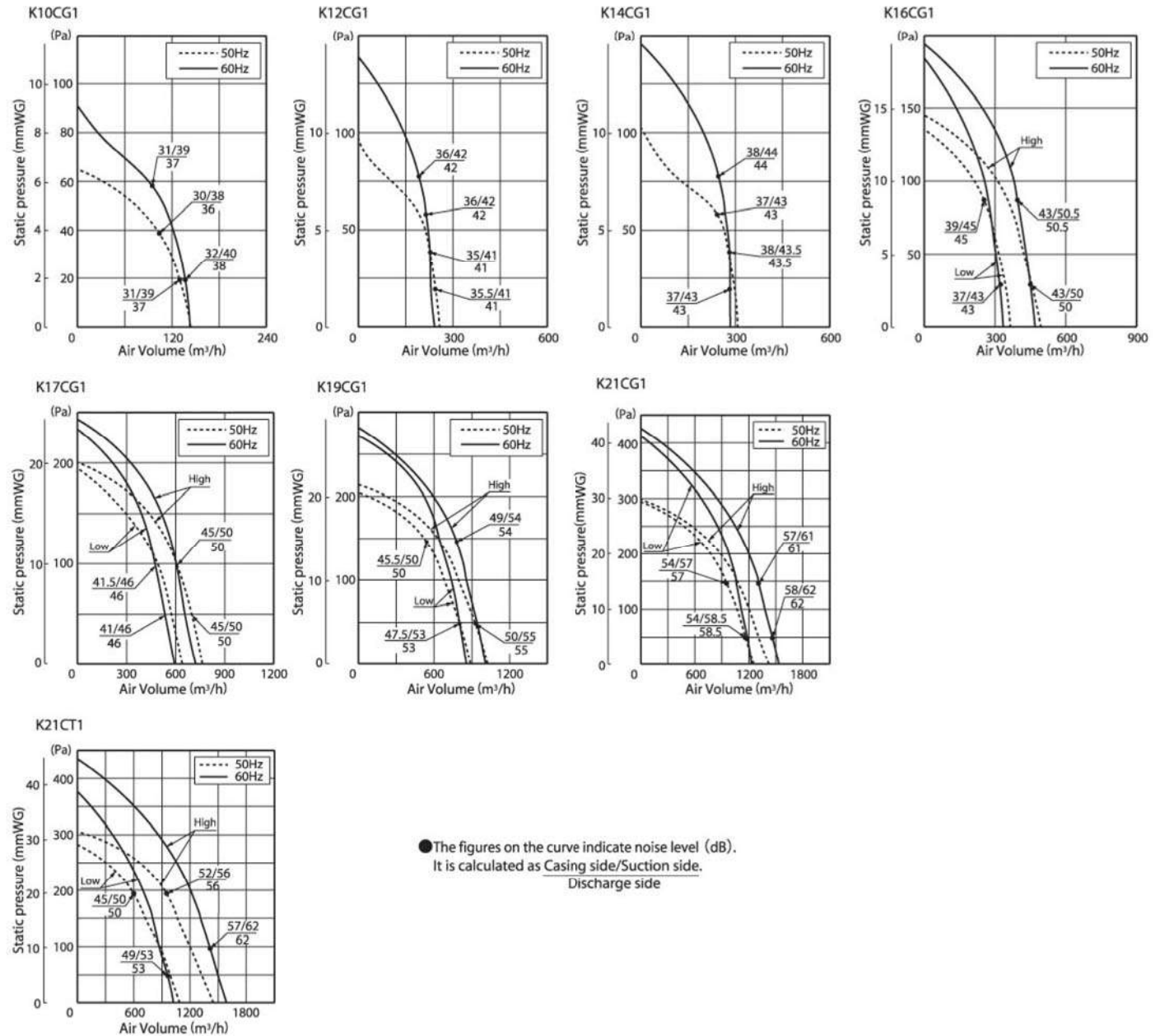
2. Air volume is measured using the Chamber method (JIS B 8330 or JIS C 9603) at 0Pa static pressure.

3. Noise : Suction side - Noise at 1.5m at suction side. Casting side - Noise at 1.5m on the side of a machine body. Discharge side - Noise at 1.5m orthogonally at discharge side.

