

General Feature

▲ For DC Motor Series, Super Quiet Series and Standard Series



1 **Long Life**

- HP (Half Pitch) motor incorporated with well lubricated ball bearings, temperature rise is reduced that prolong motor lifetime and product durability.

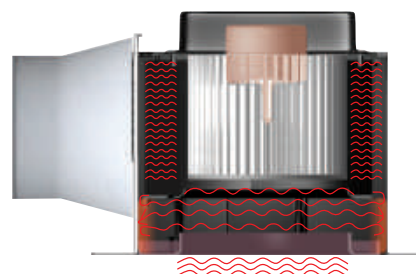
2 **Highly Efficient**

- Taper blade design effectively controls the turbulence surrounding the blade. Strong and smooth ventilation performance is achieved and noise level is reduced, by whole of the blade.
- Seam-processed frame ensures strength and hermetic sealing of the product.
- Reverse flow prevention shutter results in further improvement of air tightness.

3 **Super Low Noise**

- Distinctive structure of "Double Orifice" minimizes the transmission of noise from the fan and motor to exterior. This technology further reduces the operation noise to incredibly low level by "Resonance-Noise-Absorption" operation, which creates a tranquillity and silent environment for your life.

* Except Standard Series



4 **Easy Installation**

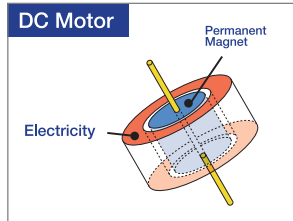
- Wiring of power cord to product is pre-installed, just connect the cord to power supply for operation.
- * Except Standard Series
- Cassette type discharge adaptor facilitating installation of the product, as well as duct connecting work.
 - Spring-clip louver allows convenient installation and removal of louver.

Feature of DC Motor Series

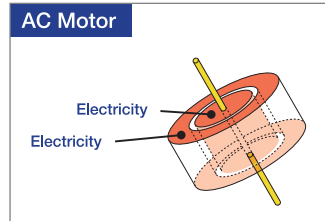
Energy Saving - DC Motor

Consumption Reduction

These fans are adopted with Direct Current (DC) Motor to reduce power consumption in order to save energy. Temperature rise of DC motor is comparatively lower than AC (Alternating Current) motor that lifetime of DC motor is longer than AC motor accordingly.



Stator uses electrical magnet while rotor uses permanent magnet



Both stator & rotor use electrical magnet

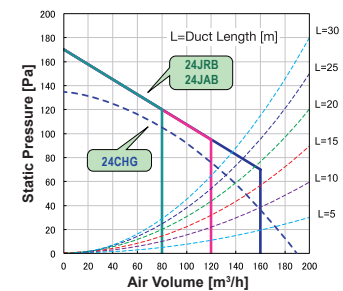
	24JRB	24CHG
Motor Type	DC	AC
Static Pressure [Pa]	51	51
Air Volume [m³/h]	160	129
Consumption at 51 pa [W]	15	22
Energy Efficiency [m³/h / Watt]	10.6	5.8

Note : Values in table is at 220V 60Hz.

Air Flow - Constant Output

Intelligent Technology

These fans are equipped an intelligent technology, by which the fans perform at a constant airflow regardless of elbows and factors that affect the performance. Basically, when the fan faces static pressure, its speed is automatically increased to ensure the desired air flow and allows the fan to perform as rated.



Note : Values at 220V 60Hz. Data for reference only.

Delay Timer - 15 minutes

Convenience

These fans are equipped with an Off-delay Timer which is pre-set at 15 minutes. As the fan is switched off or without any motion detected after the pre-set time, it will return to the pre-set low air volume level.

Air Volume - 4 Variables

High Flexibility

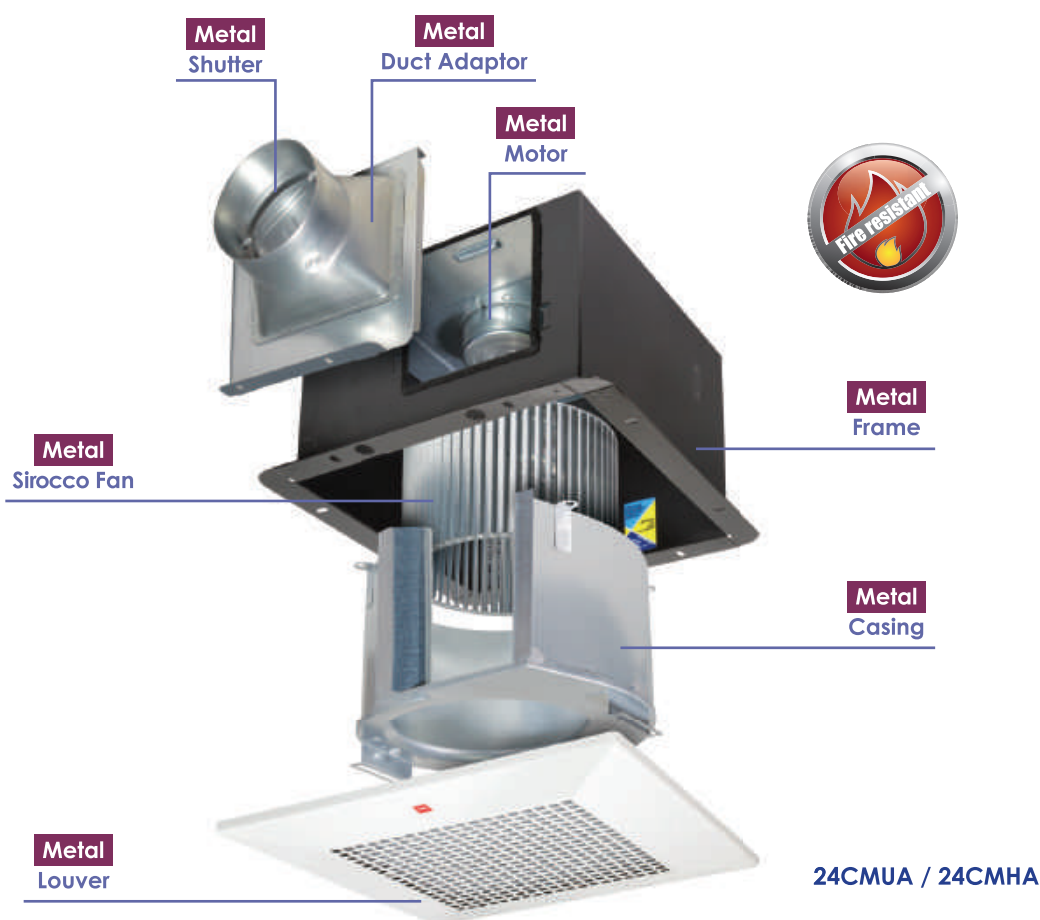
These fans are equipped with Variable Speed Control that allows the fans to run at a pre-set lower level of 0, 80, 120, 160m³/h, then be elevated to a maximum of 160m³/h when the switch is turned on, or activated via the Motion Sensor.

Note: m³/h = CMH (cubic meter per hour)



Human Motion 24JRB			
Switch Activate 24JAB			
Timer Pre-set 15 minutes	Pre-set Low Speed Running (0, 80, 120, 160m³/h)	High Level Operation at 160 m³/h Delay Timer Operation 15 Minutes	
Ventilation Type	Whole House Ventilation	Spot Ventilation	
			Pre-set Low Speed Running (0, 80, 120, 160m³/h)
			Whole House Ventilation

Feature of Metal Series



High Performance

- Sirocco fan sustains high static pressure induced by long duct and reduces noise level
- Unique seam-processed casing ensures strength and hermetic sealing
- Reverse flow prevention shutter results in further improvement of air tightness

Safe

- Motor with thermal cut-off fuse prevents fire induced by overheat
- Metallic structure within air stream provides extra safety against fire*

Easy Installation & Maintenance

- Detachable duct adaptor makes installation simply
- Spring-clip louver allows easy removal for cleaning

Durable

- Painted steel frame enhances anti-rust capability
- HP (Half-pitch) motor and ball bearing enables continuous operation for years

* There is the possibility of spreading fire throughout the building or the areas served via the ducts of ventilation systems. Metallic structure can reduce the fire risk spread to other area from the fire affected compartment through the ducting.

Ceiling Mount Type Ventilation Fan

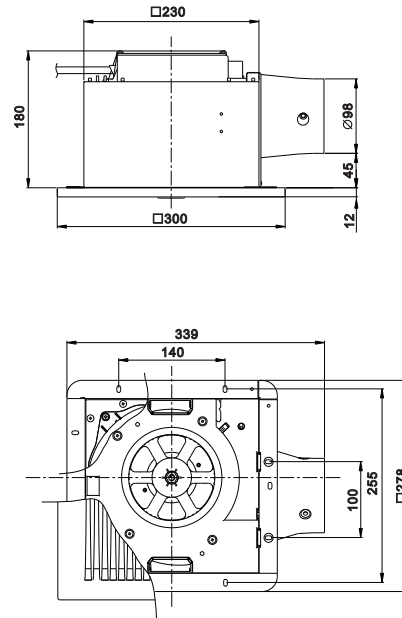


24JRB

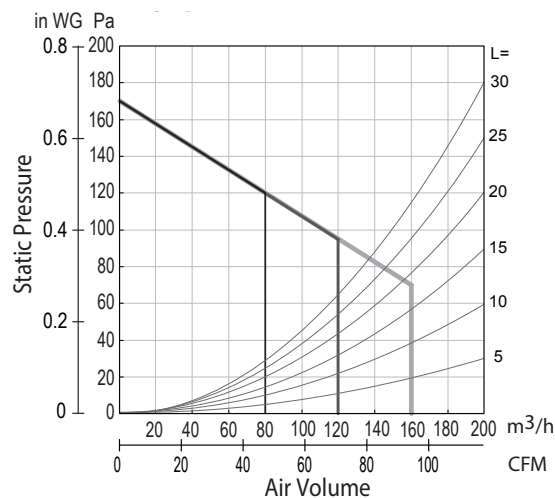
- DC (Direct Current) motor
- Auto operation by motion sensor
- Constant airflow (sustainable to static pressure up to 63 Pa)
- 3 air volume / Stop selectable at low notch
- 15-minute off-delay timer
- Well lubricated bearing for long life operation
- Resonance-noise-absorption structure for super low noise
- Sirocco fan with taper blade controls air turbulence effectively
- Reverse flow prevention shutter
- Pre-installed power cord

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage			Air Volume		Consumption	RPM	Noise	Weight	Installation Space	Duct Size
	[V]	[Hz]		[m³/h]	[CFM]						
24JRB	220-240	50/60	Hi	160	94	8	742	31	2.9	240 x 240	ø100
				160	94	8	742	31			
			Lo	120	71	5.2	556	26			
				80	47	3.6	441	20			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance



DC Motor Series

Ceiling Mount Type Ventilation Fan



24JAB

DC (Direct Current) motor

Constant airflow (sustainable to static pressure up to 63 Pa)

3 air volume / Stop selectable at low notch

15-minute off-delay timer

Well lubricated bearing for long life operation

Resonance-noise-absorption structure for super low noise

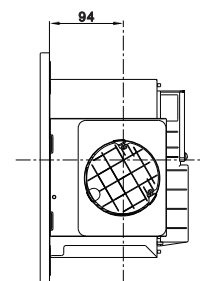
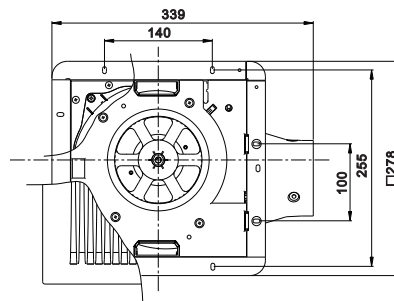
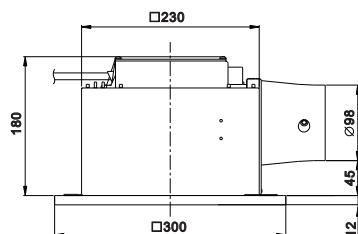
Sirocco fan with taper blade controls air turbulence effectively

Reverse flow prevention shutter

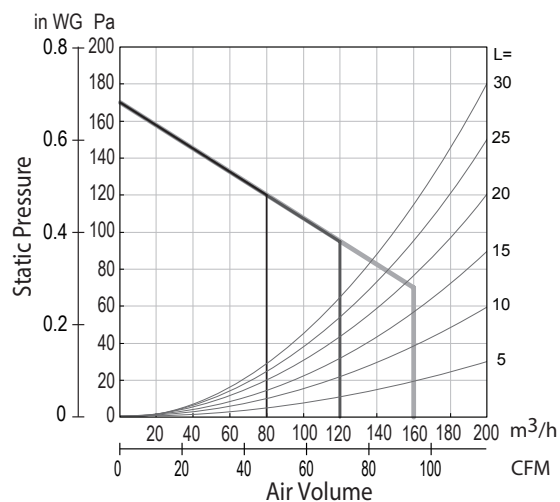
Pre-installed power cord

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage			Air Volume		Consumption	RPM	Noise	Weight	Installation Space	Duct Size
	[V]	[Hz]		[m³/h]	[CFM]						
24JAB	220-240	50/60	Hi	160	94	8	742	31	2.9	240 x 240	ø100
				160	94	8	742	31			
			Lo	120	71	5.2	556	26			
				80	47	3.6	441	20			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

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Super Quiet Series

Ceiling Mount Type Ventilation Fan



**17CUG
17CUGA**

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Resonance-noise-absorption structure for super low noise

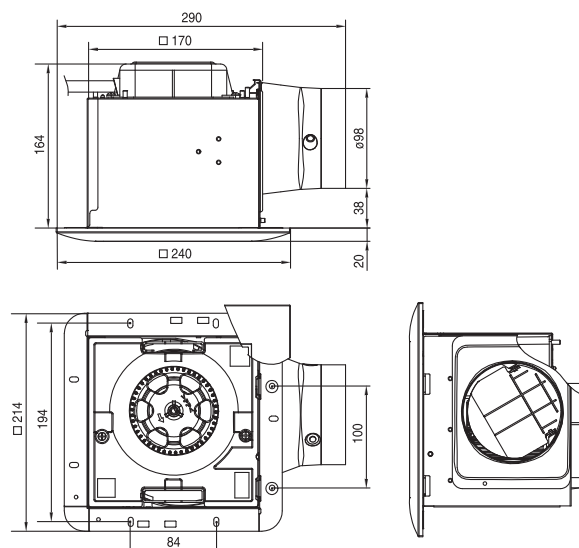
Sirocco fan with taper blade controls air turbulence effectively

Reverse flow prevention shutter

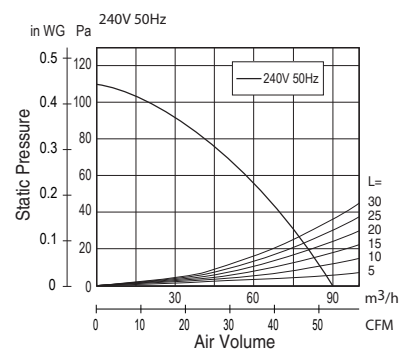
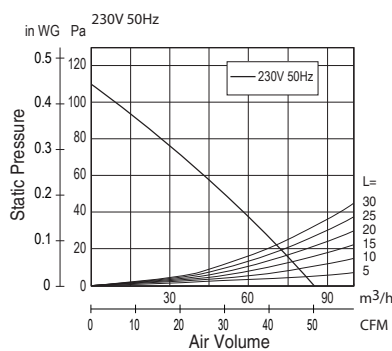
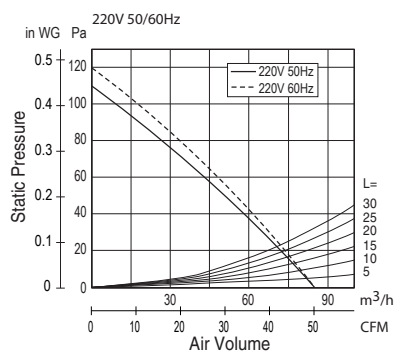
Pre-installed power cord

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]	Duct Size [mm]
	[V]	[Hz]	[m³/h]	[CFM]						
17CUG / 17CUGA	220	50	85	50	8.5	750	23.5	1.9	177 x 177	ø100
		60	85	50	10	770	26			
	230	50	85	50	9.5	775	26			
	240	50	90	53	10.5	800	27			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

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- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Super Quiet Series

Ceiling Mount Type Ventilation Fan



24CUG

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Resonance-noise-absorption structure for super low noise

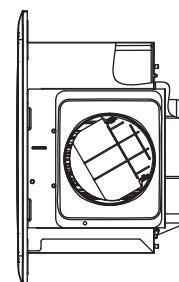
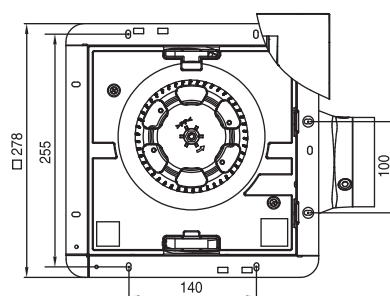
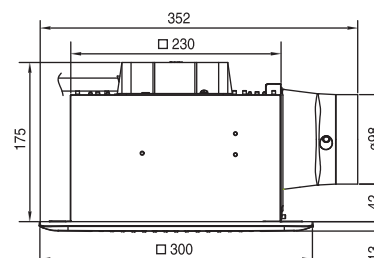
Sirocco fan with taper blade controls air turbulence effectively

Reverse flow prevention shutter

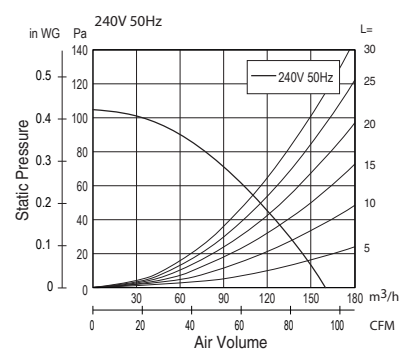
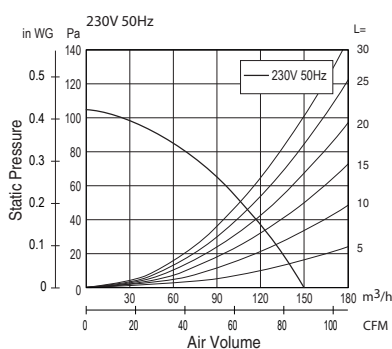
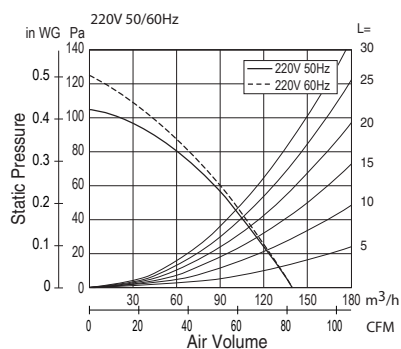
Pre-installed power cord

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]	Duct Size [mm]
	[V]	[Hz]	[m³/h]	[CFM]						
24CUG	220	50	140	82	11	615	26	2.8	240 x 240	ø100
		60	140	82	15.5	615	28			
	230	50	150	88	12.5	615	29			
	240	50	160	94	14	660	30			

Note : RPM data is for reference only, values may vary subject to different conditions
Test Condition

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- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance



Super Quiet Series

Ceiling Mount Type Ventilation Fan



24CDG

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Resonance-noise-absorption structure for super low noise

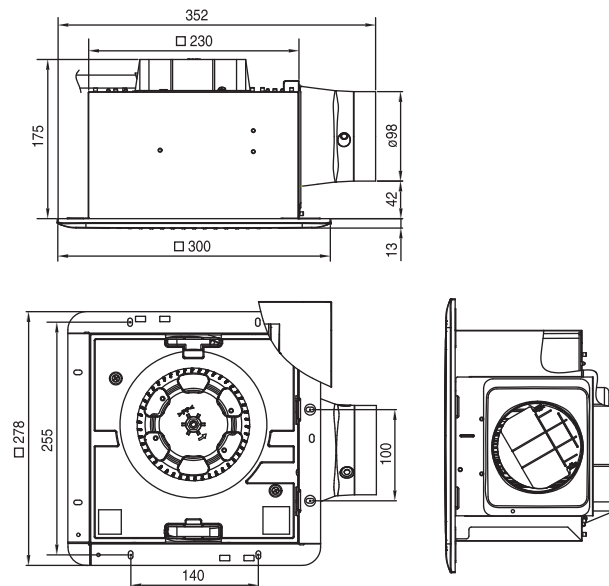
Sirocco fan with taper blade controls air turbulence effectively

Reverse flow prevention shutter

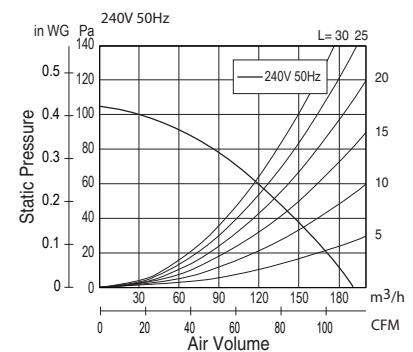
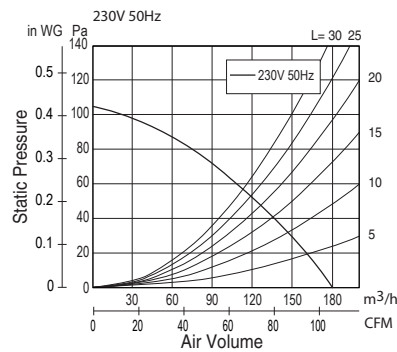
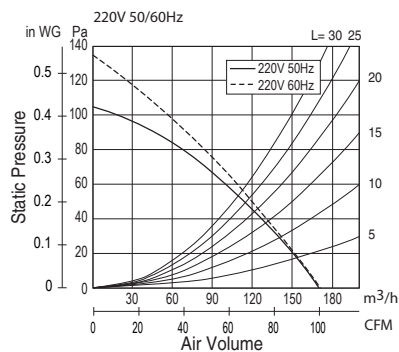
Pre-installed power cord

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]	Duct Size [mm]
	[V]	[Hz]	[m³/h]	[CFM]						
24CDG	220	50	170	100	14.5	700	29.5	2.8	240 x 240	ø100
		60	170	100	16.5	700	31.5			
	230	50	180	106	16	700	32.5			
	240	50	190	112	17.5	740	32.5			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

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- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Super Quiet Series

Ceiling Mount Type Ventilation Fan



24CHG

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Resonance-noise-absorption structure for super low noise

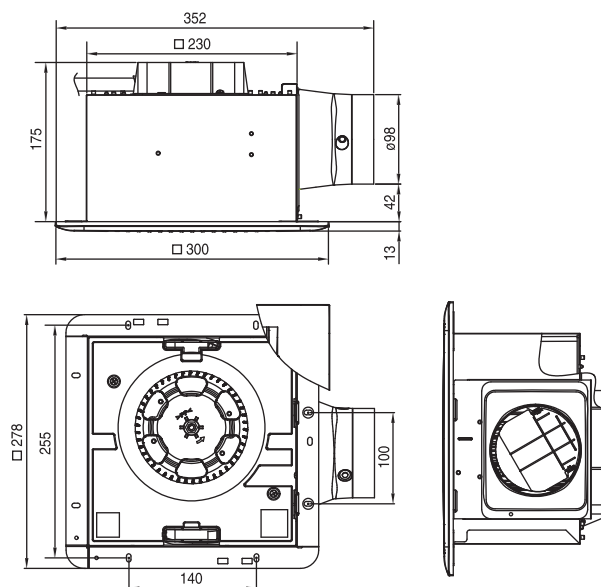
Sirocco fan with taper blade controls air turbulence effectively

Reverse flow prevention shutter

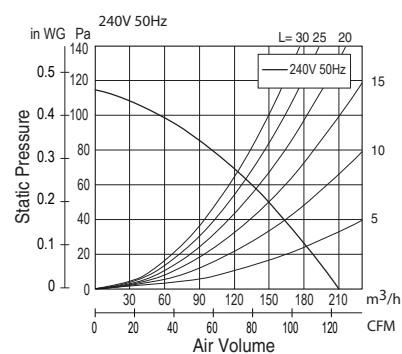
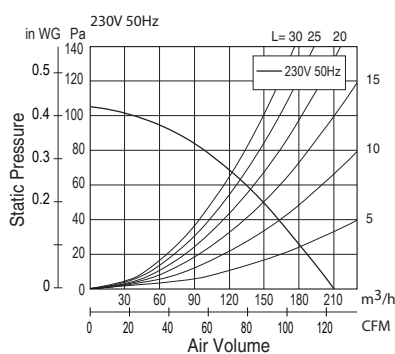
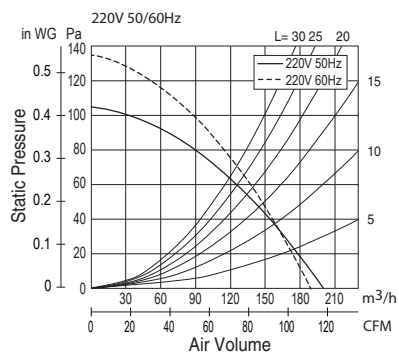
Pre-installed power cord

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]	Duct Size [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]						
24CHG	220	50	200	118	18	760	33.5	2.8	240 x 240	ø100
		60	190	112	22	730	33.5			
	230	50	210	124	20	800	35			
	240	50	210	124	22	850	36			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

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- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance



Super Quiet Series

Ceiling Mount Type Ventilation Fan



27CHH

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Resonance-noise-absorption structure for super low noise

Sirocco fan with taper blade controls air turbulence effectively

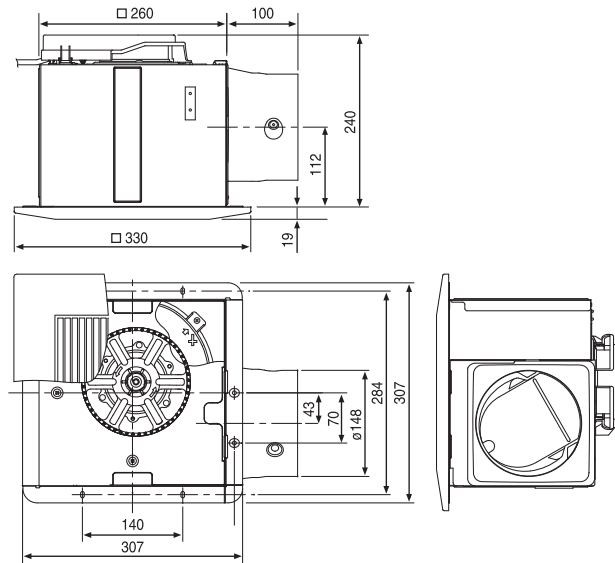
Reverse flow prevention shutter

Pre-installed power cord

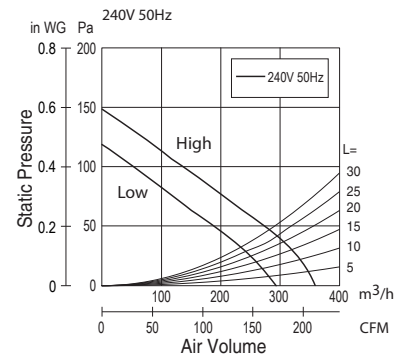
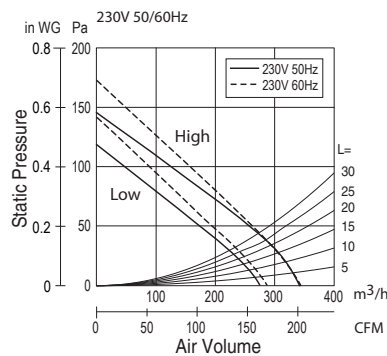
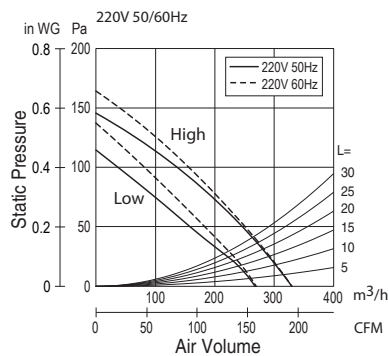
2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage			Air Volume		Consumption	RPM	Noise	Weight	Installation Space	Duct Size
	[V]	[Hz]		[m³/h]	[CFM]						
27CHH	220	50	Hi	330	194	28	570	34	4.4	270 x 270	ø150
			Lo	260	153	23	480	30			
		60	Hi	330	194	33	570	34			
			Lo	270	159	26	490	31			
	230	50	Hi	340	200	31.5	-	35			
			Lo	275	162	25.5	-	31.5			
	240	50	Hi	360	212	34	610	36.5			
			Lo	290	171	27.5	520	32			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

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- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Super Quiet Series

Ceiling Mount Type Ventilation Fan



32CDH

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Resonance-noise-absorption structure for super low noise

Sirocco fan with taper blade controls air turbulence effectively

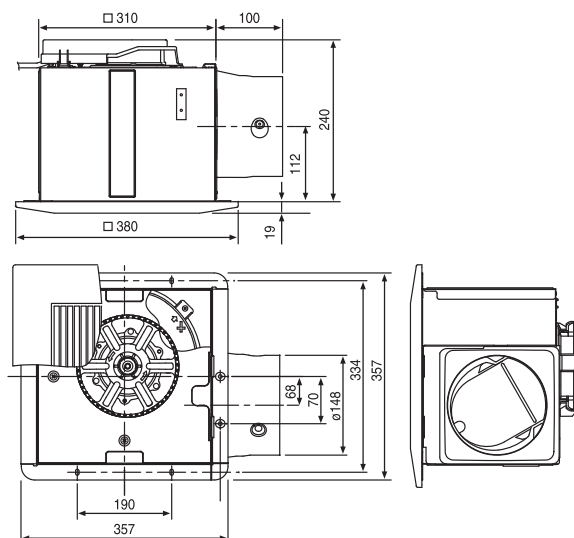
Reverse flow prevention shutter

Pre-installed power cord

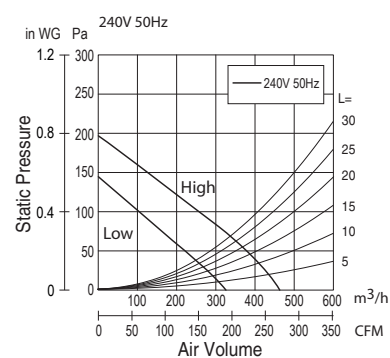
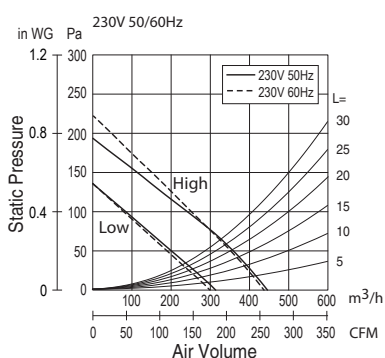
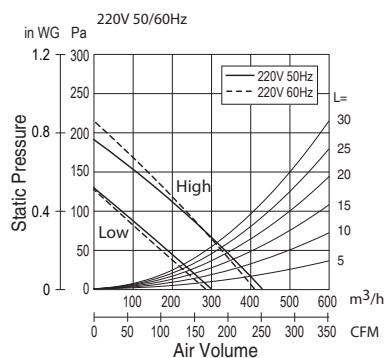
2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage			Air Volume		Consumption	RPM	Noise	Weight	Installation Space	Duct Size
	[V]	[Hz]		[m³/h]	[CFM]						
32CDH	220	50	Hi	430	253	42	590	36	5.2	320 x 320	ø150
			Lo	300	177	32	460	28			
		60	Hi	410	241	48	580	35.5			
			Lo	285	168	33	450	27.5			
	230	50	Hi	440	259	46	-	37.5			
			Lo	315	185	34	-	29			
		50	Hi	470	277	50	650	38.5			
			Lo	330	194	38	490	30			

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Test Condition

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Super Quiet Series

Ceiling Mount Type Ventilation Fan



32CHH

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Resonance-noise-absorption structure for super low noise

Sirocco fan with taper blade controls air turbulence effectively

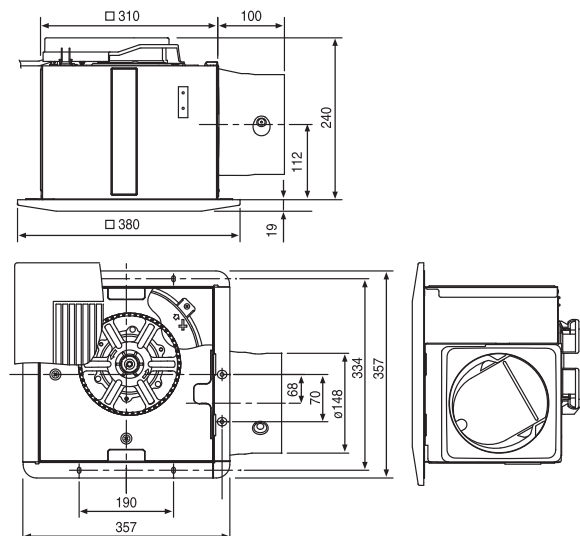
Reverse flow prevention shutter

Pre-installed power cord

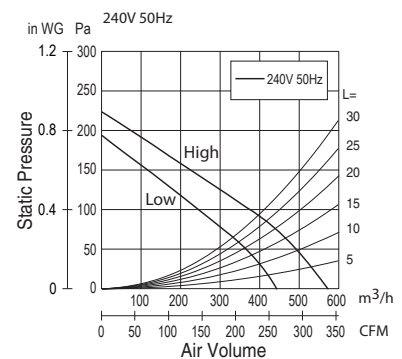
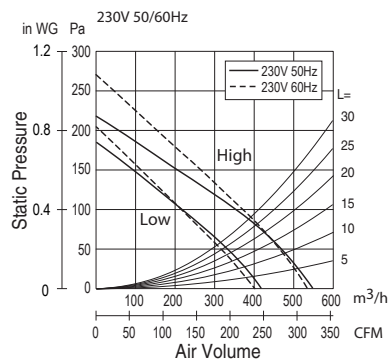
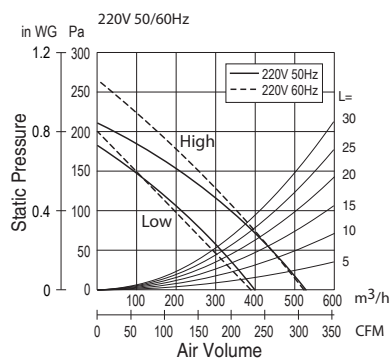
2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage			Air Volume		Consumption	RPM	Noise	Weight	Installation Space	Duct Size
	[V]	[Hz]		[m³/h]	[CFM]						
32CHH	220	50	Hi	530	312	55	710	41	5.6	320 x 320	ø150
			Lo	400	235	45	570	34			
		60	Hi	525	309	61	695	40.5			
			Lo	390	230	47	540	33			
	230	50	Hi	555	327	59	-	42			
			Lo	430	253	49	-	35.5			
		50	Hi	580	341	64	770	43			
			Lo	450	265	53	615	37			

Note : RPM data is for reference only, values may vary subject to different conditions
Test Condition

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- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance



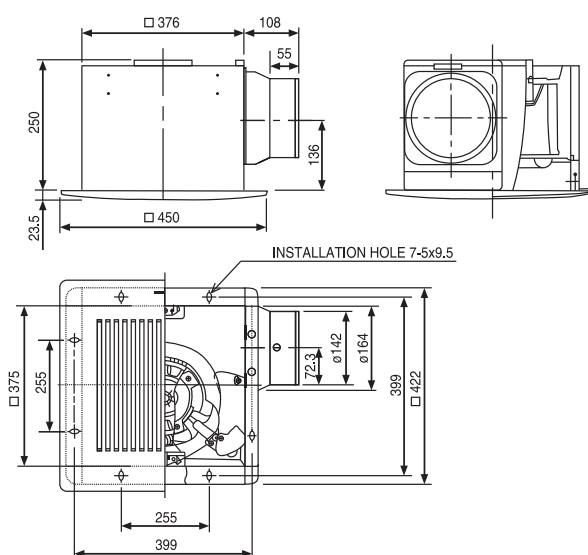
Ceiling Mount Type Ventilation Fan



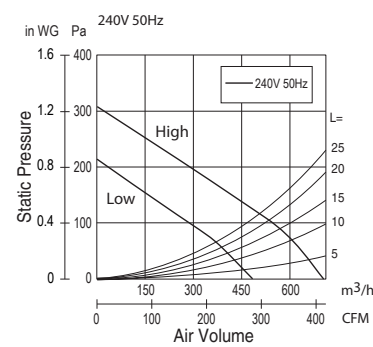
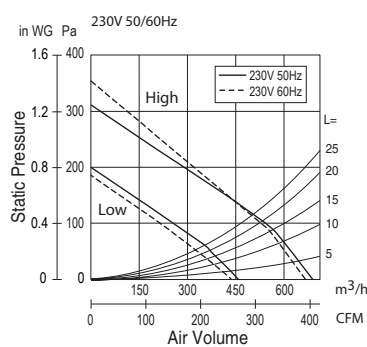
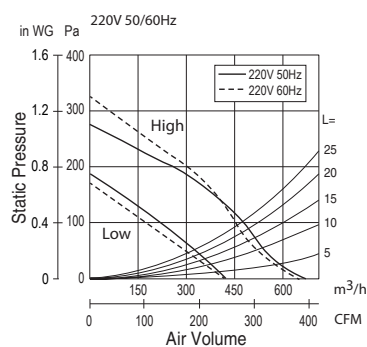
2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage			Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]	Duct Size [mm]	
	[V]	[Hz]		[m³/h]	[CFM]							
38CDG	220	50	Hi	640	377	90	645	44	9.7	385 x 385	ø150	
			Lo	430	253	66	456	35				
		60	Hi	630	371	98	628	43.5				
			Lo	410	241	66.4	439	34.5				
	230	50	Hi	675	397	96	670	46				
			Lo	440	259	72	480	36				
		240	50	Hi	700	412	104	699				47
				Lo	470	277	78	495				37

- The values of air volume are the mid-points of results measured by our company, within $\pm 10\%$ tolerance

Ceiling Mount Type Ventilation Fan

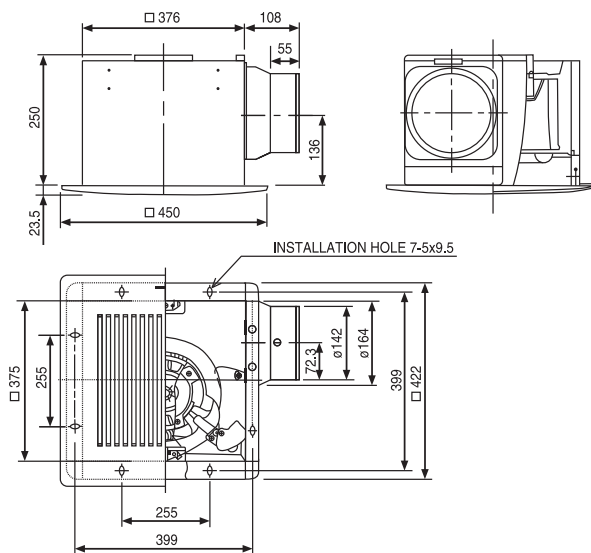


38CHG

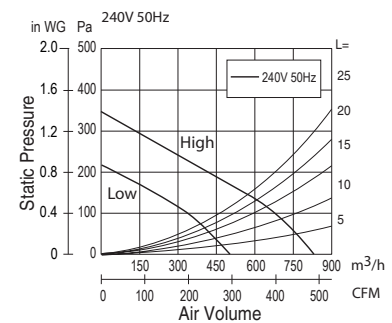
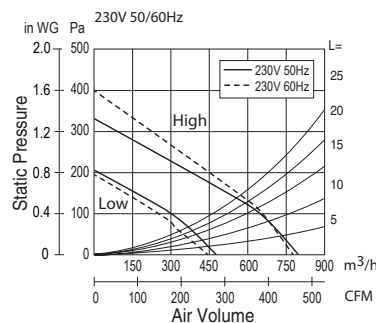
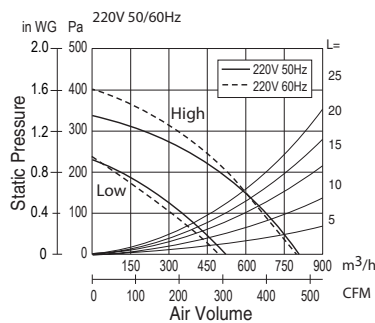
- Condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Sirocco fan with taper blade controls air turbulence effectively
- Reverse flow prevention shutter
- 2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage			Air Volume		Consumption	RPM	Noise	Weight	Installation Space	Duct Size
	[V]	[Hz]		[m³/h]	[CFM]						
38CHG	220	50	Hi	800	471	122	790	49.5	10.4	385 x 385	ø150
			Lo	525	309	89	540	39.5			
		60	Hi	790	465	138	760	49			
			Lo	500	294	90	509	39			
	230	50	Hi	800	471	122	775	49			
			Lo	470	277	84	485	37			
		50	Hi	835	491	132	807	50			
			Lo	490	288	90	504	38			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Metal Series

Ceiling Mount Type Ventilation Fan



24CMUA

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Metallic structure for extra safety against fire

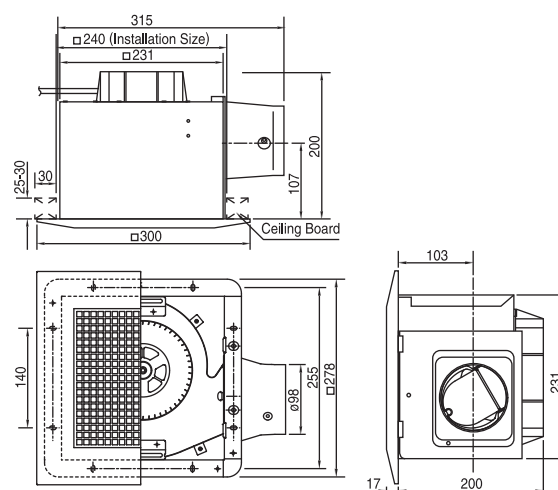
High performance steel-made sirocco fan

Reverse flow prevention shutter

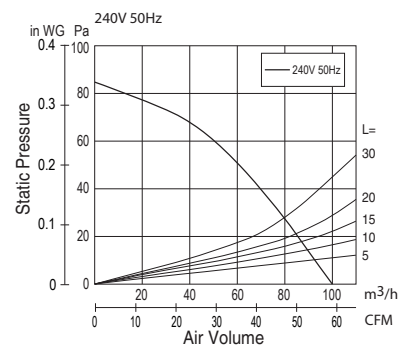
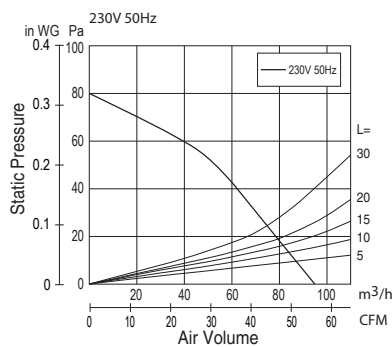
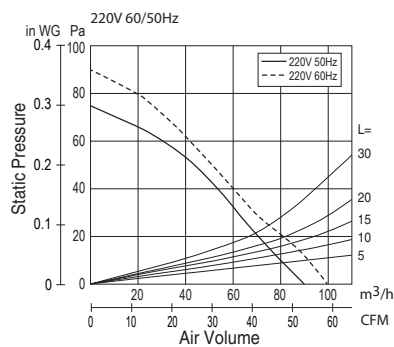
Steel louver with paint coating