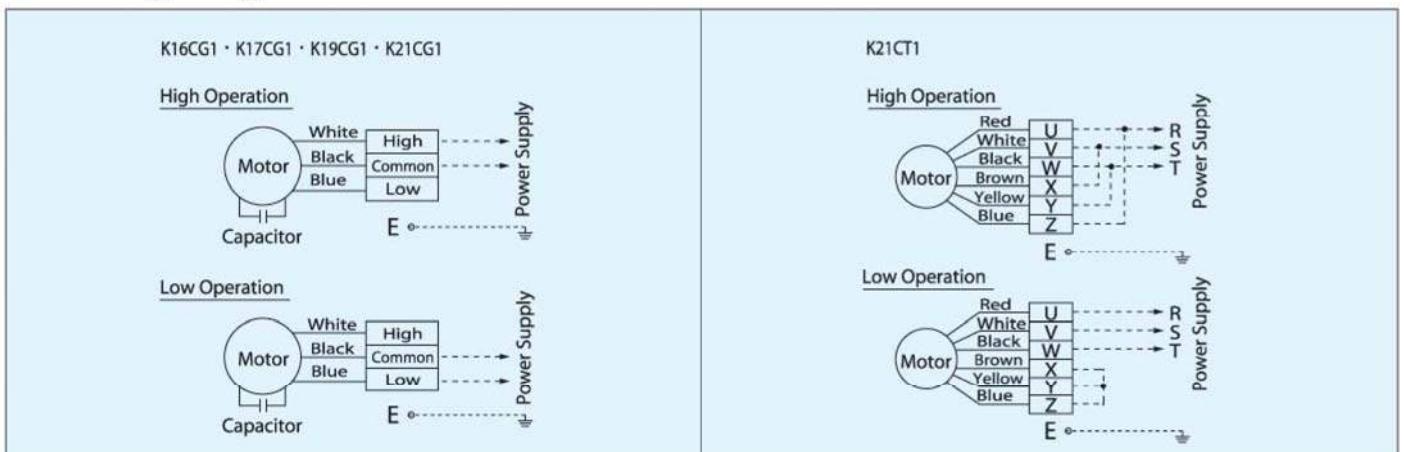
Cautions:

- Don't use it for ventilation at a site generating heat, oily smoke, steam and/or moisture. (Environmental condition : -10°C~+40°C, relative humidity below 85%)
- Install a door 600x600mm or more for maintenance purpose.
- Install a leak breaker or a motor breaker on the source site. A control panel such as a contact switch relay is required for three phase power source.
- In cold air supply to indoor during winter and at any other occasion susceptible to dew drop, heat insulation is required.
- It is recommended to use a commercially available filter at the suction side to avoid dust and/or oil waste attachment on a blade.
- Install it on a horizontal direction.
- Do not perform parallel operation of more than one unit on a switch, for it may result in motor failure.

Performance curve



Wiring Diagram



Accessories

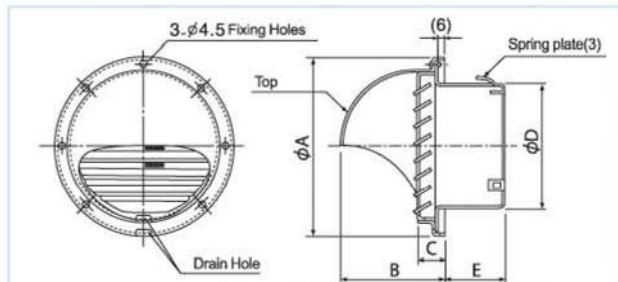
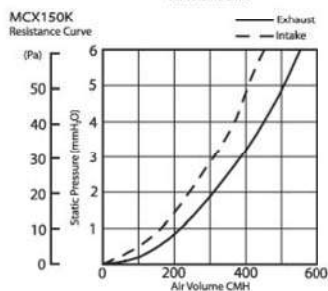
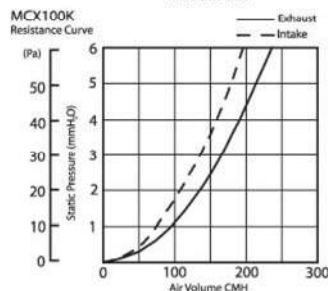
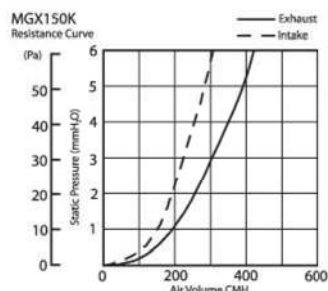
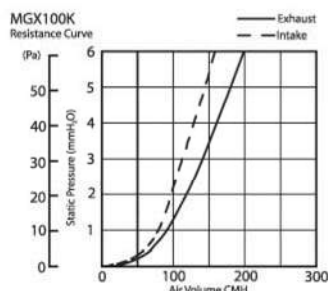
MGX100K / MGX150K MCX100K / MCX150K