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]	Duct Size [mm]
	[V]	[Hz]	[m³/h]	[CFM]						
24CMUA	220	50	90	53	11	460	25	3.9	240 x 240	ø100
		60	100	59	12	495	26			
	230	50	95	56	12	495	25.5			
	240	50	100	59	13	480	26			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance



Ceiling Mount Type Ventilation Fan



24CMHA

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Metallic structure for extra safety against fire

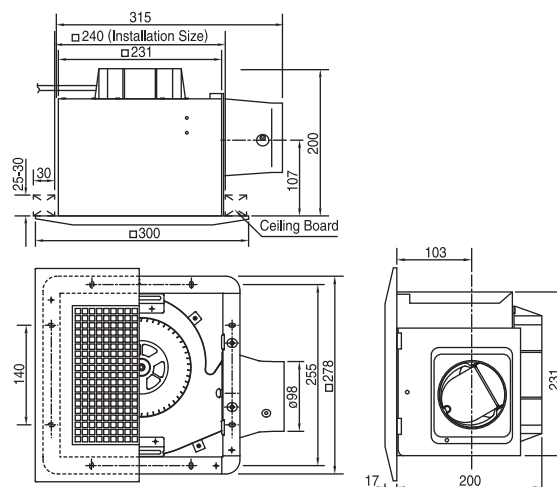
High performance steel-made sirocco fan

Reverse flow prevention shutter

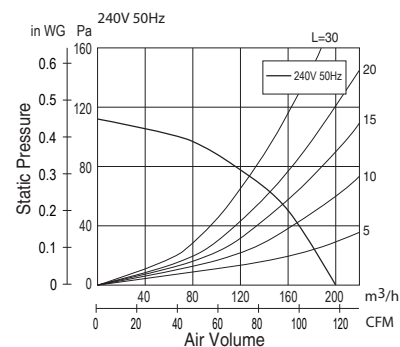
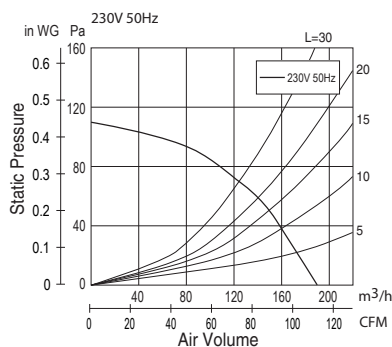
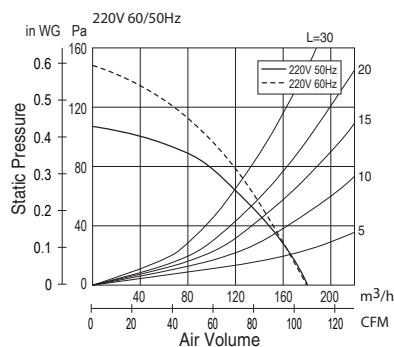
Steel louver with paint coating

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]	Duct Size [mm]
	[V]	[Hz]	[m³/h]	[CFM]						
24CMHA	220	50	180	106	20	700	37	3.9	240 x 240	ø100
		60	180	106	23	700	37			
	230	50	190	112	22	730	37.5			
	240	50	200	118	25	760	38			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Metal Series

Ceiling Mount Type Ventilation Fan



27CMHA

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Metallic structure for extra safety against fire

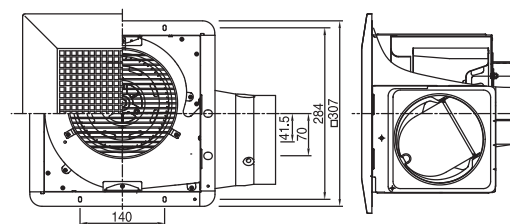
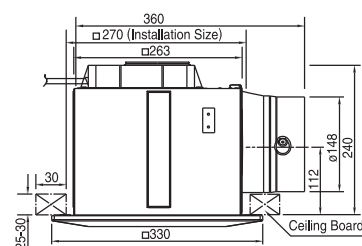
High performance steel-made sirocco fan

Reverse flow prevention shutter

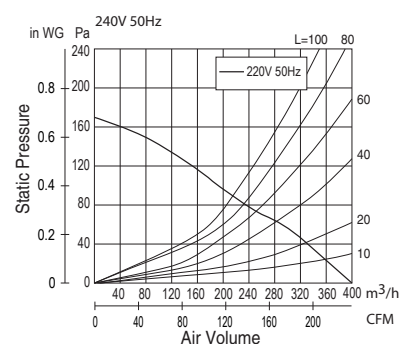
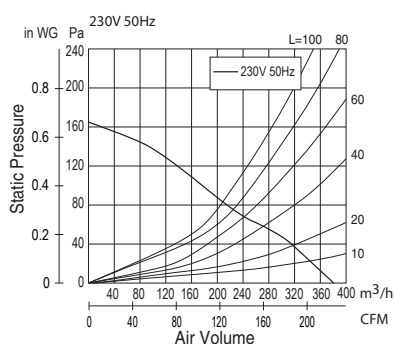
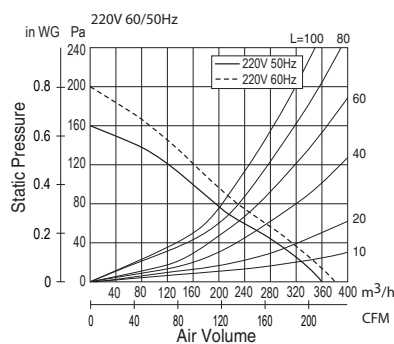
Steel louver with paint coating

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]	Duct Size [mm]
	[V]	[Hz]	[m³/h]	[CFM]						
27CMHA	220	50	360	212	35	590	37	5.9	270 x 270	ø150
		60	380	224	43	610	37.5			
	230	50	380	224	38	610	37.5			
	240	50	400	235	43	630	38			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Low Noise Type Cabinet Fan (Inline Fan)

28-35 Single Phase Series
36-38 Three Phase Series

Cabinet Fans are ducted ventilation fans with both intake and outlet opening to the interior and exterior of the house respectively. They can be used as single port or multi-port to exhaust air from several areas with one unit. Since only a small ventilation opening is required, the appearance of the interior is not spoiled.

All models are manufactured from galvanized steel enhancing high durability. The unique suction fan design and acoustic noise absorbing material realize low noise operation. The high performance induction motor offers low consumption, long life and high reliability.

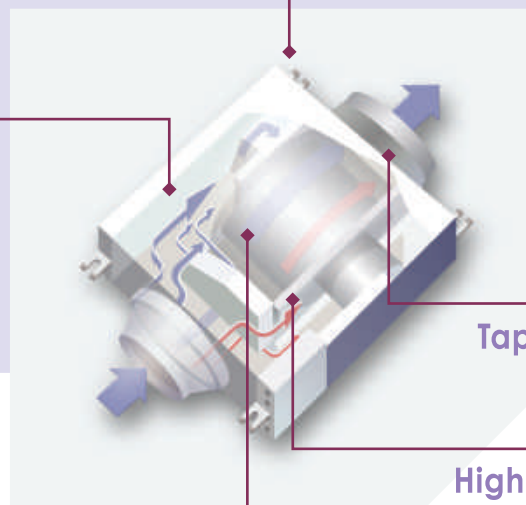
The slim, compact and light-weight structure allows easy installation in narrow ceiling space. The installation direction of the fans can be chosen to facilitate easy access to the terminal and inspection opening. Specially designed U-grooved mounting brackets prevent mounting bolts from loosening, thus reinforcing installation safety.

Feature of Cabinet Fan

Compact Size

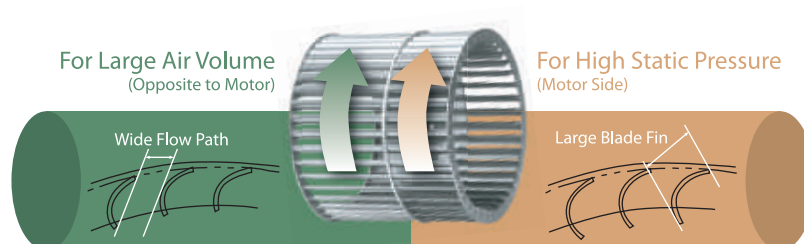
Large Air
Volume Airflow

Twin Flow Fan



Tapered Scroll

High Static
Pressure Airflow



Twin Flow Fan

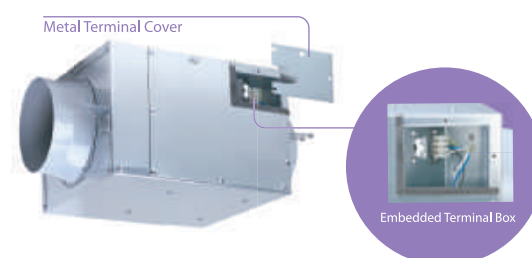
The newly developed twin flow fan achieves a better airflow inside the fan casing. It is divided into two portions which can generate large air volume and high static pressure respectively.



Internal Wind Velocity Distribution – Airflow Analysis

Tapered Scroll

Wind velocity varies according to the shape of fan casing. The tapered scroll at the fan casing can minimize the turbulence induced by uneven wind velocity inside the casing.



Embedded Terminal Box

Terminal boxes of new models are embedded into the product frame. Wiring to power supply are covered with metal enclosure that enhances the durability and safety concern.

Single Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

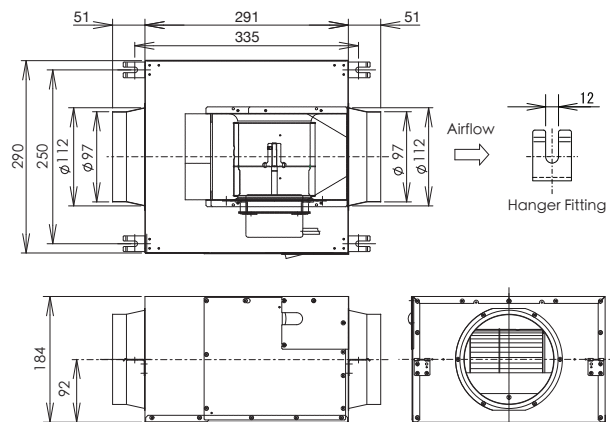


12NSB

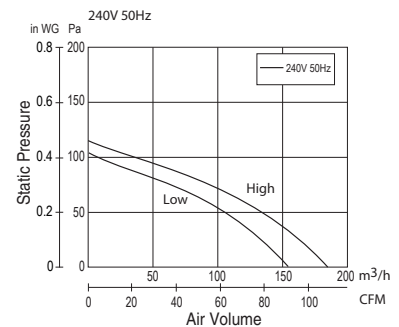
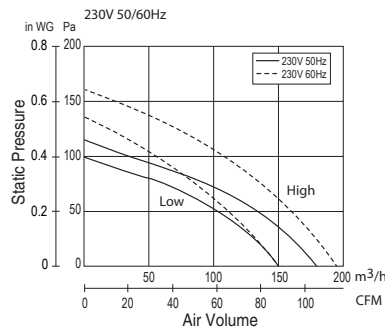
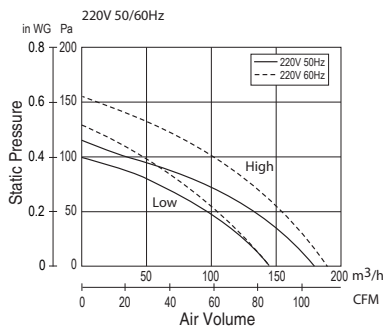
- Long life condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Twin flow fan (sirocco fan) adopted
- Fan casing with tapered scroll for smooth airflow
- Noise level reduction by noise absorption material
- Compact size with embedded terminal box
- 2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
	[V]	[Hz]		[m³/h] [CFM]						
12NSB	220	50	Hi	180 106	18	1,265	21	5.5	ø 100	128
			Lo	145 85	17	1,020	17			
		60	Hi	190 112	23	1,370	22			
			Lo	145 85	19	1000	18			
	230	50	Hi	180 106	20	-	21			
			Lo	150 88	18	-	18			
	240	50	Hi	185 109	22	-	22			
			Lo	155 91	19	-	20			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Single Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

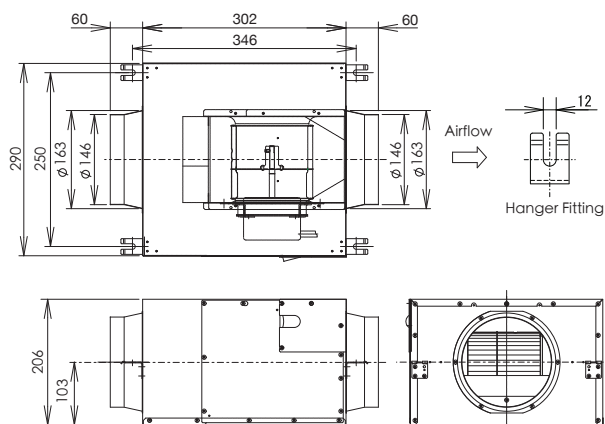


15NSB

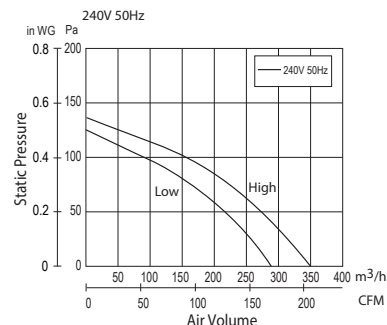
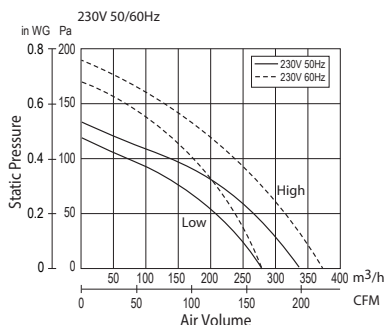
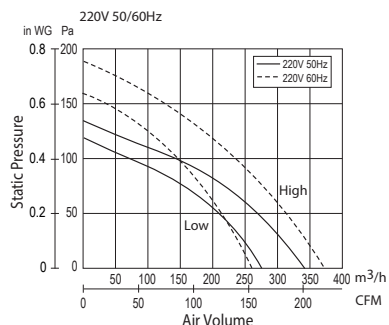
- Long life condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Twin flow fan (sirocco fan) adopted
- Fan casing with tapered scroll for smooth airflow
- Noise level reduction by noise absorption material
- Compact size with embedded terminal box
- 2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
	[V]	[Hz]		[m³/h] [CFM]						
15NSB	220	50	Hi	340 200	33	1,270	25	6.5	ø 150	128
			Lo	275 162	29.5	1,100	22			
		60	Hi	370 218	42	1,385	27			
			Lo	260 153	33	1,040	22			
	230	50	Hi	340 200	35	-	25			
			Lo	280 165	31	-	22			
		50	Hi	350 206	37	-	26			
			Lo	290 171	33	-	24			

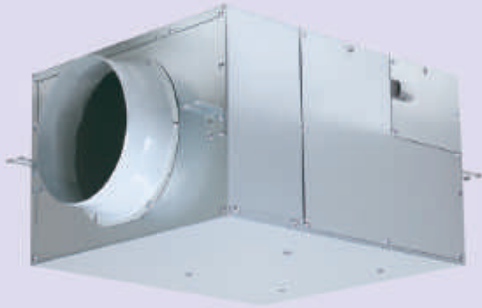
Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Single Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

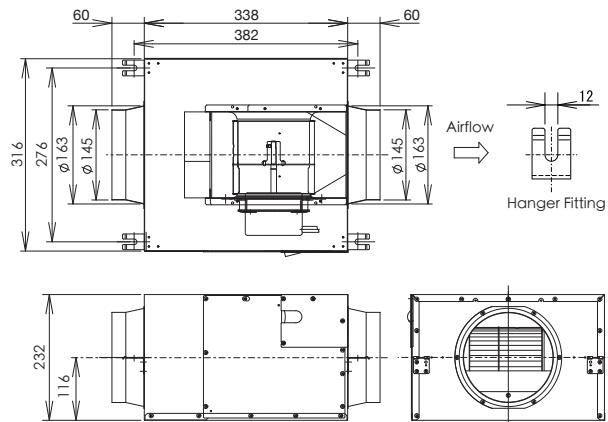


18NSB

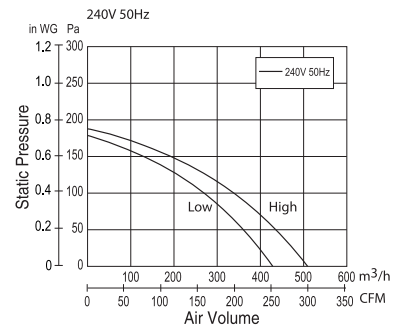
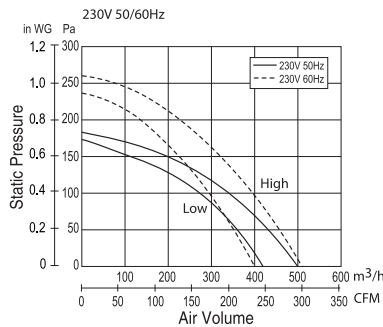
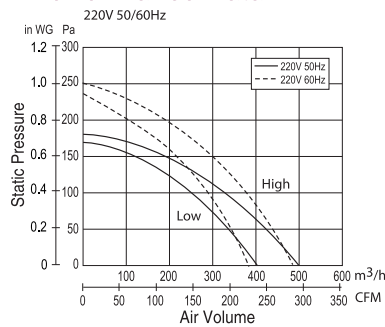
- Long life condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Twin flow fan (sirocco fan) adopted
- Fan casing with tapered scroll for smooth airflow
- Noise level reduction by noise absorption material
- Compact size with embedded terminal box
- 2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
	[V]	[Hz]		[m³/h] [CFM]						
18NSB	220	50	Hi	500 294	60	1,250	29	8.5	ø 150	158
			Lo	405 238	55	1,100	27			
		60	Hi	490 288	73	1,260	30			
			Lo	385 227	62.5	990	26			
	230	50	Hi	500 294	65	-	30			
			Lo	420 247	58.5	-	28			
	240	50	Hi	510 300	68	-	31			
			Lo	430 253	62.5	-	28			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Single Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

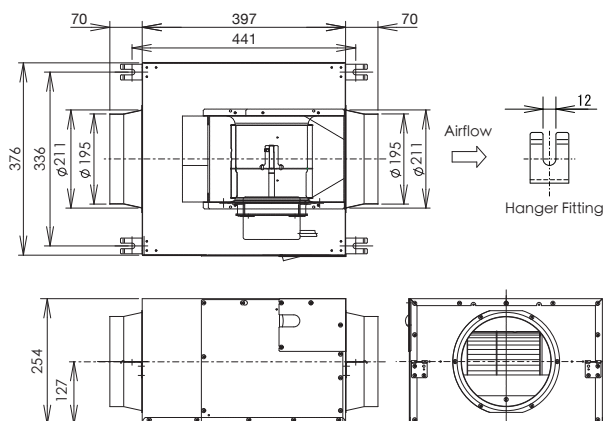


18NFB

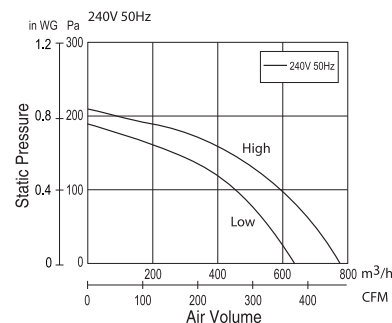
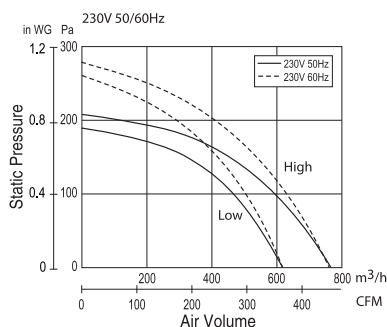
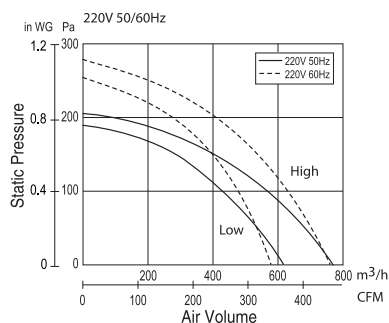
- Long life condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Twin flow fan (sirocco fan) adopted
- Fan casing with tapered scroll for smooth airflow
- Noise level reduction by noise absorption material
- Compact size with embedded terminal box
- 2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
	[V]	[Hz]		[m³/h] [CFM]						
18NFB	220	50	Hi	770 453	91	1,190	31	10.0	ø 200	158
			Lo	620 365	80	1,000	29			
		60	Hi	760 447	119	1,245	32			
			Lo	580 341	87	990	28			
	230	50	Hi	770 453	96	-	32			
			Lo	620 365	82	-	29			
		50	Hi	780 459	104	-	33			
			Lo	640 377	86	-	29			

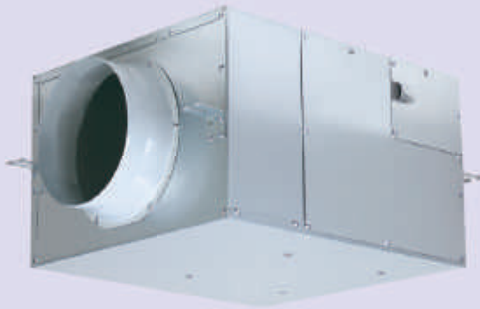
Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Single Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

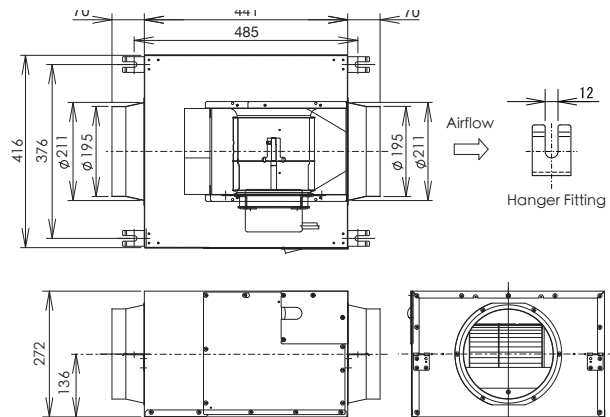


20NSB

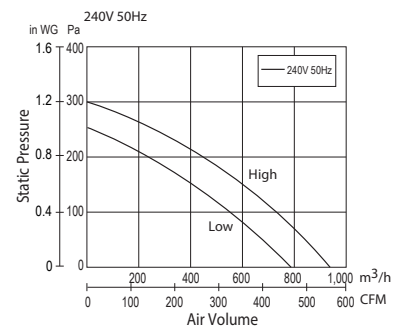
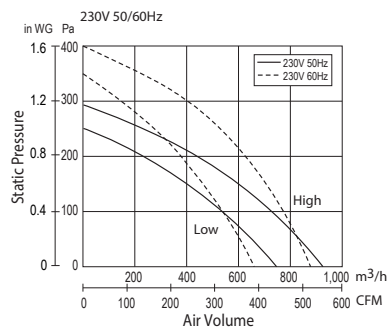
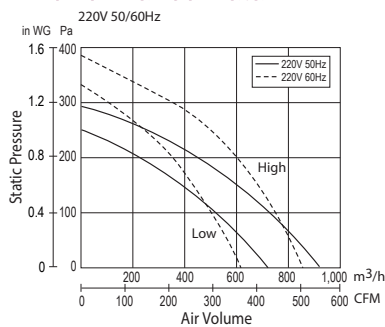
- Long life condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Twin flow fan (sirocco fan) adopted
- Fan casing with tapered scroll for smooth airflow
- Noise level reduction by noise absorption material
- Compact size with embedded terminal box
- 2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
	[V]	[Hz]		[m³/h] [CFM]						
20NSB	220	50	Hi	920 541	120	1,195	32	14.0	ø 200	178
			Lo	720 424	113	1,000	29			
		60	Hi	860 506	159	1,165	32			
			Lo	620 365	128	875	26			
	230	50	Hi	930 547	125	-	33			
			Lo	750 441	120	-	30			
	240	50	Hi	940 553	135	-	34			
			Lo	790 465	125	-	31			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Single Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

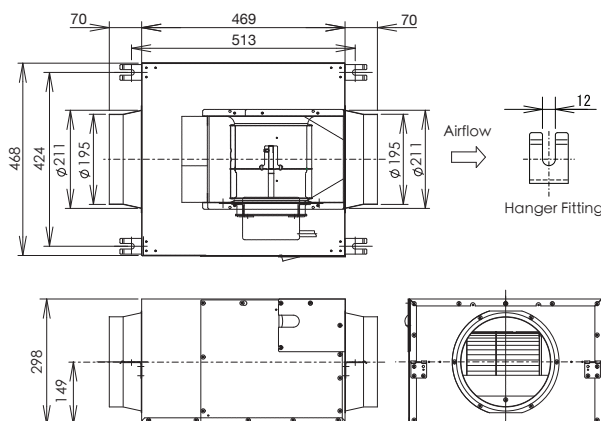


23NLB

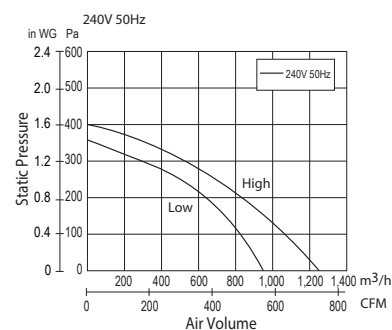
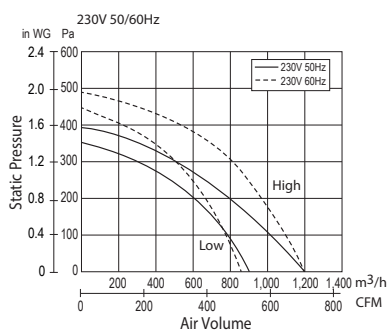
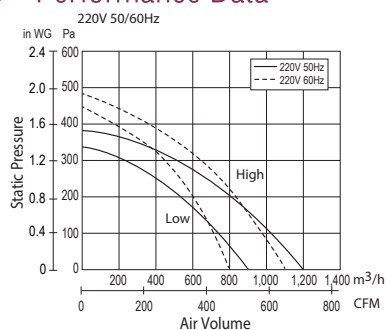
- Long life condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Twin flow fan (sirocco fan) adopted
- Fan casing with tapered scroll for smooth airflow
- Noise level reduction by noise absorption material
- Compact size with embedded terminal box
- 2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
	[V]	[Hz]		[m³/h] [CFM]						
23NLB	220	50	Hi	1,200 706	230	1,245	40	18.0	ø 200	220
			Lo	900 530	170	985	34			
		60	Hi	1,100 647	310	1,210	40			
			Lo	800 471	190	890	32			
	230	50	Hi	1,200 706	250	-	40			
			Lo	900 530	180	-	35			
	240	50	Hi	1,250 736	260	-	41			
			Lo	950 559	190	-	37			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Single Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

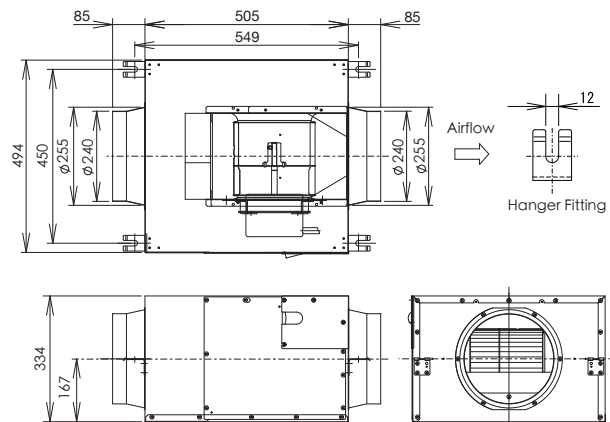


25NSB

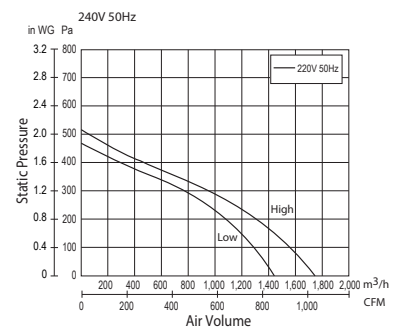
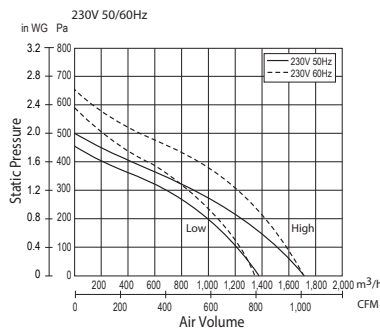
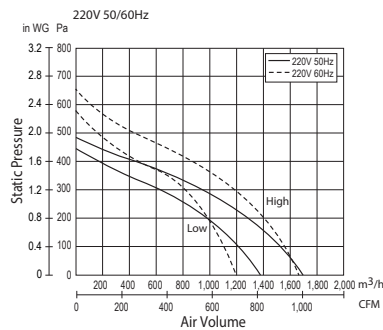
- Long life condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Twin flow fan (sirocco fan) adopted
- Fan casing with tapered scroll for smooth airflow
- Noise level reduction by noise absorption material
- Compact size with embedded terminal box
- 2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
	[V]	[Hz]		[m³/h] [CFM]						
25NSB	220	50	Hi	1,700 1,001	345	1,125	41	24.0	ø 250	220
			Lo	1,380 812	265	950	38			
		60	Hi	1,650 971	425	1,100	41			
			Lo	1,200 706	300	890	39			
	230	50	Hi	1,720 1,012	350	-	42			
			Lo	1,380 812	270	-	39			
	240	50	Hi	1,750 1,030	370	-	44			
			Lo	1,450 853	290	-	40			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Single Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

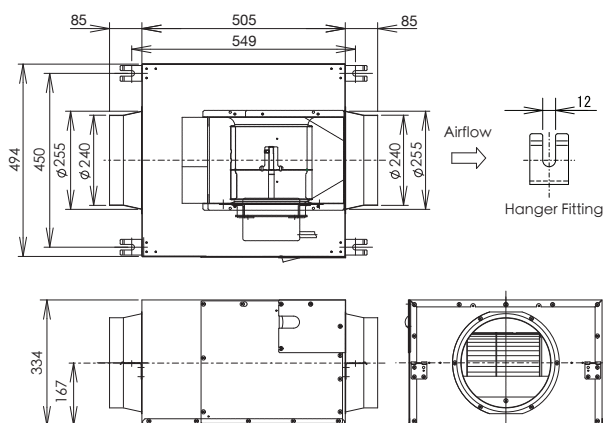


25NFB

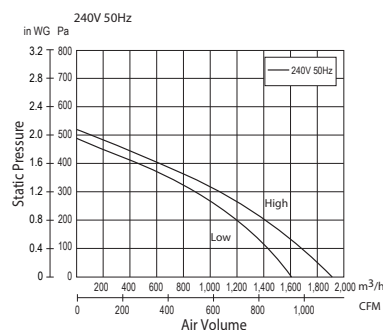
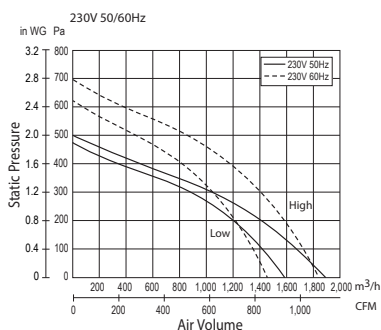
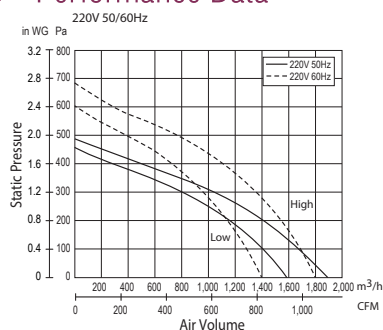
- Long life condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Twin flow fan (sirocco fan) adopted
- Fan casing with tapered scroll for smooth airflow
- Noise level reduction by noise absorption material
- Compact size with embedded terminal box
- 2 speed selectable

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
	[V]	[Hz]		[m ³ /h] [CFM]						
25NFB	220	50	Hi	1,900 1,118	390	1,225	43	24.0	ø 250	220
			Lo	1,600 942	325	1,070	40			
		60	Hi	1,810 1,065	520	1,245	42			
			Lo	1,400 824	380	1,000	41			
	230	50	Hi	1,910 1,124	410	-	45			
			Lo	1,600 942	335	-	41			
	240	50	Hi	1,920 1,130	430	-	46			
			Lo	1,620 953	360	-	42			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Three Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

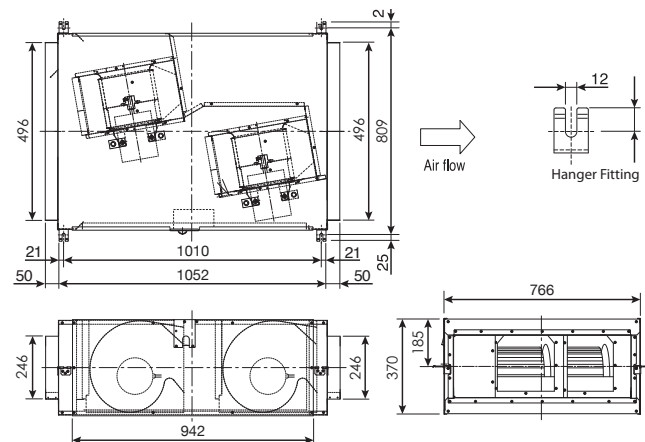


25SWC

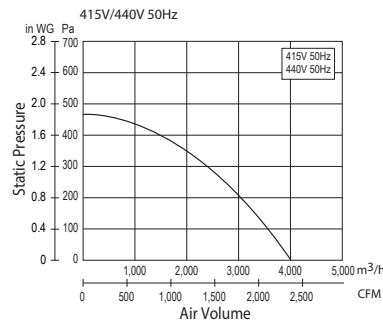
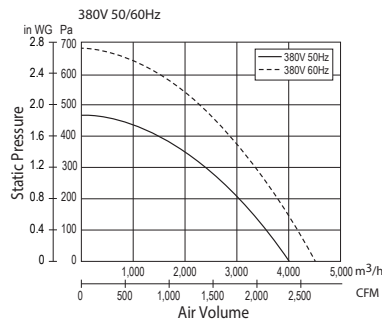
Long life condenser motor with thermal cutoff
Well lubricated ball bearing for long life operation
Twin flow fan (sirocco fan) adopted
Fan casing with tapered scroll for smooth airflow
Noise level reduction by noise absorption material
Compact size with embedded terminal box

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Phase	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
		[V]	[Hz]	[m³/h]	[CFM]						
25SWC	3	380	50	4,000	2,354	940	1,375	43	60.0	250 x 500	250
			60	4,500	2,649	1,450	1,530	45			
	3	415	50	4,000	2,354	1,000	1,390	43			
	3	440	50	4,000	2,354	1,000	-	43			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Three Phase Series

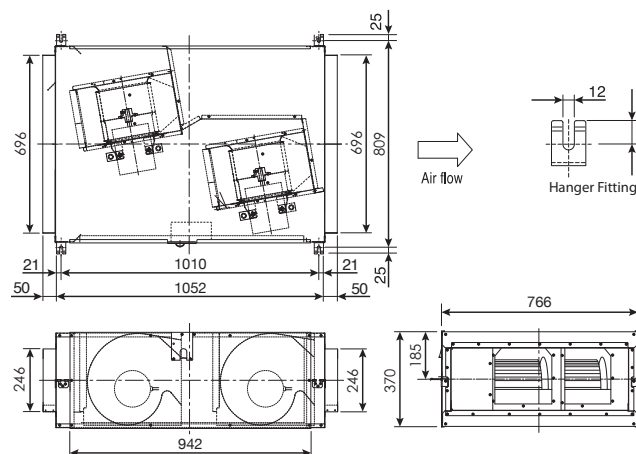
Low Noise Type Cabinet Fan (Inline Fan)

25SMC

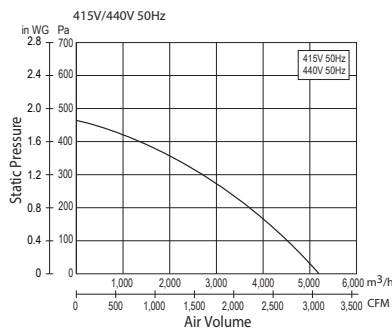
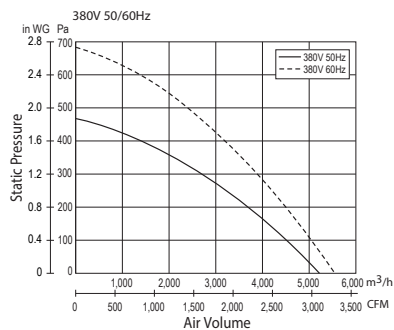
- Long life condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Twin flow fan (sirocco fan) adopted
- Fan casing with tapered scroll for smooth airflow
- Noise level reduction by noise absorption material
- Compact size with embedded terminal box

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Phase	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
		[V]	[Hz]	[m ³ /h]	[CFM]						
25SMC	3	380	50	5,200	3,061	1,180	1,375	45	60.0	250 x 700	250
			60	5,500	3,237	1,750	1,470	46			
	3	415	50	5,200	3,061	1,260	1,365	45			
	3	440	50	5,200	3,061	1,260	-	45			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Three Phase Series

Low Noise Type Cabinet Fan (Inline Fan)

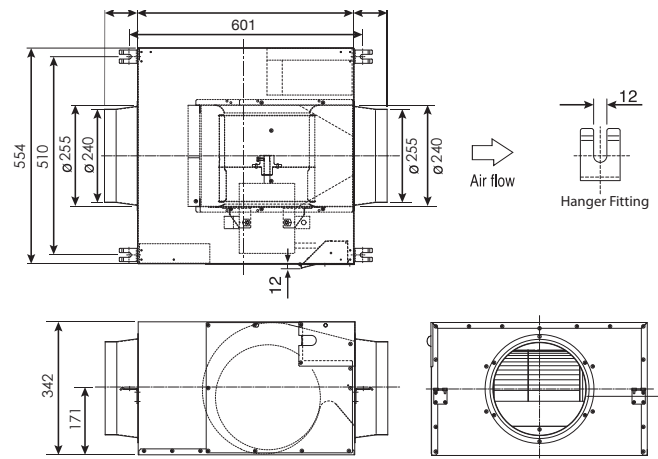


28NXC

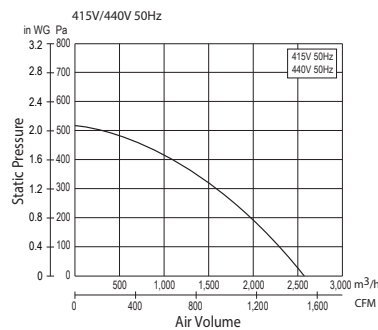
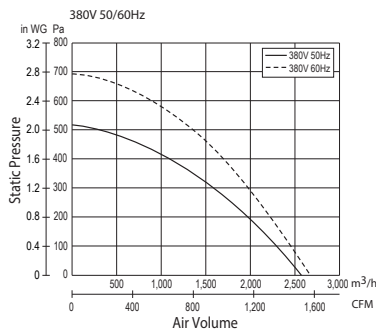
Long life condenser motor with thermal cutoff
Well lubricated ball bearing for long life operation
Twin flow fan (sirocco fan) adopted
Fan casing with tapered scroll for smooth airflow
Noise level reduction by noise absorption material
Compact size with embedded terminal box

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Phase	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Duct Size [mm]	Impeller Diameter [mm]
		[V]	[Hz]	[m ³ /h]	[CFM]						
28NXC	3	380	50	2,600	1,530	600	1,295	44	28.0	ø 250	280
			60	2,650	1,560	840	1,380	45			
	3	415	50	2,600	1,530	650	1,315	44			
	3	440	50	2,600	1,530	650	-	44			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1.5 m apart from the side of fan body when ducts are connected on both inlet and outlet side
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance



Industrial Type Ventilation Fan



- 42-51 High Pressure Series
- 52-54 Shutter Series
- 55 Optional Accessories

Industrial Type Ventilation fans can be used in factories, warehouses, shops, commercial kitchens and other places where large air change is necessary. Particular models are applicable for the places being ventilated by duct pipe through which static pressure is relatively high.

Feature of High Pressure Series

High Static Pressure, Low Power Consumption

The newly developed fan and original bell mouth construction enable operation with high static pressure and low power consumption.

Low-Noise Design

The fan blade's distinctive wave shape, developed using hydrodynamic analysis, delivers a smooth, turbulence-free airflow. The result is more air with less noise.

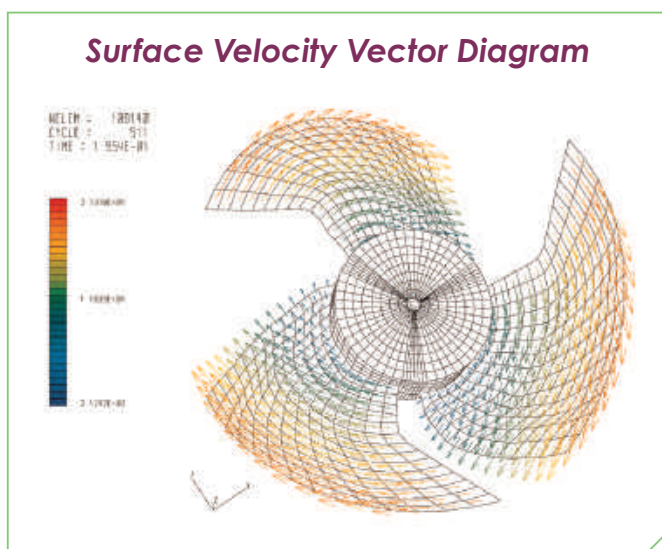
Fan with 3-dimensional S-shaped Cross-section Blade



High Durability

Pressure is distributed more uniformly over the surface of the fan blade, making the blade more durable.

A special polyester resin and powder coating give a beautiful color and a highly rust-resistant finish.