Pipe Hood With Net

Pipe Hood Without Net



- High strength - adopt 0.5mm thickness SUS 304 stainless steel.
- Excellent anti-rust capability - hood part coated with metallic silver paint prevent oxidation of material.
- Easy installation - 3 pcs of spring clip facilitate duct / pipe connection.
- 2.5x2.5mm net keep out ingress of small particles and insects from outside (MGX100K, MGX150K)
- It is recommended to use pipe hood with net at intake terminal while without net at exhaust.



MODEL No.	A	B	C	D	E
MGX100K	141	79	20	97	48
MGX150K	190	106	23	147	53
MCX100K	141	79	20	97	48
MCX150K	190	106	23	147	53

MODEL No.	Diameter of Applicable Pipe (mm)	Material	Dimension of Net (mm)	Applicable model
MGX100K	100	Stainless Steel	2.5x2.5	K10CG1
MGX150K	150	Stainless Steel	2.5x2.5	K12CG1, K14CG1, K16CG1
MCX100K	100	Stainless Steel	-	K10CG1
MCX150K	150	Stainless Steel	-	K12CG1, K14CG1, K16CG1

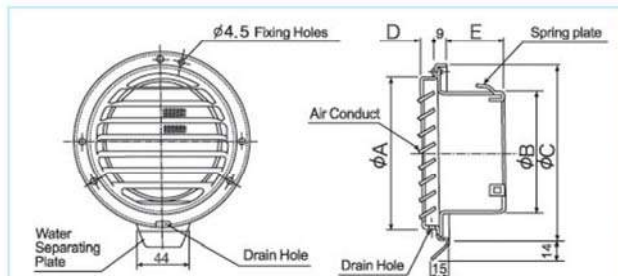
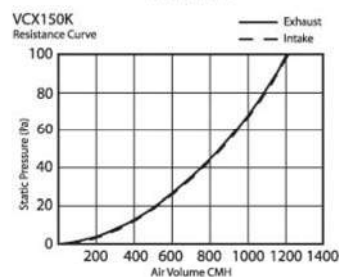
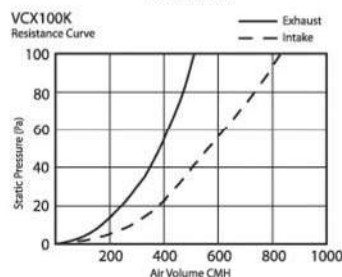
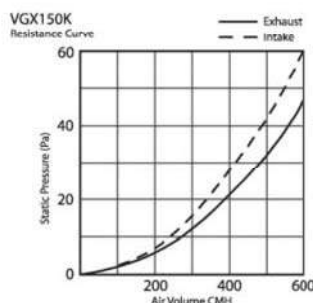
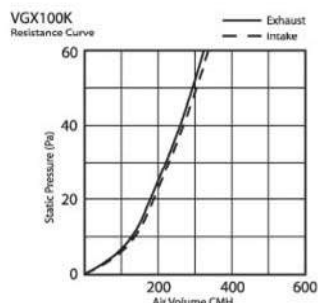
VGX100K / VGX150K VCX100K / VCX150K

Vent Cap With Net

Vent Cap Without Net



- High strength and excellent anti-rust capability - adopt 0.5mm thickness SUS 304 stainless steel.
- Easy installation - 3 pcs of spring clip facilitate duct / pipe connection.
- 2.5x2.5mm net keep out ingress of small particles and insects from outside (VGX100K, VGX150K)
- It is recommended to use pipe hood with net at intake terminal while without net at exhaust.