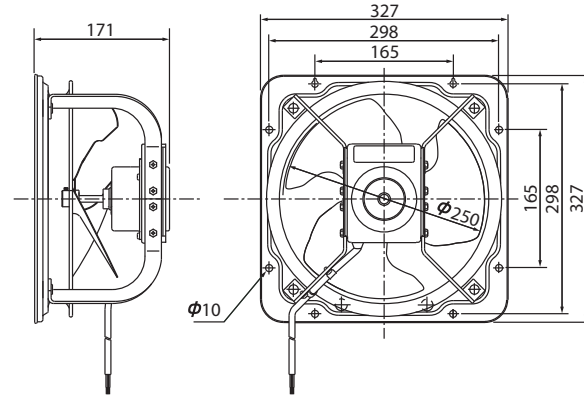
Industrial Type Ventilation Fan

High Pressure Series



Dimension

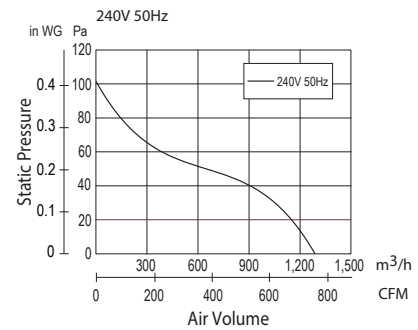
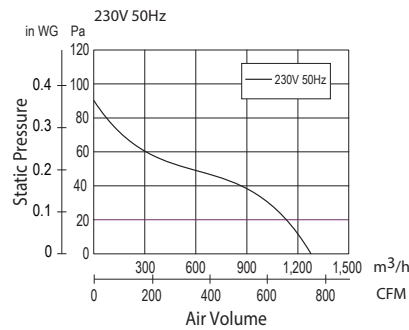
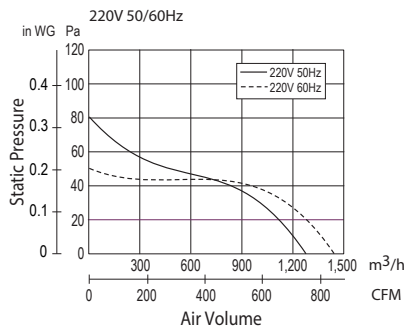
Unit : mm



25GSE

- Single phase
- Bell mouth construction with wave-shaped blade
- Durable powder coating
- High performance motor with thermal cutoff
- Reversible by adjusting wiring and blade
- Ambient temperature from -10°C to +40°C
- Possible to install horizontally or vertically
- Optional shutter available

Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m ³ /h]	[CFM]				
25GSE	220	50	1,280	753	41	1,400	44	4.4
		60	1,440	848	57	1,595	46	
	230	50	1,280	753	43	1,410	44	
	240	50	1,280	753	44	1,420	44	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

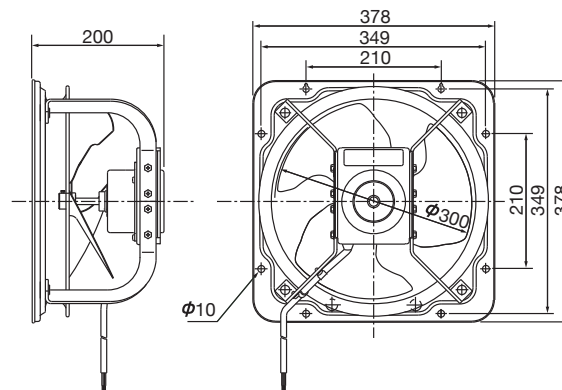
High Pressure Series

Industrial Type Ventilation Fan



Dimension

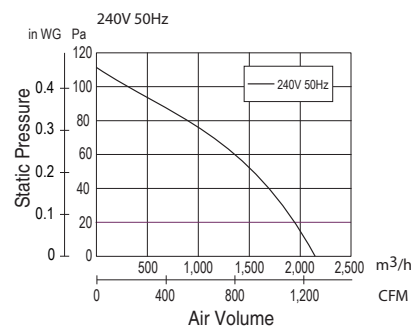
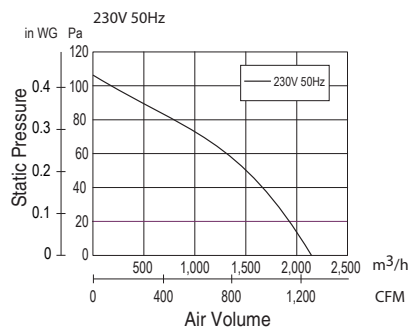
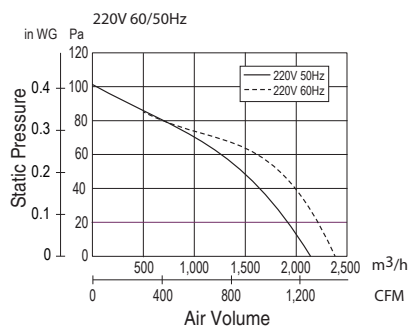
Unit : mm



30GSE

- Single phase
- Bell mouth construction with wave-shaped blade
- Durable powder coating
- High performance motor with thermal cutoff
- Reversible by adjusting wiring and blade
- Ambient temperature from -10°C to +40°C
- Possible to install horizontally or vertically
- Optional shutter available

Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m ³ /h]	[CFM]				
30GSE	220	50	2,150	1,265	87	1,330	49	6.1
		60	2,390	1,407	119	1,510	51	
	230	50	2,150	1,265	92	1,350	49	
	240	50	2,150	1,265	98	1,360	50	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

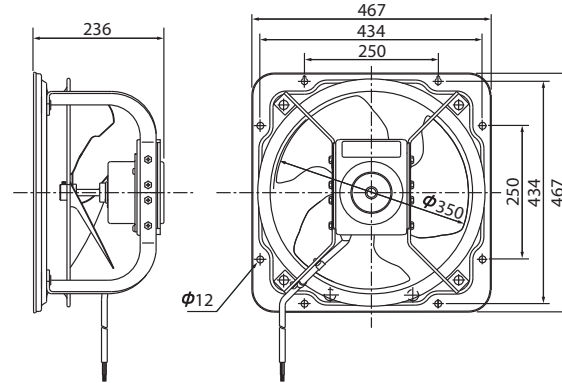
Industrial Type Ventilation Fan

High Pressure Series



Dimension

Unit : mm



35GSE

Single phase

Bell mouth construction with wave-shaped blade

Durable powder coating

High performance motor with thermal cutoff

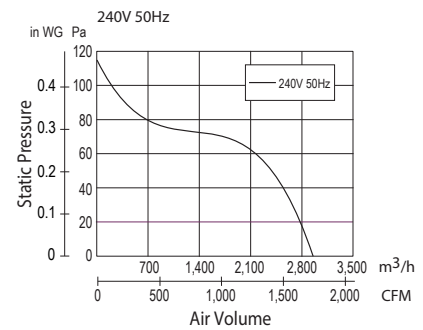
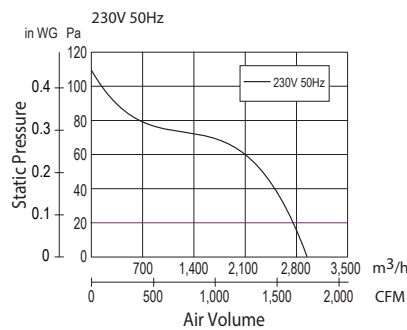
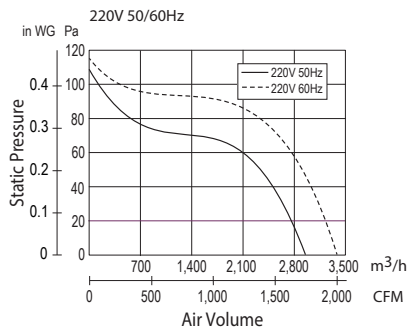
Reversible by adjusting wiring and blade

Ambient temperature from -10°C to +40°C

Possible to install horizontally or vertically

Optional shutter available

Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m ³ /h]	[CFM]				
35GSE	220	50	2,950	1,736	113	1,430	51	10.5
		60	3,380	1,989	161	1,665	54	
	230	50	2,950	1,736	118	1,435	51	
	240	50	2,950	1,736	122	1,440	51	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

High Pressure Series

Industrial Type Ventilation Fan



40GSE

Single phase

Bell mouth construction with wave-shaped blade

Durable powder coating

High performance motor with thermal cutoff

Reversible by adjusting wiring and blade

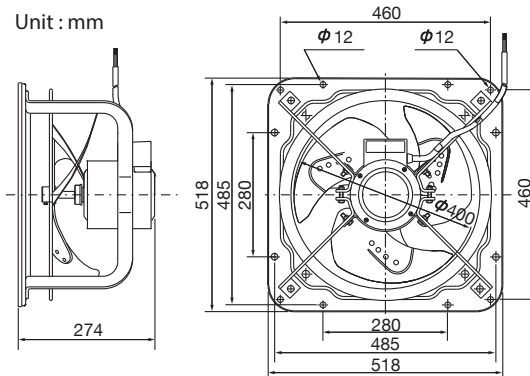
Ambient temperature from -10°C to +40°C

Possible to install horizontally or vertically

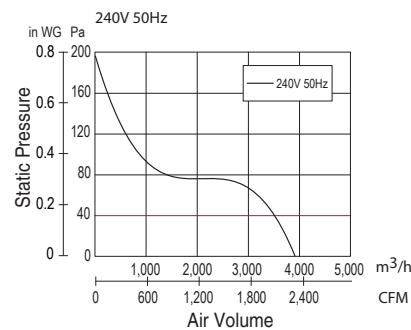
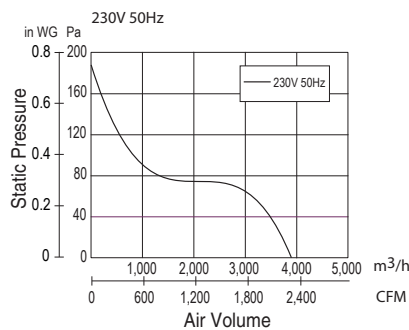
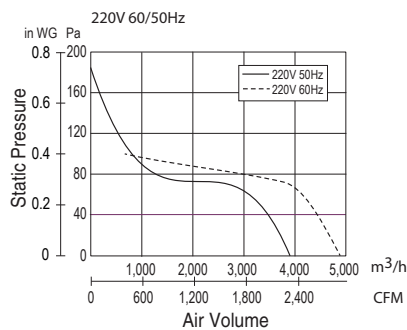
Optional shutter available

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m ³ /h]	[CFM]				
40GSE	220	50	3,900	2,295	141	1,430	54	19.0
		60	4,890	2,878	270	1,590	58	
	230	50	3,900	2,295	146	1,435	54	
	240	50	3,900	2,295	151	1,440	54	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

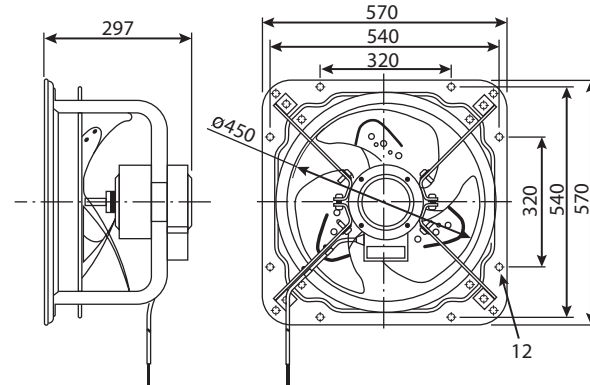
High Pressure Series

Industrial Type Ventilation Fan



Dimension

Unit : mm



45GSC

Single phase

Bell mouth construction with wave-shaped blade

Durable powder coating

High performance motor with thermal cutoff

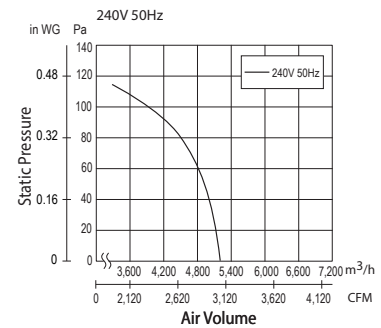
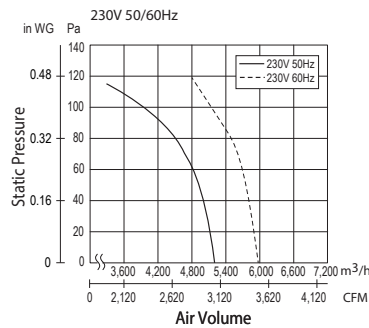
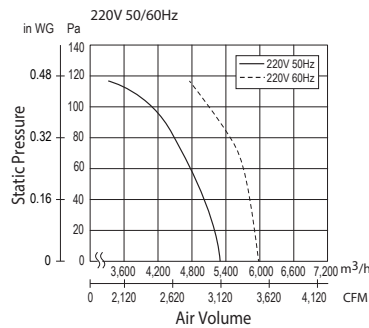
Reversible by adjusting wiring and blade

Ambient temperature from -10°C to +50°C

Possible to install horizontally or vertically

Optional shutter available

Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m³/h]	[CFM]				
45GSC	220	50	5,200	3,061	227	1,410	51	19.0
		60	5,970	3,514	325	1,630	54	
	230	50	5,430	3,196	235	1,420	51	
	240	50	5,460	3,214	241	1,430	51	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

High Pressure Series

Industrial Type Ventilation Fan



50GSC

Single phase

Bell mouth construction with wave-shaped blade

Durable powder coating

High performance motor with thermal cutoff

Reversible by adjusting wiring and blade

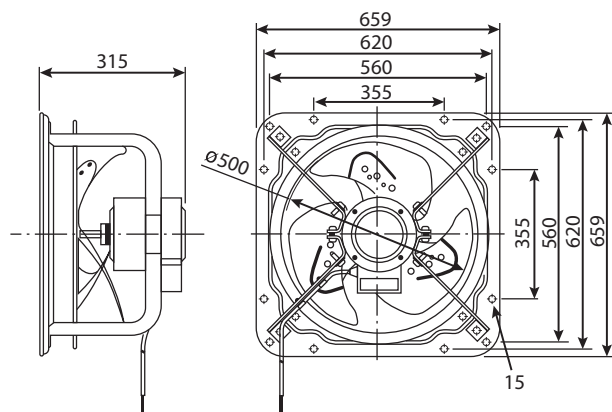
Ambient temperature from -10°C to +50°C

Possible to install horizontally or vertically

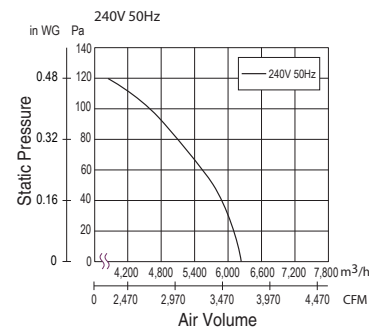
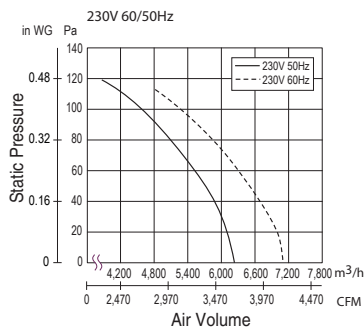
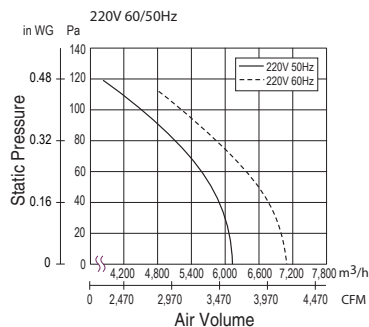
Optional shutter available

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m ³ /h]	[CFM]				
50GSC	220	50	6,130	3,608	249	960	47	22.5
		60	7,100	4,179	326	1,130	51	
	230	50	6,420	3,779	258	960	47	
	240	50	6,480	3,814	271	970	47	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

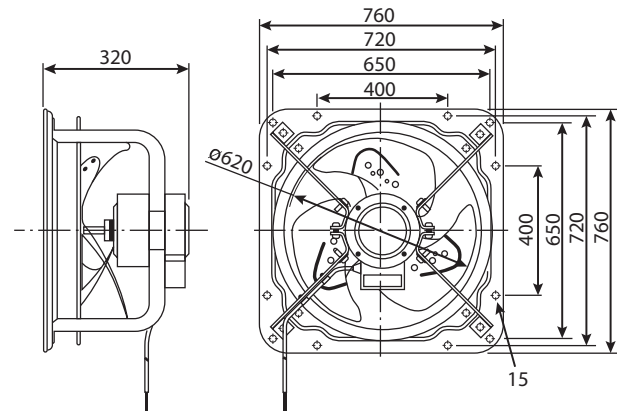
High Pressure Series

Industrial Type Ventilation Fan



Dimension

Unit : mm



60GSC

Single phase

Bell mouth construction with wave-shaped blade

Durable powder coating

High performance motor with thermal cutoff

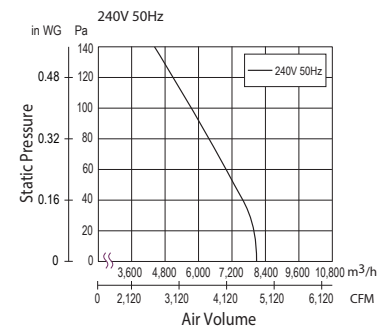
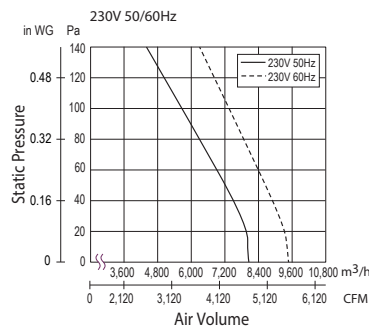
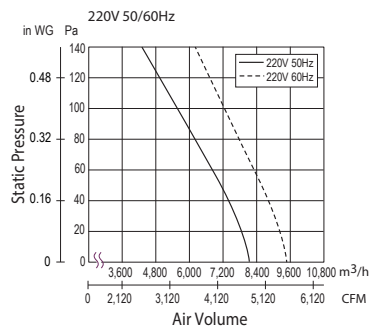
Reversible by adjusting wiring and blade

Ambient temperature from -10°C to +50°C

Possible to install horizontally or vertically

Optional shutter available

Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m³/h]	[CFM]				
60GSC	220	50	8,040	4,732	245	970	50	34.0
		60	9,410	5,539	361	1,150	54	
	230	50	8,460	4,979	258	970	50	
	240	50	8,490	4,997	263	980	50	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

High Pressure Series

Industrial Type Ventilation Fan



45GTC

Three phase

Bell mouth construction with wave-shaped blade

Durable powder coating

High performance motor with thermal cutoff

Reversible by adjusting wiring and blade

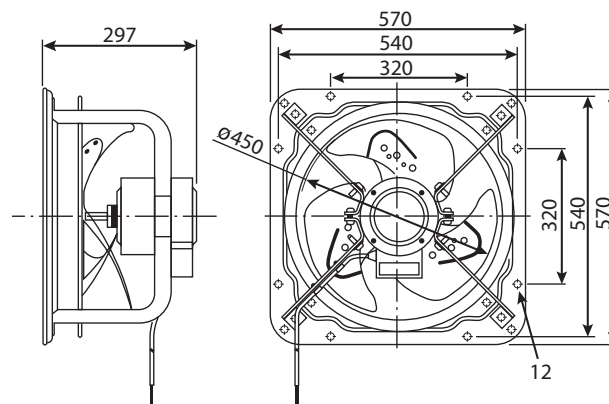
Ambient temperature from -10°C to +50°C

Possible to install horizontally or vertically

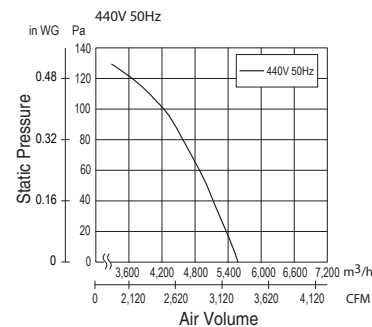
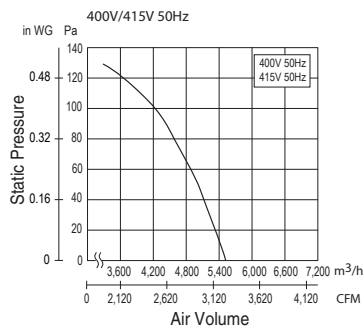
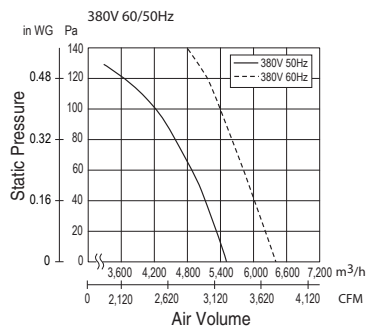
Optional shutter available

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Phase	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
		[V]	[Hz]	[m³/h]	[CFM]				
45GTC	3	380	50	5,520	3,249	220	1,450	52	18.5
			60	6,420	3,779	330	1,690	56	
	3	415	50	5,550	3,267	230	1,460	52	
	3	440	50	5,580	3,284	235	1,460	52	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