MODEL No.	A	B	C	D	E
VGX100K	120	97	145	13	47
VGX150K	169	147	195	18	52
VCX100K	120	97	145	13	47
VCX150K	169	147	195	18	52

MODEL No.	Diameter of Applicable Pipe (mm)	Material	Dimension of Net (mm)	Applicable model
VGX100K	100	Stainless Steel	2.5x2.5	K10CG1
VGX150K	150	Stainless Steel	2.5x2.5	K12CG1, K14CG1, K16CG1
VCX100K	100	Stainless Steel	-	K10CG1
VCX150K	150	Stainless Steel	-	K12CG1, K14CG1, K16CG1

Roof Ventilator

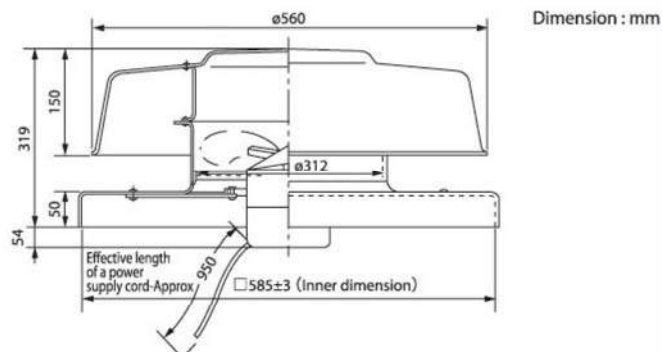
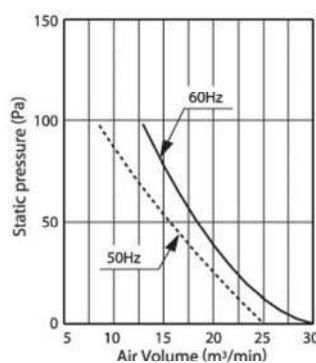
For general ventilation



K30SQK

- Light weight and long durability
- Corrosion-resistant aluminum construction
- Large air volume and low noise level
- Smart design suitable for any building

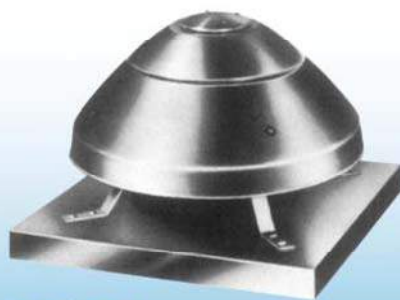
K30SQK



Performance data

MODEL No.	Wheel dia [cm]	No. of Phase	Motor specification			Noise [dB(A)]				Air flow rate at each static pressure [m³/min]							
			Rated Volatage [V]	Number of poles [P]	Output [kW]	Suction 1.5m		Discharge 1.5m		50Hz				60Hz			
						50Hz	60Hz	50Hz	60Hz	0	50	100	150	0	50	100	150
K30SQK	30	1ø	200-240	4	0.07	54	56	49	52	25	15	9	-	30	18	12	-

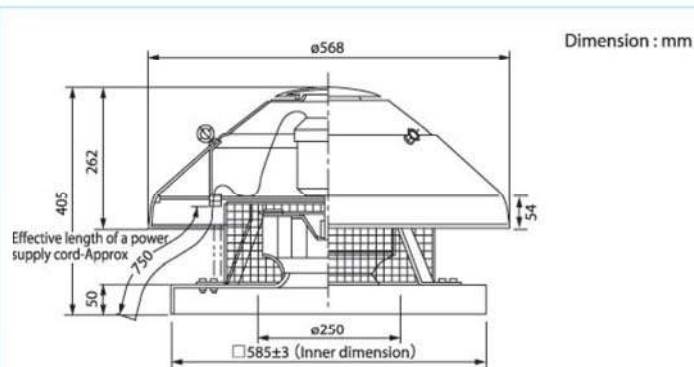
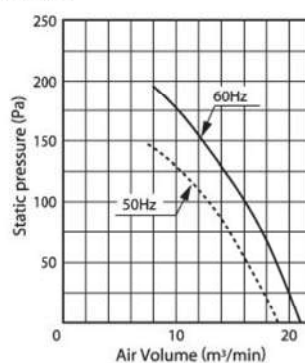
For spot ventilation



K25RSF

- Corrosion-resistant aluminum construction
- Turbo fan is used to withstand static pressure
- Sturdy and efficient construction
- Bird screen to prevent birds flying in

K25RSF



Performance data

MODEL No.	Wheel dia [cm]	No. of Phase	Motor specification			Noise [dB(A)]				Air flow rate at each static pressure [m³/min]													
			Rated Volatage [V]	Number of poles [P]	Output [kW]	Suction 1.5m		Discharge 1.5m		50Hz						60Hz							
						50Hz	60Hz	50Hz	60Hz	0	50	100	150	200	250	0	50	100	150	200	250		
K25RSF	25	1ø	200-240	4	0.075	58	62	60	64	19	16.5	13	7.5	–	–	21	19	16	13	8	–		

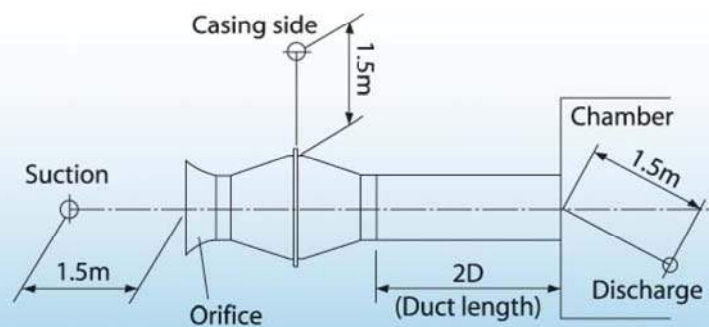
GENERAL INFORMATION

(Compact axial flow fan and mini sirocco fan)

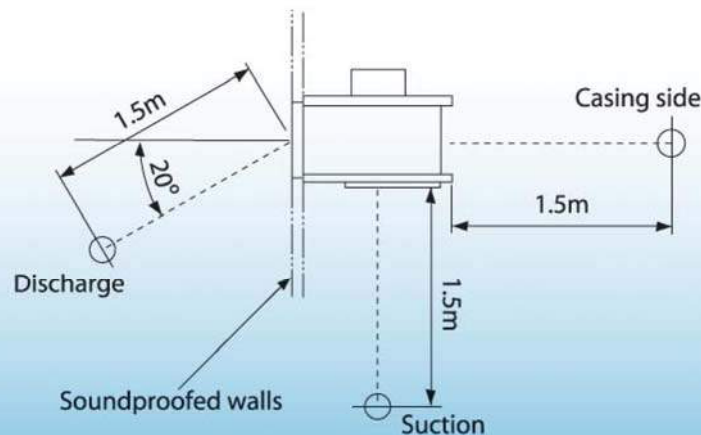
1) Test Standard

- Air volume-static pressure characteristic is measured according to testing method for fans and blowers (JIS B 8330 or JIS C 9603).
- Noise characteristic is measured according to our internal standard as described below.

Compact axial flow fan



Mini sirocco fan



2) General notes

1. Values in the specification table are specified at the static pressure of 0Pa.
2. The values of electric characteristic have an allowance of $\pm 15\%$ for 100W or less and that of $\pm 10\%$ for 100W or more.
3. The values of noise characteristic have an allowance of $\pm 5\text{dB}$.
4. All fans should be used at the ambient temperature ranging from -10°C to $+40^{\circ}\text{C}$ with RH of 85% or less.
5. Do not use it for ventilation at a site generating heat, oily smoke, steam and /or moisture.
6. Install a leak breaker or a motor breaker on the power source site. A control panel such as a contact switch relay is required for three phase power source.
7. In cold air supply to indoor during winter and at any other occasion susceptible to dew drop, heat insulation is required.
8. It is recommended to use a commercially available filter at the suction side to avoid dust and/or oil waste attachment on a blade.
9. Install it on a horizontal direction. Do not install it upside down or vertically. (for compact axial flow fan)
10. Do not perform parallel operation of more than one unit on a switch, for it may result in motor failure.
11. Make sure that capacity and specifications of change-over switch can meet the electric characteristic of fans when Hi/Lo speed control switch is used.



SINCE 1909
JAPAN

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Actual colors may vary slightly from those shown. Specifications are subject to change without prior notice.

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