High Pressure Series

Industrial Type Ventilation Fan

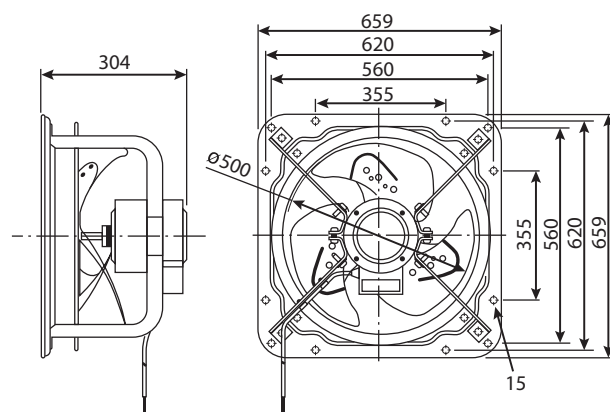


50GTC

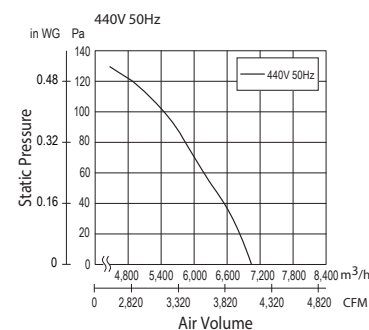
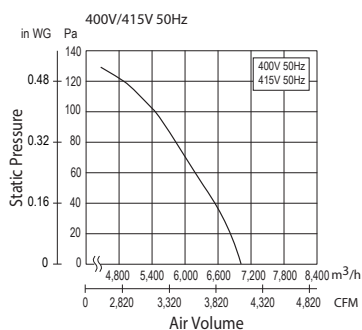
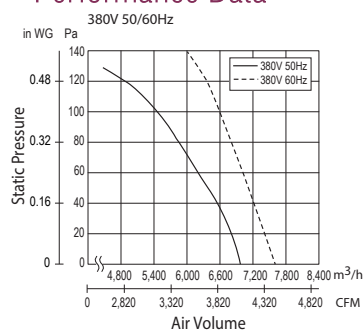
- Three phase
- Bell mouth construction with wave-shaped blade
- Durable powder coating
- High performance motor with thermal cutoff
- Reversible by adjusting wiring and blade
- Ambient temperature from -10°C to +50°C
- Possible to install horizontally or vertically
- Optional shutter available

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Phase	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
		[V]	[Hz]	[m ³ /h]	[CFM]				
50GTC	3	380	50	6,960	4,097	320	1,400	54	28.5
			60	8,010	4,715	475	1,590	58	
	3	415	50	7,020	4,132	330	1,410	54	
	3	440	50	7,050	4,149	340	1,420	54	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

High Pressure Series

Industrial Type Ventilation Fan

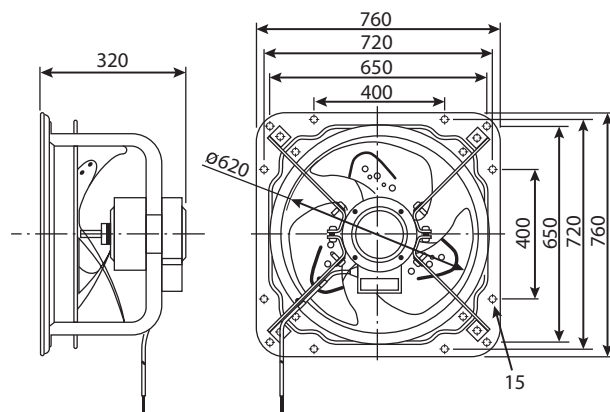


60GTC

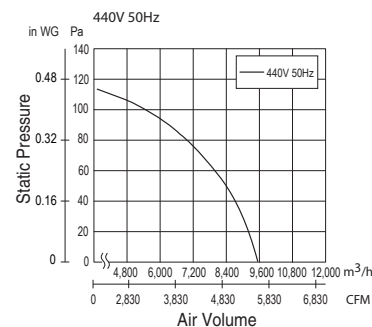
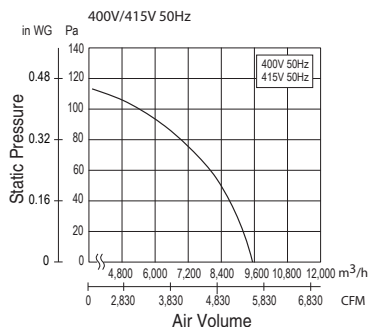
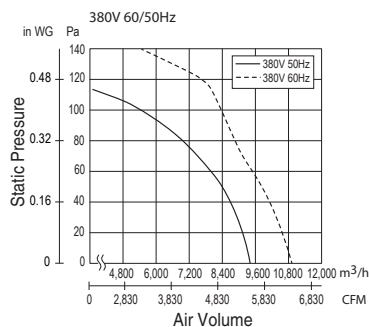
- Three phase
- Bell mouth construction with wave-shaped blade
- Durable powder coating
- High performance motor with thermal cutoff
- Reversible by adjusting wiring and blade
- Ambient temperature from -10°C to +50°C
- Possible to install horizontally or vertically
- Optional shutter available

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Phase	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
		[V]	[Hz]	[m ³ /h]	[CFM]				
60GTC	3	380	50	9,420	5,544	310	940	49	34.0
			60	10,920	6,427	450	1,070	53	
	3	415	50	9,540	5,615	325	950	49	
	3	440	50	9,540	5,615	335	950	49	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Shutter Series

Industrial Type Ventilation Fan

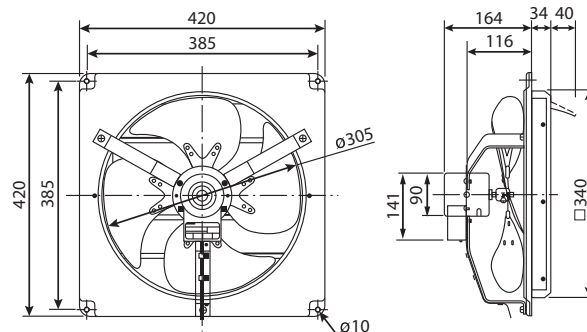


30KQT

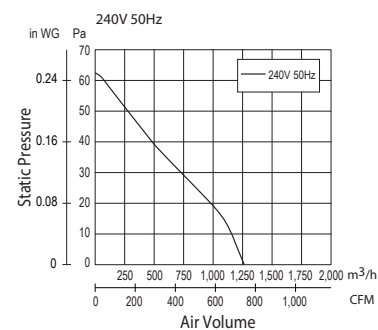
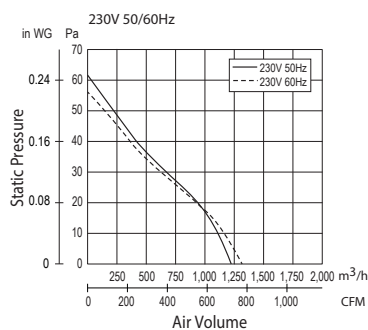
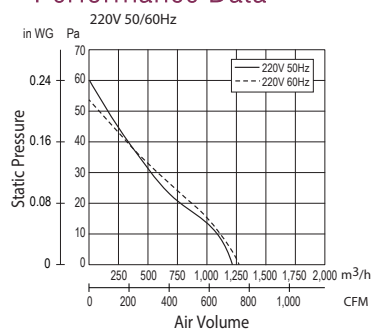
High efficient condenser motor with thermal cutoff
Large metal blade assembly for abundant air volume
Automatic shutter equipped
Durable paint coating
Ambient temperature from -10°C to +50°C
Suitable for factories, warehouses, etc.

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m³/h]	[CFM]				
30KQT	220	50	1,220	718	42	1,185	45.5	4.9
		60	1,270	747	51	1,255	46.5	
	230	50	1,230	724	44	1,210	46	
	240	50	1,260	742	47	1,240	46.5	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Shutter Series

Industrial Type Ventilation Fan

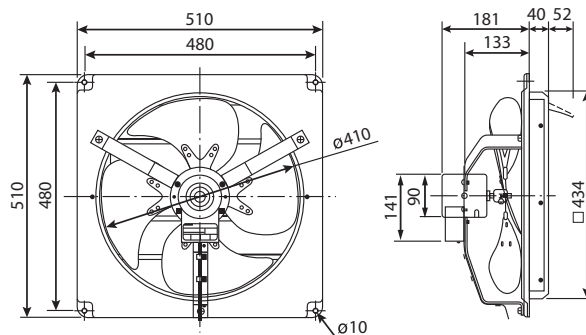


40KQT

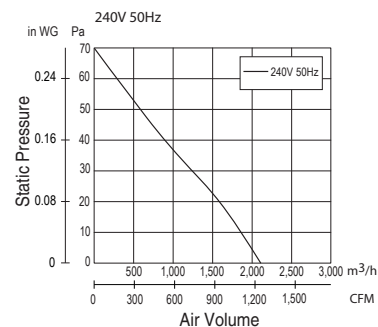
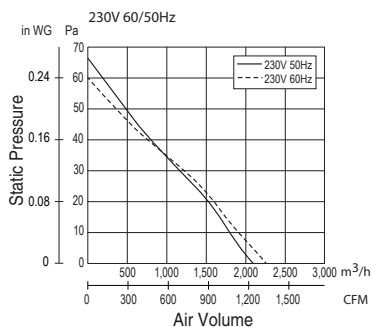
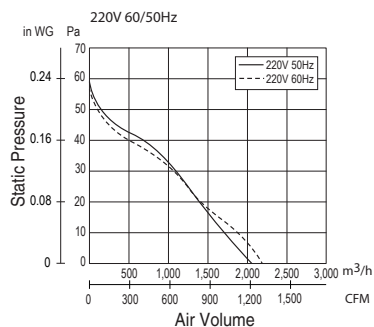
High efficient condenser motor with thermal cutoff
Large metal blade assembly for abundant air volume
Automatic shutter equipped
Durable paint coating
Ambient temperature from -10°C to +50°C
Suitable for factories, warehouses, etc.

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m ³ /h]	[CFM]				
40KQT	220	50	2,060	1,212	61	1,175	49	6.4
		60	2,190	1,289	76	1,260	51	
	230	50	2,100	1,236	64	1,200	50	
	240	50	2,110	1,242	68	1,220	50.5	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Industrial Type Ventilation Fan

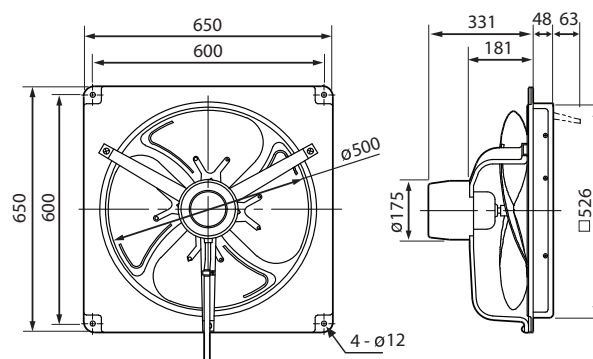


50AEQ2

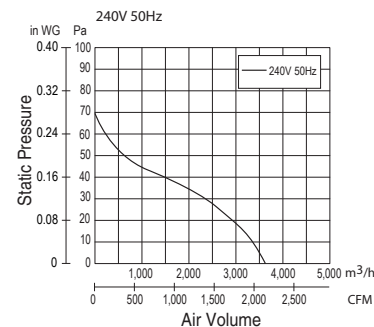
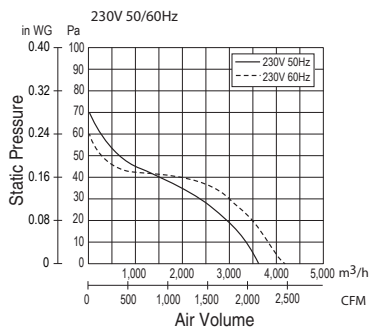
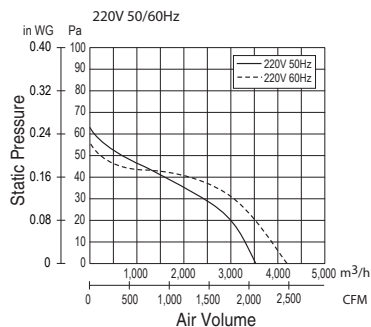
High efficient condenser motor with thermal cutoff
 Large metal blade assembly for abundant air volume
 Automatic shutter equipped
 Durable paint coating
 Ambient temperature from -10°C to +40°C
 Suitable for factories, warehouses, etc.

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]
	[V]	[Hz]	[m³/h]	[CFM]				
50AEQ2	220	50	3,630	2,137	108	920	54	11.5
		60	4,200	2,472	130	1,050	58	
	240	50	3,480	2,048	110	930	55	

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Shutter

Optional Accessories



25GASC
30GASC
35GASC
40GASC
45GASC
50GASC
60GASC

Auto shutter for High Pressure Series

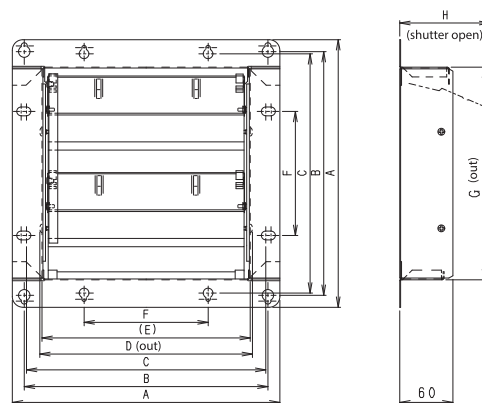
Steel material

Durable powder coating

Available for wall mounting

Dimension

Unit : mm



Model No.	Size	A	B	C	D	E	F	G	H	Nos of Shutter	Applicable For
25GASC	25cm/10"	330	303	298	268	263	165	268	137	2	25GSE
30GASC	30cm/12"	381	354	349	319	314	210	319	122	3	30GSE
35GASC	35cm/14"	468	433	434	389	384	250	389	137	3	35GSE
40GASC	40cm/16"	519	484	485	440	435	280	440	122	4	40GSE
45GASC	45cm/18"	574	539	540	492	487	320	492	137	5	45GSC, 45GTC
50GASC	50cm/20"	660	625	620	545	540	355	545	122	5	50GSC, 50GTC
60GASC	60cm/24"	760	725	720	662	657	440	662	122	6	60GSC, 60GTC

Wall Mount Type Ventilation Fan

- 60 Filter Series
- 61-62 Bathroom Series
- 63-65 Automatic Shutter Series
- 66-67 Automatic Shutter Louver Series
- 68-69 Reversible Series
- 70-71 Reversible Louver Series
- 72 Metallic Series
- 73 Plastic Series

Wall Mount Ventilation Fans shall be installed in and exhaust air through a wall. They are equipped with outside shutters which will open when the fan is on and vice versa. There is a wide range of products, either blade size or functions, that can fit to various requirements.

Filter Series collects oil effectively that is ideal for the use in kitchen. Louver Series provides additional safety protection from finger reach while Reversible Series extends the flexibility of utilization by selection of exhaust or intake. Metallic Series is suitable for the place in where resin ventilation fan cannot be used.

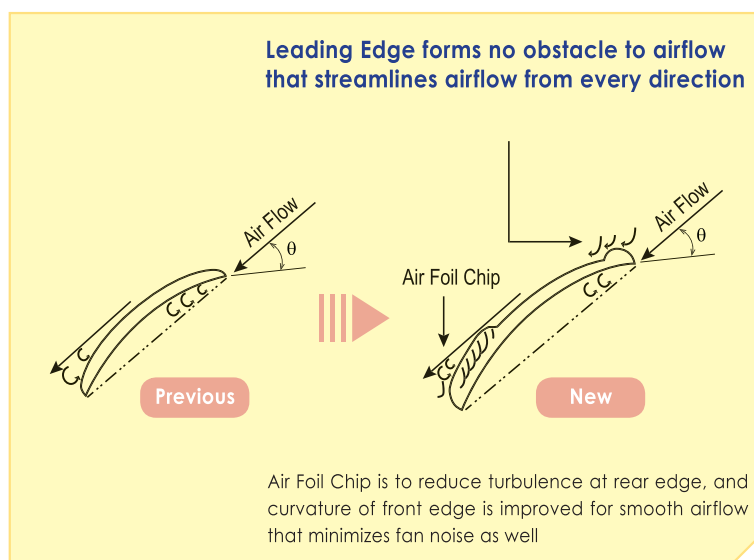


General Feature

Advanced Blade Design

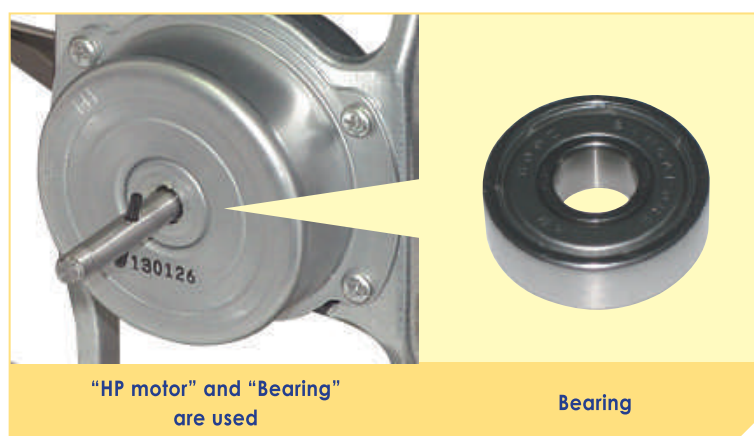
(Except Bathroom Series, Metallic Series and Plastic Series)

New blade design applies advanced aerodynamic principle that minimizes any obstacles against the airflow.



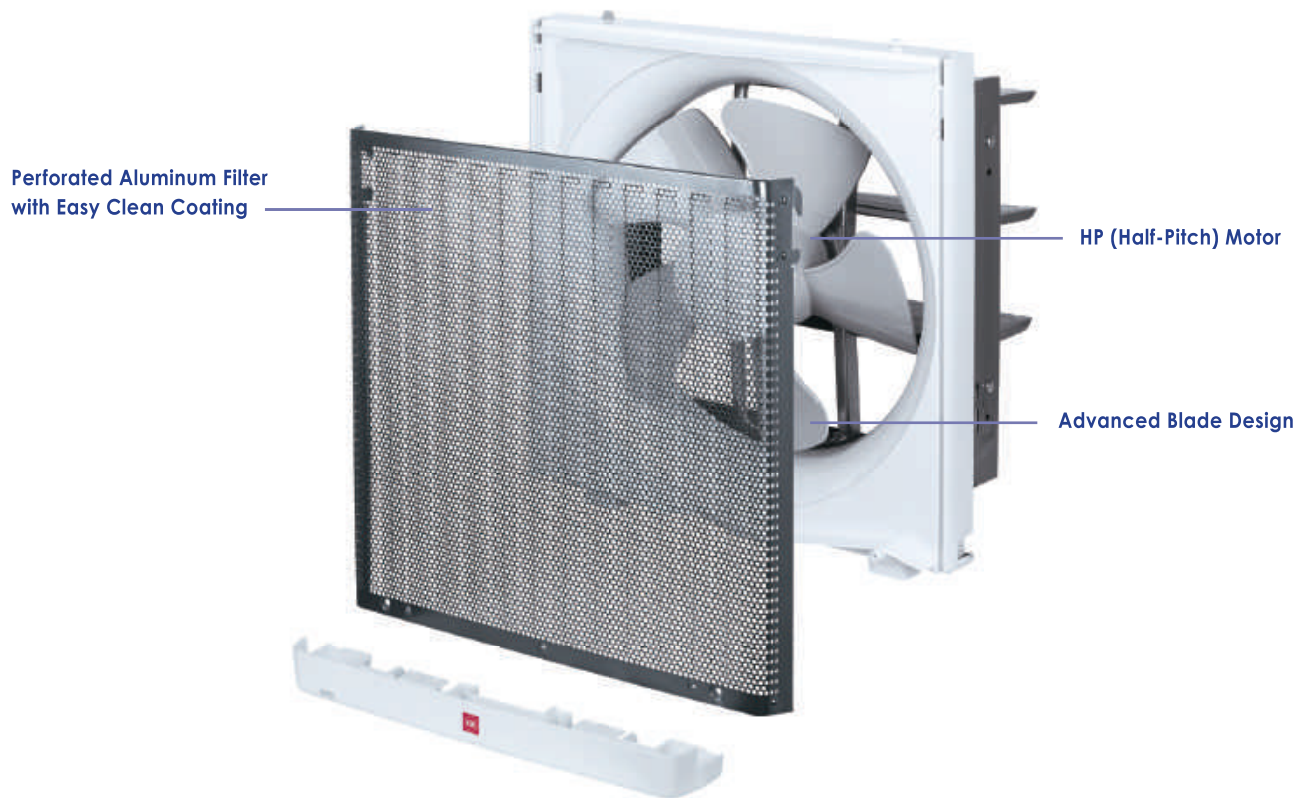
HP (Half-Pitch) Motor & Bearing

Compared with previous models, new models adopt HP (Half-Pitch) condenser motor and long life bearing that prolong the product durability, from average 30,000 hours lifetime to 60,000 hours. They also enable energy saving by reducing power consumption down to average 13%. (*)



(*) For Automatic Shutter Series, Automatic Shutter Louver Series, Reversible Series and Reversible Louver Series

Feature of 25AUFA



1 Perforated Aluminum Filter - Durable

The filter adopts aluminum material to assure excellent durability, and it is easy detachable for cleaning and maintenance.

2 Oil Collecting – Environmental Friendly

The perforated filter is competent in collecting oil. It allows the air exhausted to outdoor is less polluted that improves the air quality of surrounding.

3 Easy Clean Coating - Convenient

The perforated aluminum filter is processed with an easy-clean coating name "Hydrophobic Coating". It is basically a paint composed of fluorine compound particles that have small affinity with water or oil. This material has low surface tension allowing oil droplets falling on without adhering to the material.

ORDINARY COATING



Oil spreads out and sticks firmly on the surface of the ordinary coating.

HYDROPHOBIC COATING



Oil droplets form spherical shape when falling on the material that can prevent adhering to the surface.

Note: this is image pictures and for easy understanding only

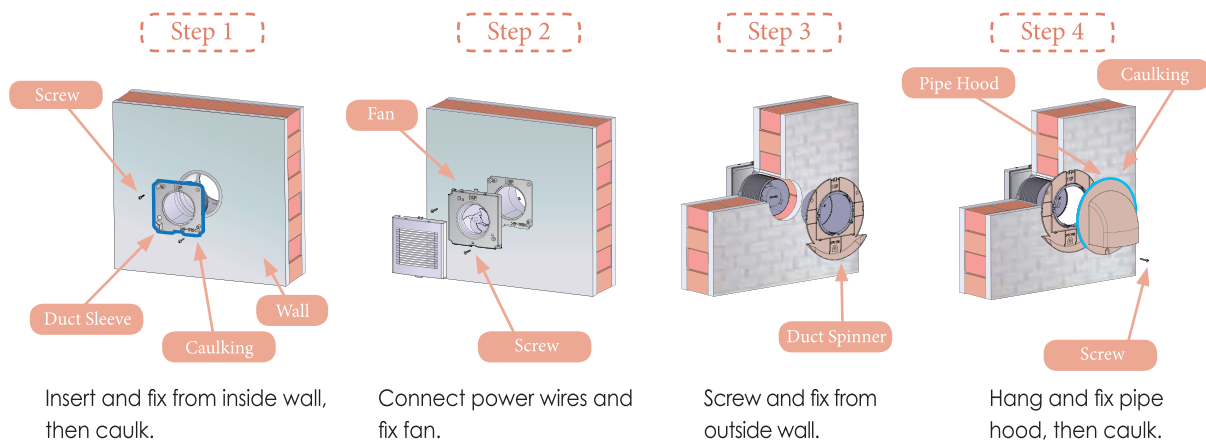
Feature of Bathroom Series

1

Easy Installation

The Exhauster is well-designed to facilitate the installation of product. With the supplied accessories, only few steps are required to complete the setup of fan.

Pipe Hood Series

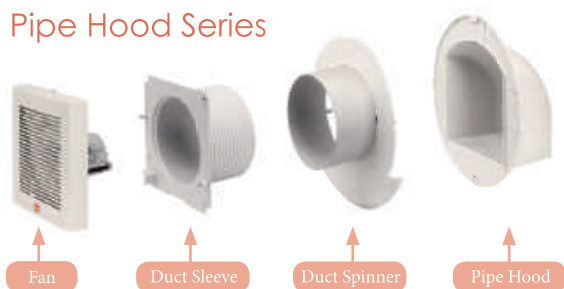


2

All Accessories Included

The Moisture & Smell Exhauster includes all required accessories in the packaging. It provides you the most convenience for product purchase, and also saves your time for seeking available accessories in the market.

Pipe Hood Series

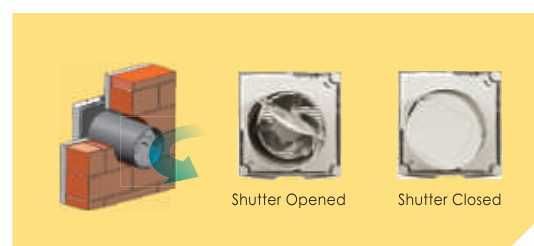


3

Backdraft Shutter

Shutter Series (For Vertical Shaft) only

Outside wind may flow inside the house through the duct when the fan is not operating. The backdraft shutter covers the duct hole as the fan is not in use that blocks the ingress of wind and water.

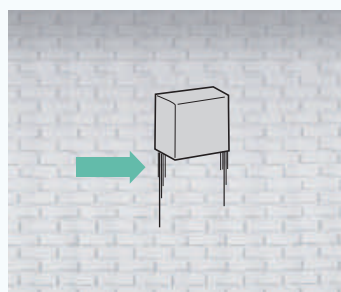


4

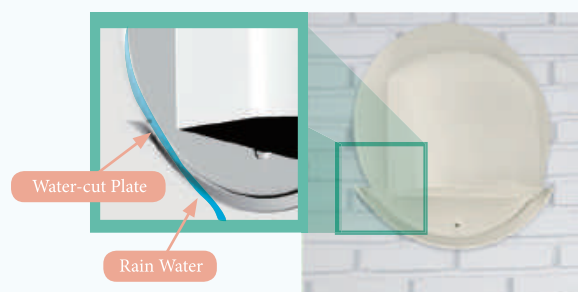
Trace Prevention

Pipe Hood Series only

When it rains, rainwater flowing along pipe hood may cause trace marks on the wall. The exclusively designed duct ring leads the water flow to get rid of traces on the wall.



With a standard pipe hood, rainwater may cause trace mark on the wall.



The water-cut plate of duct ring leads water flow over the wall to avoid forming of trace mark on the wall.

Wall Mount Type Ventilation Fan

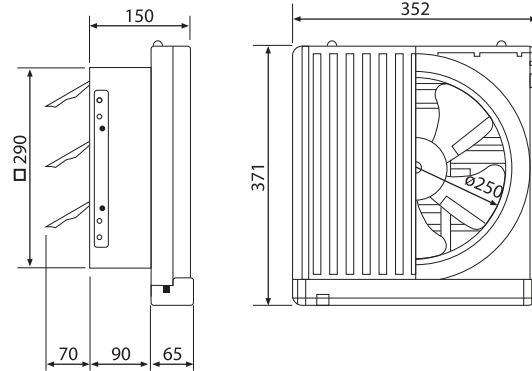


25AUFA

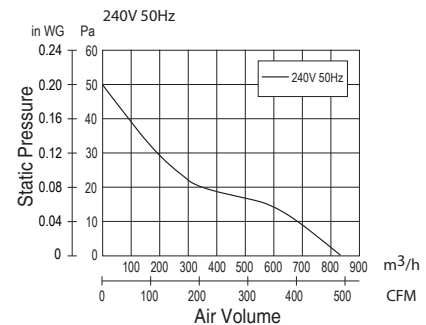
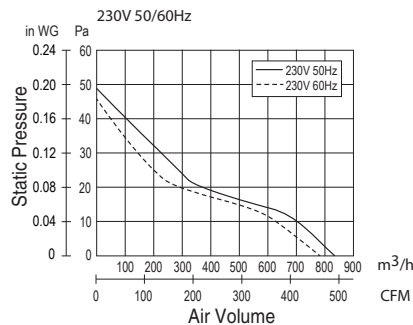
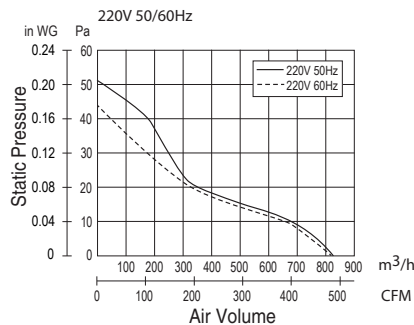
- Perforated aluminum filter for oil capture
- Filter with hydrophobic coating allows easy clean
- Large capacity oil cup with oil level indicator
- Condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Automatic shutter
- Powerful exhaust under actual usage condition (20 Pa)

Dimension

Unit : mm



Performance Data



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m³/h]	[CFM]					
25AUFA	220	50	835	491	34	1,100	42	2.8	300 x 300
		60	820	483	34	1,060	42		
	230	50	790	465	31	1,050	41		
	240	50	835	491	34	1,100	42		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Bathroom Series



10EGKA
15EGKA

Pipe hood series

Powerful exhaust of excess moisture and smell

Prevent rain water trace by water-cut plate at duct ring

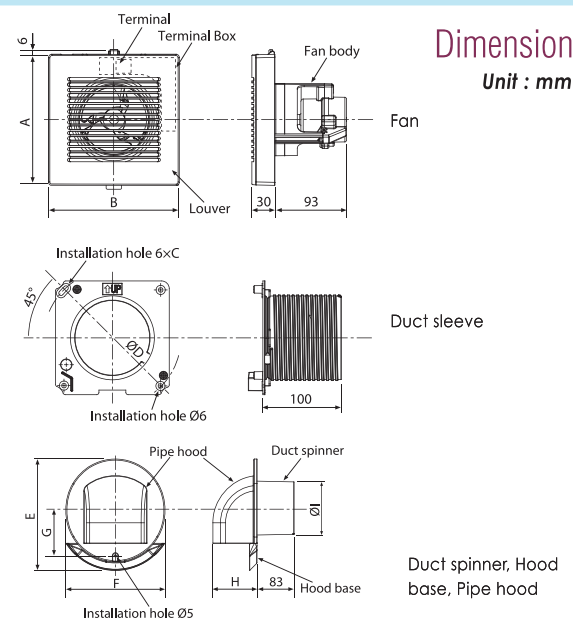
All accessories included for most convenience

Condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Easy installation with only few steps

Wall Mount Type Ventilation Fan



Model No.	A	B	C	D	E	F	G	H	I
10EGKA	170	170	9.3	177	250	220	107	99	120
15EGKA	220	220	11.5	221	310	270	142	138	165

Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]	Wall Thickness [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]						
10EGKA	220	50	75	44	5.5	2,706	33	1.2	ø135±5	100-150
		60	80	47	4.4	2,888	34			
	230	50	76	45	5.9	2,720	33			
	240	50	76	45	6.4	2,732	33			
15EGKA	220	50	160	94	6.2	2,329	34	1.5	ø180±5	100-150
		60	180	106	8.5	2,647	38			
	230	50	163	96	6.6	2,369	35			
	240	50	163	96	6.9	2,405	35			

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Bathroom Series

Wall Mount Type Ventilation Fan

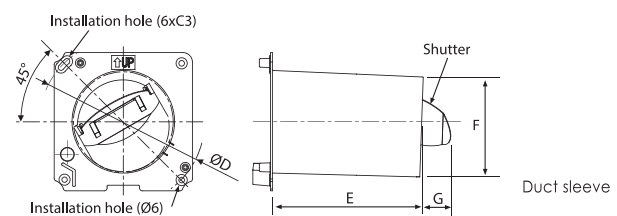
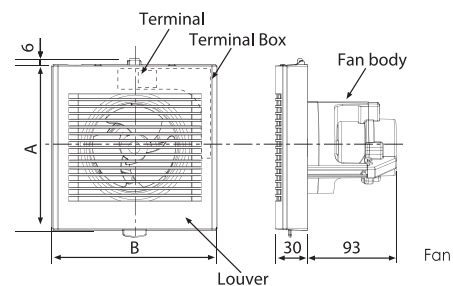


10EGSA
15EGSA

Shutter series (for vertical shaft)
Powerful exhaust of excess moisture and smell
Back draft shutter equipped
All accessories included for most convenience
Condenser motor with thermal cutoff
Well lubricated ball bearing for long life operation
Easy installation with only few steps

Dimension

Unit : mm



Model No.	A	B	C	D	E	F	G
10EGSA	170	170	9.3	177	160	115	40
15EGSA	220	220	11.5	221	160	160	80

Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
10EGSA	220	50	75	44	5.5	2,706	35	0.9	ø120 - ø125
		60	80	47	4.4	2,888	36		
	230	50	75	44	5.9	2,720	35		
	240	50	75	44	6.4	2,732	35		
15EGSA	220	50	150	88	6.2	2,329	36	1.1	ø165 - ø170
		60	175	103	8.5	2,647	40		
	230	50	155	91	6.6	2,369	37		
	240	50	155	91	6.9	2,405	37		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Automatic Shutter Series

Wall Mount Type Ventilation Fan

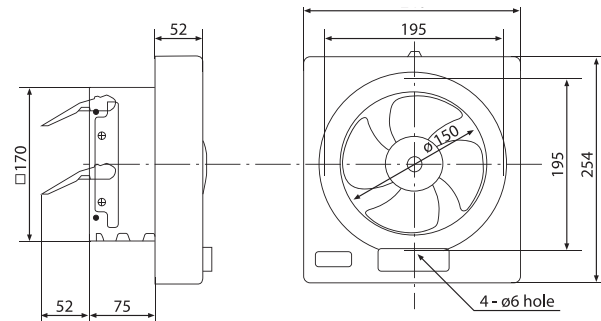


Dimension

Unit : mm

15AAQ1

- Condenser motor with thermal cutoff
- Lubricated sintered bush for long life operation
- High performance propeller fan adopted
- Automatic shutter with plastic cushions
- Orifice equipped with oil cup



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
15AAQ1	220	50	288	170	15	1,480	31	1.4	175 x 175
		60	306	180	19	1,560	34		
	230	50	294	173	17	1,512	33		
	240	50	307	180	19	1,560	33		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Wall Mount Type Ventilation Fan



20AUH
25AUH
30AUH

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Propeller fan with advanced blade design (except 30AUH)

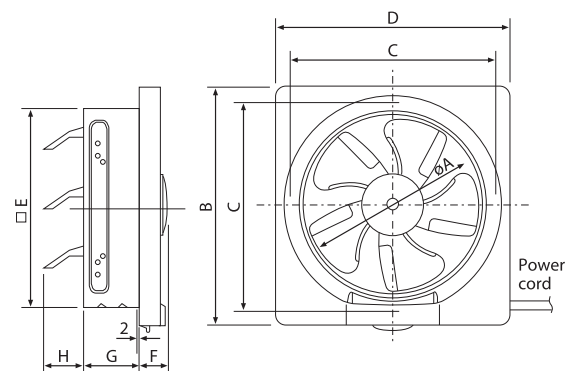
Automatic shutter

Orifice equipped with oil cup

Automatic Shutter Series

Dimension

Unit : mm



Model No.	A	B	C	D	E	F	G	H
20AUH	200	306	260	302	240	52	90	80
25AUH	250	356	310	352	290	38	90	63
30AUH	300	406	360	402	340	38	90	78

Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
20AUH	220	50	580	341	22	1,245	38	2.0	250 x 250
		60	650	383	29	1,400	42		
25AUH	220	50	920	541	29	1,125	39	2.4	300 x 300
		60	940	553	33	1,125	39		
30AUH	220	50	1,200	706	29	1,030	39	2.7	350 x 350
		60	1,140	671	33	950	38		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Automatic Shutter Series

Wall Mount Type Ventilation Fan



20AUHT
25AUHT
30AUHT

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

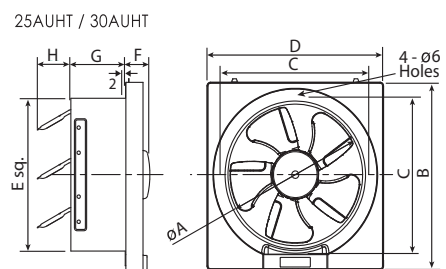
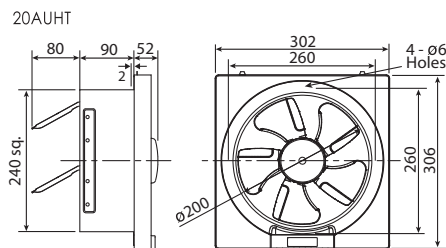
Propeller fan with advanced blade design (except 30AUHT)

Automatic shutter

Orifice equipped with oil cup

Dimension

Unit : mm



Model	A	B	C	D	E	F	G	H
25AUHT	250	356	310	352	290	38	90	63
30AUHT	300	406	360	402	340	38	90	78

Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
20AUHT	220	50	580	341	20	1,250	37.5	2.0	250 x 250
		60	650	383	24	1,400	41.5		
	230	50	610	359	21	1,270	38		
		50	620	365	23	1,290	38		
25AUHT	220	50	920	541	27	1,070	39	2.4	300 x 300
		60	940	553	31	1,125	39		
	230	50	940	553	29	1,100	42		
		50	960	565	32	1,170	42		
30AUHT	220	50	1,200	706	31	1,000	39	2.7	350 x 350
		60	1,140	671	38	1,000	38		
	230	50	1,206	710	35	980	40		
		50	1,250	736	39	1,010	42		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Automatic Shutter Louver Series

Wall Mount Type Ventilation Fan



20ALH
25ALH
30ALF

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Propeller fan with advanced blade design (except 30ALF)

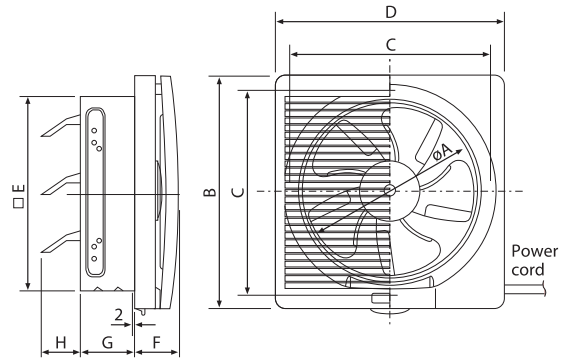
Automatic shutter

Orifice equipped with oil cup

Blind shutter louver enhances privacy and safety

Dimension

Unit : mm



Model No.	A	B	C	D	E	F	G	H
20ALH	200	306	260	302	240	68	90	80
25ALH	250	356	310	352	290	63	90	63
30ALF	300	400	360	400	340	63	90	78

Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
20ALH	220	50	546	321	22	1,210	40	2.2	250 x 250
		60	600	353	29	1,340	44		
25ALH	220	50	835	491	29	1,055	43	2.7	300 x 300
		60	846	498	33	1,050	43		
30ALF	220	50	935	550	29	905	43	3.1	350 x 350
		60	915	539	33	835	43		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Automatic Shutter Louver Series

Wall Mount Type Ventilation Fan



20ALHT
25ALHT
30ALFT

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Propeller fan with advanced blade design (except 30ALFT)

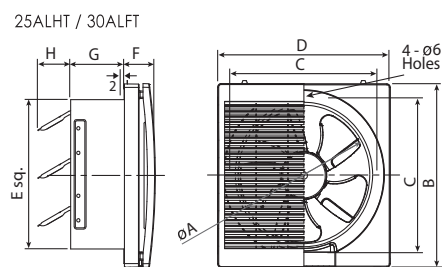
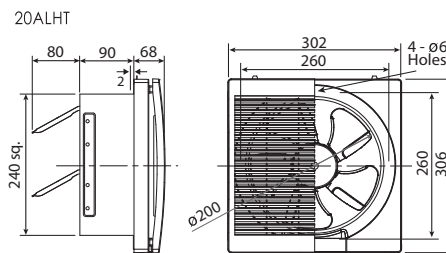
Automatic shutter

Orifice equipped with oil cup

Blind shutter louver enhances privacy and safety

Dimension

Unit : mm



Model	A	B	C	D	E	F	G	H
25ALHT	250	356	310	352	290	63	90	63
30ALFT	300	406	360	402	340	63	90	78

Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
20ALHT	220	50	546	321	20	1,190	40	2.2	250 x 250
		60	600	353	24	1,340	44		
	230	50	540	318	22	1,210	42		
		50	550	324	23	1,240	43		
25ALHT	220	50	835	491	27	1,060	43	2.7	300 x 300
		60	846	498	36	1,110	43		
	230	50	840	494	30	1,105	43		
		50	852	501	32	1,135	44		
30ALFT	220	50	935	550	31	880	43	3.1	350 x 350
		60	915	539	38	880	43		
	230	50	930	547	35	900	43		
		50	1,050	618	40	930	48		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Reversible Series

Wall Mount Type Ventilation Fan



20RGF
25RGF
30RGF

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Propeller fan with advanced blade design (except 30RGF)

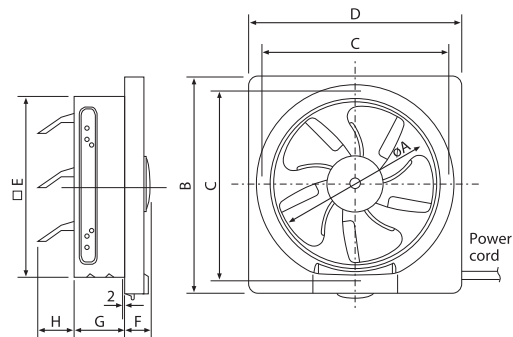
On-off and reverse changeover by pull cord switch

Orifice equipped with oil cup

Open / Close of shutter operated by pull cord

Dimension

Unit : mm



Model No.	A	B	C	D	E	F	G	H
20RGF	200	306	260	302	240	52	90	80
25RGF	250	356	310	352	290	38	90	63
30RGF	300	406	360	402	340	38	90	78

Technical Specification

Model No.	Voltage			Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]		[m ³ /h]	[CFM]					
20RGF	220	50	Exhaust	580	341	20	1,290	36	2.2	250 x 250
			Intake	405	238	16	1,100	46		
		60	Exhaust	650	383	25	1,440	39		
			Intake	355	209	17	1,070	48		
25RGF	220	50	Exhaust	945	556	29	1,120	38	2.4	300 x 300
			Intake	640	377	20	990	45		
		60	Exhaust	950	559	34	1,145	39		
			Intake	645	380	24	995	44		
30RGF	220	50	Exhaust	1,165	686	31	990	39	2.8	350 x 350
			Intake	800	471	24	905	43		
		60	Exhaust	1,150	677	33	995	38		
			Intake	745	438	24	810	42		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Reversible Series



20RGFT
25RGFT
30RGFT

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Propeller fan with advanced blade design (except 30RGFT)

On-off and reverse changeover by pull cord switch

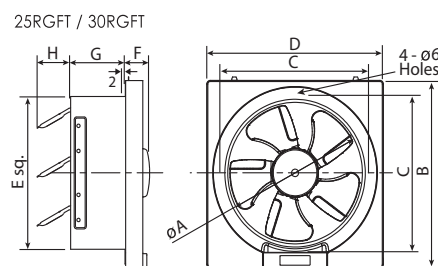
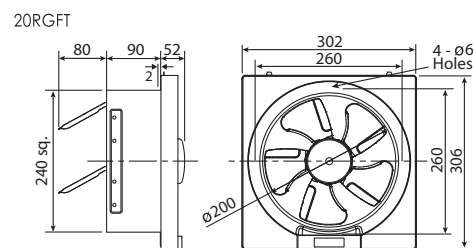
Orifice equipped with oil cup

Open / Close of shutter operated by pull cord

Wall Mount Type Ventilation Fan

Dimension

Unit : mm



Model No.	A	B	C	D	E	F	G	H
25RGFT	250	356	310	352	290	38	90	63
30RGFT	300	406	360	402	340	38	90	78

Technical Specification

Model No.	Voltage			Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]		[m ³ /h]	[CFM]					
20RGFT	220	50	Exhaust	580	341	20	1,260	36	2.2	250 x 250
			Intake	405	238	15	1,150	46		
	220	60	Exhaust	630	371	24	1,410	39		
			Intake	355	209	17	1,140	46		
	230	50	Exhaust	600	353	21	1,270	38		
			Intake	410	241	16	1,190	46		
25RGFT	240	50	Exhaust	600	353	23	1,290	38	2.4	300 x 300
			Intake	420	247	17	1,220	46		
	220	50	Exhaust	945	556	27	1,090	38		
			Intake	600	353	21	1,010	45		
	220	60	Exhaust	950	559	31	1,110	39		
			Intake	560	330	23	970	44		
30RGFT	230	50	Exhaust	950	559	29	1,120	42	2.8	350 x 350
			Intake	610	359	23	1,060	46		
	240	50	Exhaust	978	576	32	1,160	42		
			Intake	640	377	25	1,110	47		
	220	50	Exhaust	1,165	686	31	885	39		
			Intake	700	412	24	840	43		
30RGFT	220	60	Exhaust	1,000	589	38	800	38	2.8	350 x 350
			Intake	680	400	26	810	42		
	230	50	Exhaust	1,050	618	35	930	42		
			Intake	700	412	28	840	45		
	240	50	Exhaust	1,170	689	40	990	42		
			Intake	800	471	30	915	46		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa

- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance

- The values of noise level are measured at 1 m apart from the side of fan body

- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Reversible Louver Series

Wall Mount Type Ventilation Fan



20RLF
25RLF
30RLE

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Propeller fan with advanced blade design (except 30RLE)

On-off and reverse changeover by pull cord switch

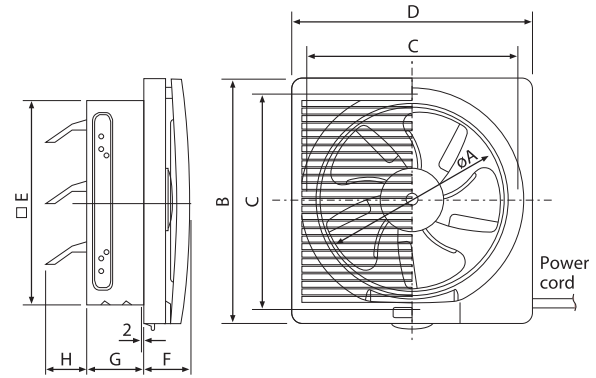
Orifice equipped with oil cup

Open / Close of shutter operated by pull cord

Blind shutter louver enhances privacy and safety

Dimension

Unit : mm



Model No.	A	B	C	D	E	F	G	H
20RLF	200	306	260	302	240	68	90	80
25RLF	250	356	310	352	290	63	90	63
30RLE	300	400	360	400	340	63	90	78

Technical Specification

Model No.	Voltage			Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]		[m ³ /h]	[CFM]					
20RLF	220	50	Exhaust	546	321	20	1,275	39	2.4	250 x 250
			Intake	385	227	17	1,225	46		
		60	Exhaust	600	353	25	1,290	43		
			Intake	340	200	17	1,145	49		
25RLF	220	50	Exhaust	876	516	29	1,060	41	2.7	300 x 300
			Intake	570	335	20	1,020	45		
		60	Exhaust	835	491	34	1,060	41		
			Intake	575	338	24	970	43		
30RLE	220	50	Exhaust	990	583	31	876	44	3.1	350 x 350
			Intake	730	430	24	850	43		
		60	Exhaust	945	556	33	835	43		
			Intake	690	406	24	776	44		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Reversible Louver Series



20RLFT
25RLFT
30RLET

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Propeller fan with advanced blade design (except 30RLET)

On-off and reverse changeover by pull cord switch

Orifice equipped with oil cup

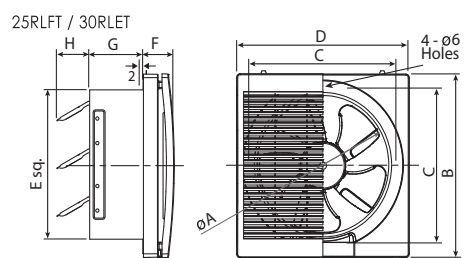
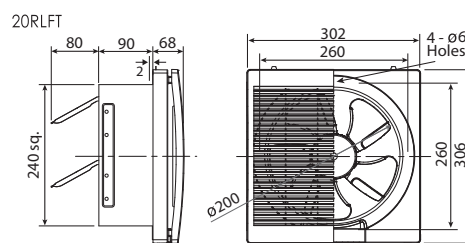
Open / Close of shutter operated by pull cord

Blind shutter louver enhances privacy and safety

Wall Mount Type Ventilation Fan

Dimension

Unit : mm



Model No.	A	B	C	D	E	F	G	H
25RLFT	250	356	310	352	290	63	90	63
30RLET	300	406	360	402	340	63	90	78

Technical Specification

Model No.	Voltage			Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]		[m ³ /h]	[CFM]					
20RLFT	220	50	Exhaust	546	321	20	1,240	39	2.4	250 x 250
			Intake	370	218	15	1,190	46		
	230	50	Exhaust	570	335	24	1,290	43		
			Intake	340	200	17	1,180	46		
	240	50	Exhaust	550	324	22	1,260	42		
			Intake	380	224	16	1,220	46		
25RLFT	220	50	Exhaust	550	324	23	1,280	43	2.7	300 x 300
			Intake	390	230	17	1,250	46		
	230	50	Exhaust	840	494	29	1,100	43		
			Intake	580	341	21	1,035	45		
	240	50	Exhaust	835	491	33	1,100	43		
			Intake	560	330	23.5	1,035	44.5		
30RLET	220	50	Exhaust	840	494	32	1,097	43.5	3.1	350 x 350
			Intake	600	353	23	1,070	47		
	230	50	Exhaust	858	505	34	1,150	44		
			Intake	620	365	25	1,110	47		
	240	50	Exhaust	990	583	31	890	44		
			Intake	730	430	25	770	43		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Wall Mount Type Ventilation Fan



20ASB
25ASB
30ASB

High performance condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Highly efficient propeller fan adopted

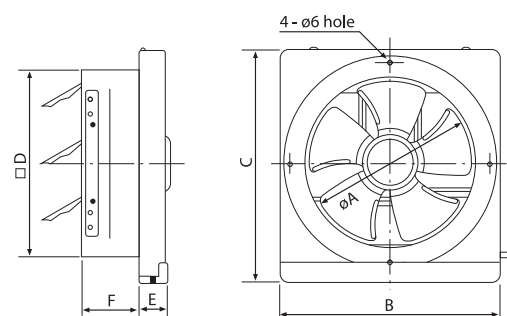
Metallic structure with powder coating for fire safety and anti-rust

Detachable metal oil cup for convenient cleaning

Automatic shutter

Dimension

Unit : mm



Model No.	A	B	C	D	E	F
20ASB	200	300	312	240	50	90
25ASB	250	350	362	290	45	90
30ASB	300	400	412	340	45	90

Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
20ASB	220	50	516	304	17	1,220	37.5	3.3	250 x 250
		60	612	360	21.5	1,390	40.6		
	230	50	528	311	18.1	1,235	38.1		
	240	50	540	318	19.5	1,250	38.4		
25ASB	220	50	858	505	25	1,200	39.1	3.8	300 x 300
		60	954	562	30.5	1,212	40.6		
	230	50	864	509	27.3	1,225	39.3		
	240	50	888	523	29.5	1,240	39.7		
30ASB	220	50	1,182	696	29.5	1,046	39.2	4.4	350 x 350
		60	1,164	685	34.5	1,091	39		
	230	50	1,248	735	31.7	1,100	40.6		
	240	50	1,290	759	34	1,130	41.3		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Plastic Series

Wall Mount Type Ventilation Fan



Dimension

Unit : mm

10BAQ1

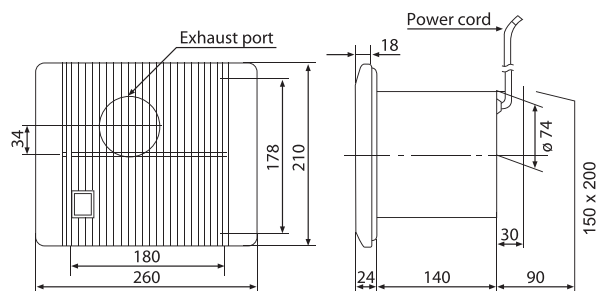
Condenser motor with thermal cutoff

Lubricated sintered bush for long life operation

Highly efficient sirocco fan

Blind shutter louver enhances privacy and safety

Plastic frame, blade and louver



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
10BAQ1	220	50	76.3	45	15	1,250	40.1	1.7	155 x 205
		60	72.9	43	17	1,200	39.8		
	230	50	80.3	47	16	1,300	41.2		
	240	50	84.9	50	17.5	1,385	42		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Window Mount Type Ventilation Fan

- 77 Electric Shutter Series
- 78 Automatic Shutter Series
- 79 Cord-operated Shutter Series

Window Mount Ventilation fans shall be mounted in and exhaust air through a glass plate. One person can do installation from interior of the room. This saves both the cost of installation and making a wall opening.

Various series are available for different usages. Cord Operated Shutter Series can be easily installed in any glass windowpane. Electric Shutter Series and Automatic Shutter Series maintain airtightness as the fan is turned off.

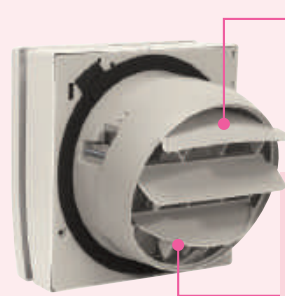


Feature of Electric Shutter Series

1 Rain proof and wind resistible

Hood structure for prevention of rainwater ingress

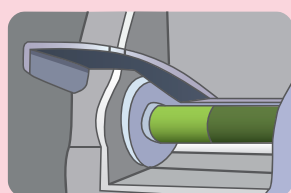
High static pressure blade can prevent ingress of rain & wind during operation



Newly designed of shutter can keep out entry of rainwater effectively

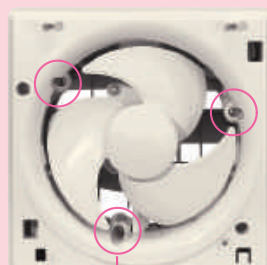
Bent End Structure of the shutter can block the backflow of outside wind

2 Easy Installation

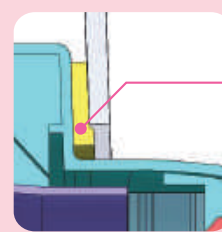
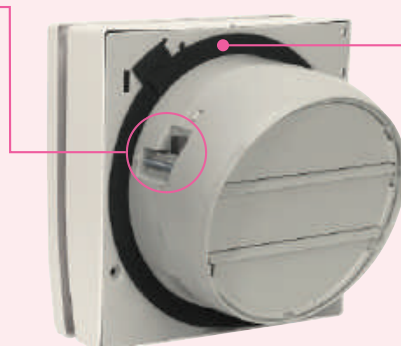


Mounting Bracket
Unique design of mounting bracket can fix the fan on glass plate with simple process

Example: 15WHCT



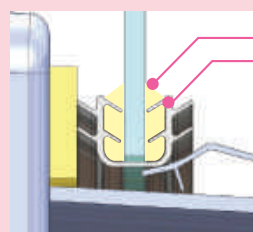
Orifice is not necessary to detach for installation. Simply fix the fan on glass plate by screws at front



Packing
-No Gasket
-No Silicon Seal

Attached packing tightly closes to the glass plate that gets rid of water leakage to indoor

Previous Setting Method

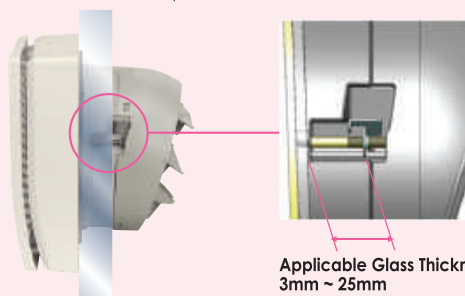


Silicon Seal Gasket

Both gasket & silicon seal are not required for 15WHCT / 20WHCT

3 High Adaptability

New mounting design allows the fan to be fixed on glass plate of thickness from 3mm up to 25mm with ease



Applicable Glass Thickness
3mm ~ 25mm

Double glass

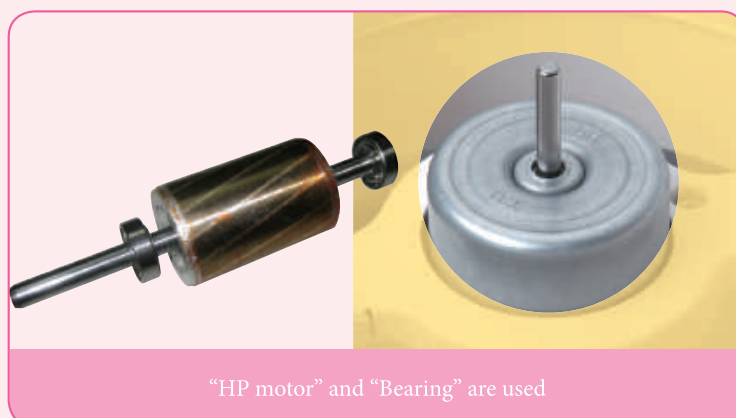
Often called insulated glass, this kind of glass is constructed of two panes of glass set apart to allow airspace in between. This airspace acts as a buffer which obstructs the transfer of heat from one side of the glass to the other.



Feature of Cord-operated Series

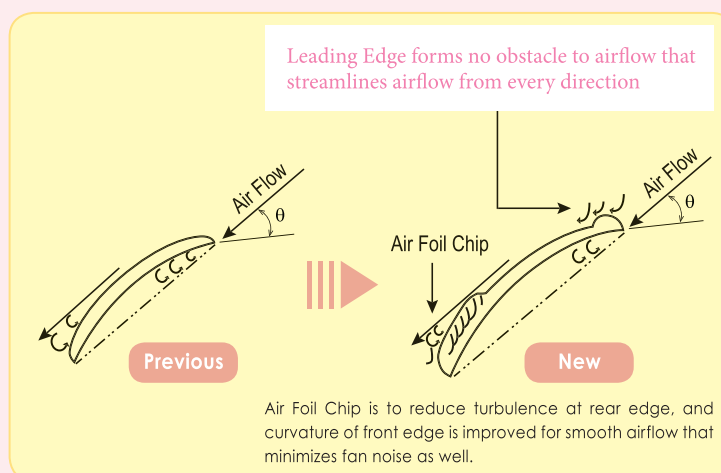
1 High performance condenser motor with long life bearing

- Low power consumption (50% down VS previous model)
- Low noise level (6% down VS previous model)
- Long life up to 40,000 hours (1.5 times VS previous model)
- Comply with IPX4 (outside)



2 Advanced Blade Design

- High air volume
- Low noise level
(6% down VS previous model)



3 Strengthened Shutter Structure

- Durable
- Sustainable to strong wind

Metallic shutter axis is used as the supporter for movement of shutter that provides a better endurance.



Electric Shutter Series

Window Mount Type Ventilation Fan



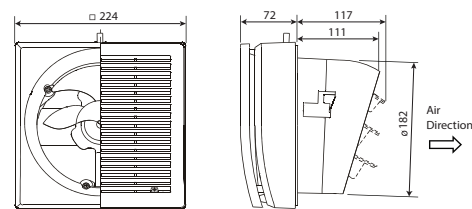
15WHCT
20WHCT

- HP (Half Pitch) condenser motor with thermal cutoff
- Well lubricated ball bearing for long life operation
- Propeller fan with advanced blade design
- Hood and bent end shutter enable rain proof and wind resistible
- Unique mounting brackets and easy installation design
- Installation without silicon seal and gasket
- Able to fix on glass plate with 3mm to 25mm thickness
- Blind shutter louver enhances privacy and safety

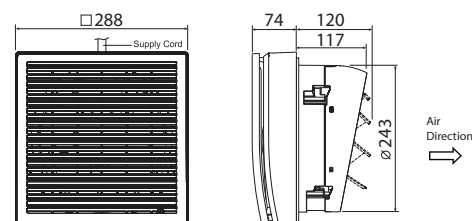
Dimension

Unit : mm

15WHCT



20WHCT



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
15WHCT	220	50	230	135	13	2,290	43	1.4	ø186-ø188
		60	230	135	13	2,375	44		
	230	50	230	135	14	2,305	43		
	240	50	230	135	15	2,315	43		
20WHCT	220	50	445	262	20	1,370	42	2.6	ø247-ø250
		60	480	283	22	1,470	45		
	230	50	445	262	21	1,375	42		
	240	50	445	262	22	1,380	42		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Window Mount Type Ventilation Fan



15WAA
20WAA

HP(Half Pitch) condenser motor with thermal cutoff

Well lubricated bearing for long life operation

Propeller fan incorporated with advanced blade design

Automatic shutter

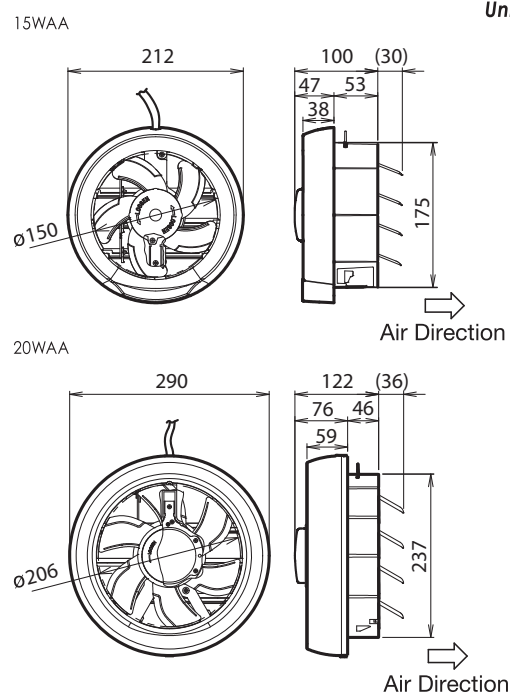
Metallic shutter axis enhances durability

Able to fix on glass plate with 3mm to 7mm thickness

Automatic Shutter Series

Dimension

Unit : mm



Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
15WAA	220	50	210	124	14	1,900	43	0.9	ø186-ø188
		60	222	131	18	1,950	44		
	230	50	222	131	15	1,950	44		
	240	50	228	134	16	1,980	44		
20WAA	220	50	380	224	15	1,320	42	1.4	ø247-ø250
		60	380	224	17	1,365	42		
	230	50	390	230	16	1,335	43		
	240	50	402	237	17.5	1,345	43		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Cord-operated Shutter Series

Window Mount Type Ventilation Fan



15WUD
20WUD

HP (Half Pitch) condenser motor with thermal cutoff

Well lubricated ball bearing for long life operation

Propeller fan with advanced blade design

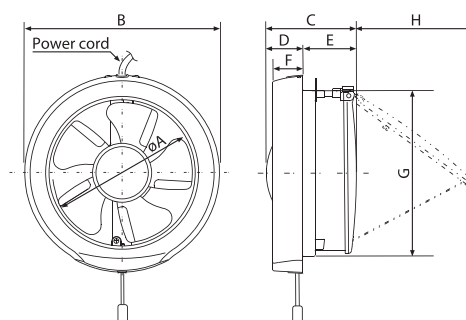
Shutter operated by pull cord

Metallic shutter axis enhances durability

Able to fix on glass plate with 3mm to 7mm thickness

Dimension

Unit : mm



Applicable Glass Thickness = 3mm-7mm

Model No.	A	B	C	D	E	F	G	H
15WUD	150	210	97	43	54	37.4	177	(149)
20WUD	200	271	98	36	62	36	237	(201)

Technical Specification

Model No.	Voltage		Air Volume		Consumption [W]	RPM [min ⁻¹]	Noise [dB(A)]	Weight [kg]	Installation Space [mm]
	[V]	[Hz]	[m ³ /h]	[CFM]					
15WUD	220	50	210	124	8.1	1,463	35	0.9	ø186-ø188
		60	200	118	8.9	1,393	34		
	230	50	220	129	8.8	1,566	36		
	240	50	230	135	9.5	1,657	37		
20WUD	220	50	360	212	16.4	1,042	32	1.3	ø247-ø250
		60	360	212	19	1,024	31		
	230	50	380	224	17.9	1,122	34		
	240	50	400	235	19.5	1,189	36		

Note : RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
- The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 to -7 dB tolerance
- The values of noise level are measured at 1 m apart from the side of fan body
- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance