

**MITSUBISHI  
ELECTRIC**  
VENTILATOR

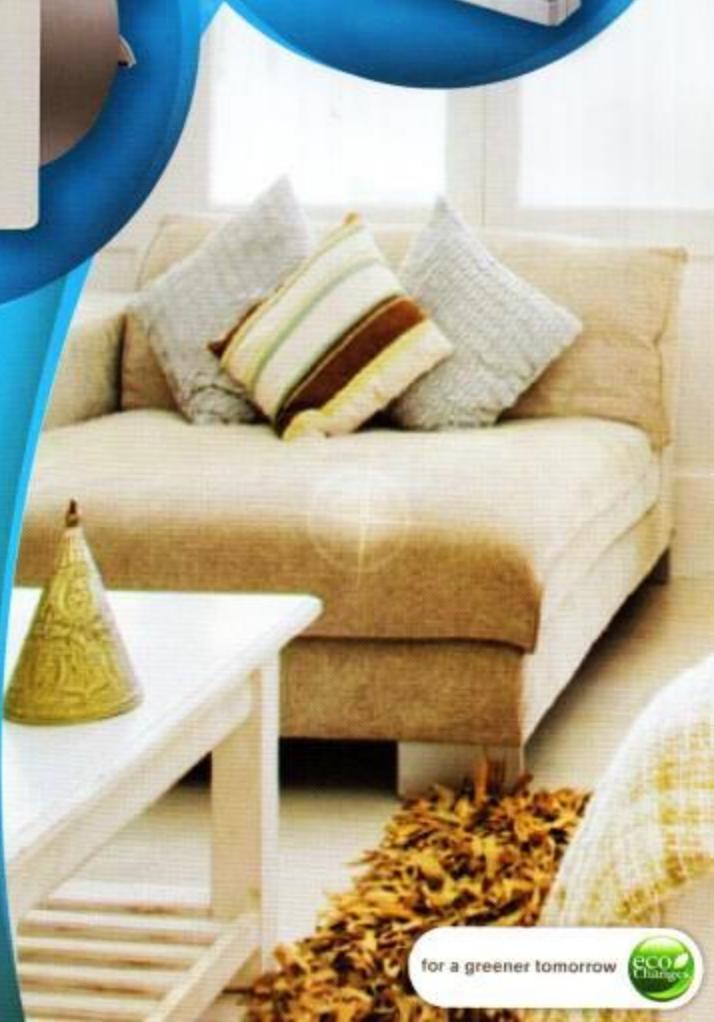
*Changes for the Better*

**M**itsubishi  
**E**lectric  
**Q**uality

# Expose

to satisfaction and comfortableness anywhere with

## **Premium Safety** standard at superior level



  
MITSUBISHI ELECTRIC  
**PREMIUM SAFETY**

for a greener tomorrow



# Expose

to satisfaction and comfortableness anywhere with

## Premium Safety

standard at superior level

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## Effect of Ventilation, what you should not be overlooked.

Today no one would deny that the air around us, no matter at work or at home, maybe silent. While, it will be brought to habitant health hazard as time passes cause of the mold and accumulation of bacteria in a non air circulation room, and the smell of smoke or damp harms health unaware. What is more, all sorts of tech appliance which can bring to life convenient may affect indoor temperature straightly. However it is not difficult to solve the above problems. That is, keep good air circulation in replacing exhaust emissions with pure and fresh air. It will make you not only feel comfortable but also benefit to health.



### Benefits of air ventilation

- 1) Reduce dust, smoke and fustiness
- 2) Reduce smell and heat from cooking
- 3) Reduce accumulated heat in the room and when operated with air conditioner
- 4) Decorate and purify the room

# Types and usages of ventilators

Types / Usages	 Wall mounted type	 Window mounted type	 Ceiling mounted type without duct	 Ceiling mounted type with duct
Reception room Living room	●	●	●	●
Sitting room	●	●	●	●
Kitchen	●	●	●	●
Toilet	●	●	●	●
Bedroom	●	●	●	●
Office	●	●	●	●

\* The table to choose various types of ventilators for different kinds of room.

\*\* In case of using ceiling mounted type without duct, ceiling is required to have air outlet.

## Examples of ventilator use in residences



### 3 air ventilation systems



#### • Total ventilation system

With the purpose to ventilate a room totally, the ventilator of comparatively large airflow is used.

#### • Local ventilation system

Ventilation is performed by installing a ventilation device near a place generating contaminated air locally. This system concentrates to exhaust the air in a local spot, while the total ventilation system aims to replace room air totally.

#### • Combination system of total and local ventilation

With the local ventilation system, some of contaminated air may leak outside according to the situation. To prevent this, the combination system is provided where a ventilator for total ventilation is installed in addition to the local ventilator.

## Efficient and good air ventilation plan



• unventilated area occurs

• Air ventilates only around window area

• Control air ventilation with Ex-Fan (Inflow air should be comparable with outflow air)

# Choosing the right ventilator size ...

## The Table to choose ventilators to suit various types of rooms

Selection Table

Place	Residential			Hotel		Office	Air Volume Required	Ductless			Use Duct
	Kitchen	Bathroom	Living room	Room	Bathroom	Office		Window	Wall	Ceiling	Ceiling
Air changes per hour	15	10	6	5	10	6	Model (Air Volume)			Model (Air Volume)	
Room Area (m <sup>2</sup> )							m <sup>3</sup> /h			Model (Air Volume)	
	2 (81)	2-3 (81)		7-10 (135)	2-3 (81)		100				VD-10Zera-C(95) VD-10Zera(95)
	3-4 (162)	4-6 (162)	6-10 (162)	11-14 (189)	4-6 (162)	7-10 (162)	200	V-15EWG(226) V-15SLrr(230)			VD-15Zera(155) VD-15Zera-C(155) VD-15Zera(215)
	5-7 (283.5)	7-10 (270)	11-17 (275.4)	15-16 (216)	7-10 (270)	11-14 (226.8)	300				VD-18Zera(330)
	8-9 (364.5)	11-14 (378)	18-23 (372.6)	17-21 (337.5)	7-10 (270)	15-16 (259.2)	400	V-20SLrr(370) V-20SLCx(410)	EX-20SHCar(520) EX-20SHCar(545)	EX-20SCar(460)	VD-20Zera(430) VD-20Zera(570-510) VD-23Zera(360-580)
	10-11 (445.5)	15-16 (432)	24-28 (453.6)	26-27 (364.5)	15-16 (432)	17-21 (340.2)	500		EX-20RHar (Ex540/Sp390)		
	12-14 (567)	17-21 (567)	29-35 (567)	17-21 (567)			600				
	15-16 (648)	22-25 (675)	36-41 (664.2)	22-25 (675)			700		EX-25SGar(780) EX-25SHCar(860) EX-25SHCar(920) EX-25RHar (Ex840/Sp560)	EX-25SCar(870)	
	17-18 (729)	26-27 (729)	42-47 (761.4)	26-27 (729)			800				
	19-21 (850.5)		48-50 (810)				900		EX-30SHCar(1120) EX-30SHCar(1120) EX-30RHar (Ex1130/Sp780)		VD-23Zera (415-715)
	22-23 (931.5)						1000				
	24-26 (1053)										
	27-29 (1174.5)										
	30-31 (1255.5)										

More Area & Air Volume (Space [m<sup>2</sup>] & Air Volume Required [m<sup>3</sup>/h])

The ventilation volume was calculated according to the standard of air change rates defined by The Society of Heating, Air Conditioning and Sanitary Engineers of Japan.

\* Assuming ceiling height to be 2.7 m.

## Air ventilation calculation system and ventilator selection

### Standard value in calculation

Air ventilation in the room is calculated on how many times air flowing in the window in an hour should flow out, which is called "standard value". From the examination, standard value can ventilate all the air in the room. Standard value can be formulated as follows:

Necessary ventilation volume (m<sup>3</sup>/h) = Necessary air change rate per hour (time/h) x Room capacity (m<sup>3</sup>)

#### For example ;

Room size : Floor area 16 (m<sup>2</sup>), Ceiling height 2.7 (m)

Capacity = 16 x 2.7 = 43.2 m<sup>3</sup>

When the place in question is assumed to be an office, the required air change rate counts for 6 times/h, therefore, Necessary ventilation volume = 6 x 43.2 = 259.2 m<sup>3</sup>/h.

Residence				Office			
Kitchen	Bathroom	Living room	Bedroom	Bathroom	Workroom	Meeting room	Smoking room
15	10	6	6	10	6	12	20

School		Hospital		General use		
Classroom	Library	Bathroom	Bedroom	Bathroom	Room	Rooms with exhaust gas
6	6	12	6	10	6	20

# Mitsubishi Electric ventilator...

## Beyond comfortableness..is the latest technology and Premium Safety standard

The world is moving forward all the time as we never stop innovating and developing Mitsubishi Electric ventilator to ensure better efficiency of Mitsubishi Electric ventilator in terms of perfect standard air ventilation, easy installation, disturbance noise free, variety of styles to suit every room and every purpose with Premium Safety standard... helps you and your family to be content and free from worry for safety anywhere with Mitsubishi Electric ventilator.

## Full efficiency for air ventilation

### Energy-Saving design

Remarkable progress has been made in energy conservation with introduction of the "Extra Fan" blades which were designed according to aerodynamic principles-control airflow. It on the blades surface, retains the air turbulence and hence eddies to be formed. Thus noise is greatly diminished without reduction in airflow.



## General ventilators.

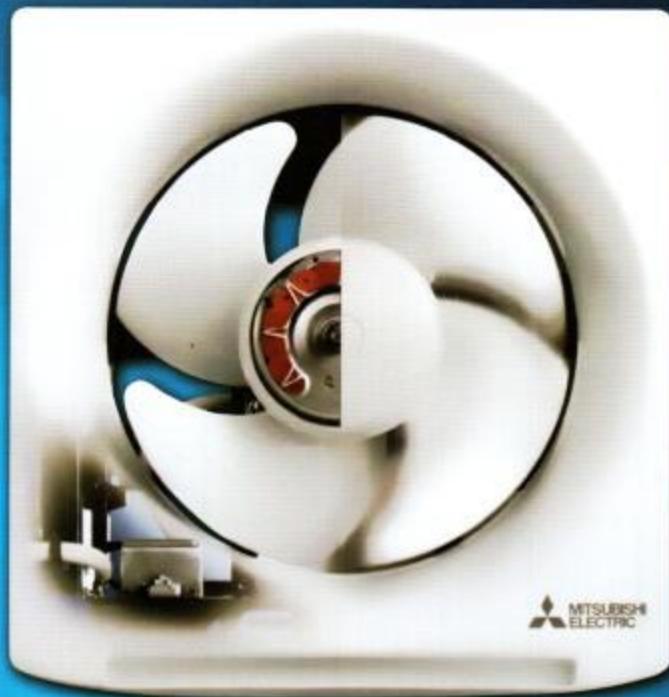
Are discovered to have disturbance noise because their mechanism is similar to water or air rotation behind the material, which causes air resistance and disturbance noise.

## Environmental friendly

Restrict the use of 6 hazardous substances that are harmful to environment in electric and electronics products according to RoHs requirement of European Union (EU). (The 6 prohibitive substances are lead, mercury, cadmium, chromium-hexavalent, polybrominated-biphenyls and polybrominated-diphenyl-ether)

# Better Quality

WITH HIGHER SAFETY STANDARD



## Premium Safety Standard

MITSUBISHI ELECTRIC  
**PREMIUM SAFETY**

Attentive to every detail for safety and increases confidence for every use



### Capacitor

with metal cover and non-flammable materials



### Terminal Block

Electric wire connector for ceiling mounted type with duct is firm, easy to install, and made of non-flammable materials

### Electric wire

More confidence with non-flammable insulation



### Shrink Tube

Made of non-flammable materials to prevent electrical short that causes sparkle



### Thermal Fuse

automatically cut-off when the temperature rises too high



## Beyond Quality

Attentive to every component to ensure higher safety, we choose better materials for efficient, durable and worthwhile use.



### Extra Fan

Propeller operates quietly that does not disturb your rest



### Grille

new stylish design and easy to clean

### Body

Easy to install, durable and anti-rust coated



### Motor

Closed Motor to prevent dust and foreign particles. Durable 3-year warranty



# Wall-mounted type ventilators



Feel pure, clean and fresh air like you are amid the nature with our wall-mounted ventilators with air ventilation and circulation technology for health to make you content and comfortable everywhere.

## MODEL EX : Wall-mounted type



EX-20SHC4T (8 inch)  
EX-25SHC3T (10 inch)  
EX-30SHC3T (12 inch)

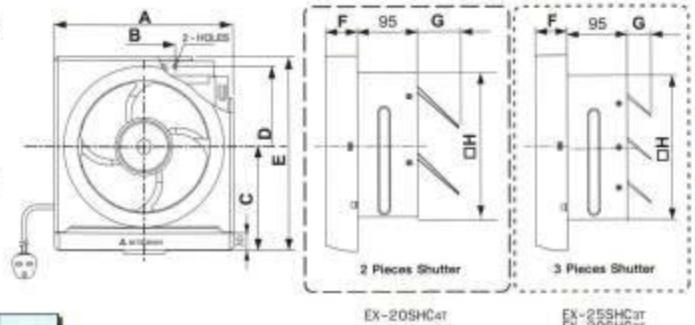
FOR SHOPS, OFFICE ROOMS,  
LIVING ROOMS & KITCHENS

- Operates quietly
- Easy to Clean
- Energy efficient
- Specially designed with an Oil-Catcher



Wall Mount Type

Wood frame inner dimensions  
EX-20SHC4T 2250  
EX-25SHC3T 3000  
EX-30SHC3T 3500



### DIMENSIONS

MODEL	A	B	C	D	E	F	G		H
							3 shutter	2 shutter	
EX-20SHC4T	296	120	184	205	312	50	-	≥60	240
EX-25SHC3T	348	170	189	315	362	50	≥54	-	290
EX-30SHC3T	398	220	214	365	412	65	≥64	-	340

### SPECIFICATIONS

MODEL	Rated Voltage (V)	Frequency (Hz)	Exhaust/Supply	Rated Current (A)	Power Consumption (W)	RPM	Airflow Rate		Noise Level (dB)	Weight (kg)
							m <sup>3</sup> /h	(CFM)		
EX-20SHC4T	220	50	Exhaust	0.09	20	1350	545	321	39.0	2.5
	230-240	50		0.09-0.10	21.5-23	1360-1370	550-565	324-333	40.0-41.0	
	220-230	60		0.10	22-23	1520-1540	610-630	359-371	43.0	
EX-25SHC3T	220	50	Exhaust	0.12	28	1180	820	541	46.0	2.9
	230-240	50		0.12-0.13	28-30	1200-1220	830-840	547-553	43.0-44.0	
	220-230	60		0.15	30-33	1290-1330	860-880	565-577	44.5-45.5	
EX-30SHC3T	220	50	Exhaust	0.14	30	900	1120	659	39.5	3.7
	230-240	50		0.14-0.15	32-34	920-940	1125-1130	662-665	40.0-41.0	
	220-230	60		0.15-0.16	33-36	800-850	860-1025	577-603	38.0-39.0	



**EX-20RHC4T (8 inch)**  
**EX-25RHC3T (10 inch)**  
**EX-30RHC3T (12 inch)**

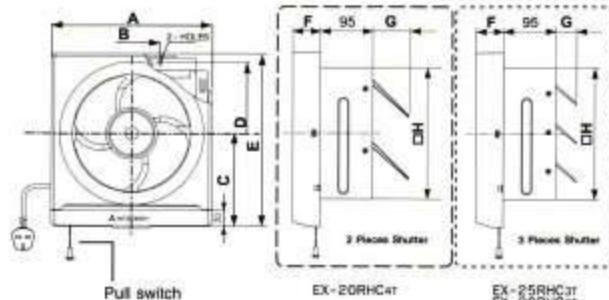
FOR SHOPS, OFFICE ROOMS,  
 LIVING ROOMS & KITCHENS

- Reversible
- Operates quietly
- Easy to Clean
- Energy efficient
- Specially designed with an Oil-Catcher



**Wall Mount Type**

Wood frame inner dimensions EX-20RHC4T...□250  
 EX-25RHC3T...□300  
 EX-30RHC3T...□350



**DIMENSIONS**

MODEL	A	B	C	D	E	F	G		H
							3 shutter	2 shutter	
EX-20RHC4T	296	120	164	265	312	50	-	≥60	240
EX-25RHC3T	346	170	189	315	362	50	≥54	-	290
EX-30RHC3T	396	220	214	365	412	65	≥64	-	340

**SPECIFICATIONS**

MODEL	Voltage (V)	Frequency (Hz)	Exhaust/Supply	Rate Current (A)	Power Consumption (W)	RPM	Airflow Rate		Noise Level (dB)	Weight (kg)
							(m <sup>3</sup> /h)	(CFM)		
EX-20RHC4T	220	50	Exhaust	0.12	23	1320	540	318	38.0	2.6
			Supply	0.09	18	1280	390	230	45.0	
	Exhaust		0.12-0.13	25-27	1330-1340	550-560	324-330	39.0-40.0		
	Supply		0.9-0.10	20-22	1300-1320	400-410	235-241	47.0-47.5		
	220-230	60	Exhaust	0.11	23-24	1530-1550	620-630	365-371	43.0-43.5	
			Supply	0.09	19-20	1440-1470	420-430	247-253	50.0-51.0	
EX-25RHC3T	220	50	Exhaust	0.14	28	1120	840	494	37.0	3.1
			Supply	0.11	23	1020	590	330	42.0	
	Exhaust		0.14-0.15	30-32	1160-1200	865-890	509-524	40.0-41.0		
	Supply		0.11-0.12	25-27	1060-1110	580-600	341-353	45.5-47.0		
	220-230	60	Exhaust	0.14-0.15	30-32	1030-1090	780-800	459-471	36.5-38.0	
			Supply	0.11-0.12	24-26	980-1040	510-540	300-318	43.0-45.0	
EX-30RHC3T	220	50	Exhaust	0.19	36	900	1300	765	36.5	3.8
			Supply	0.13	28	700	790	465	38.0	
	Exhaust		0.19-0.20	38-40	950-1000	1250-1400	795-824	37.5-38.5		
	Supply		0.13-0.14	30-32	740-780	830-870	489-512	40.0-41.0		
	220-230	60	Exhaust	0.19	39-42	830-900	1000-1050	589-618	36.0-37.0	
			Supply	0.13	27-28	630-670	600-620	353-365	39.0-40.0	



**EX-25SKC4T (8 inch)**  
**EX-25SKC3T (10 inch)**

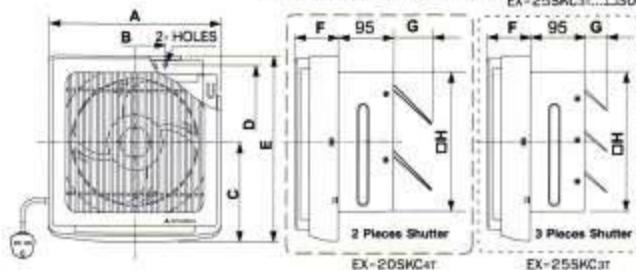
FOR SHOPS, OFFICE ROOMS,  
 LIVING ROOMS

- Operates quietly
- Easy to Clean
- Energy efficient
- Beautiful Grille



**Wall Mount Type**

Wood frame inner dimensions EX-20SKC4T...□250  
 EX-25SKC3T...□300



**DIMENSIONS**

MODEL	A	B	C	D	E	F	G		H
							3 shutter	2 shutter	
EX-20SKC4T	296	120	164	265	312	50	-	≥60	240
EX-25SKC3T	346	170	189	315	362	50	≥54	-	290

**SPECIFICATIONS**

MODEL	Rated Voltage (V)	Frequency (Hz)	Exhaust/Supply	Rated Current (A)	Power Consumption (W)	RPM	Airflow Rate		Noise Level (dB)	Weight (kg)
							m <sup>3</sup> /h	(CFM)		
EX-20SKC4T	220	50	Exhaust	0.09	20	1350	520	308	40.0	2.6
				0.10	21.5-23	1360-1370	535-550	315-324	40.5-41.0	
	0.10			22-23	1520-1550	610-630	350-371	44.0-45.0		
EX-25SKC3T	220		50	Exhaust	0.12	26	1180	860	506	40.3
		0.12-0.13			28-30	1210-1240	880-900	518-530	43.5-44.0	
	0.15-0.16	32-34			1200-1240	910-940	536-553	43.5-44.5		
220-230	60	Exhaust		0.12	26	1180	860	506	40.3	3.2
		0.12-0.13	28-30	1210-1240	880-900	518-530	43.5-44.0			

# Window mounted ventilators

Elegant in every room with our window mounted ventilators. Modern design without disturbance noise. Operates continuously with more durable and energy-saving motor from progressively developing technology.

## MODEL V : Window-mounted type

### V-15EWG2T

Make a hole in ordinary glass of 3-7 mm thickness



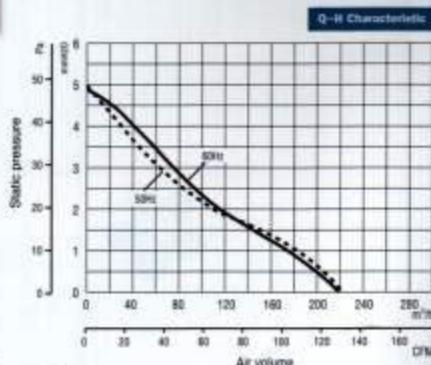
The Delta Extra Fan equipped in V-15EWG's design is the further advancement of Mitsubishi Electric's unique wing-shape fan blade so as to achieve stronger airflow, lower noise level and greater energy saving. From general dwelling to commercial stores, these units provide comfort in wide range of applications.

Apart from this, the shutter opening / closing is linked to the operation of the geared motor. Even in the severe environment such as strong wind blowing outside, the ventilator can still operate normally and safely.

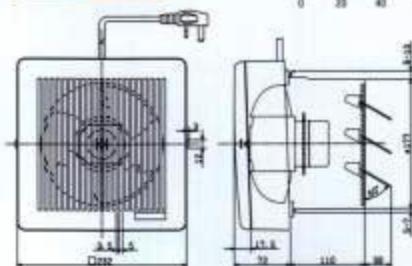
#### SPECIFICATIONS

MODEL	Rated Voltage (V)	Frequency (Hz)	Rated Current (A)	Power Consumption (W)	RPM	Airflow Volume m <sup>3</sup> /h(CFM)	Noise Level (dB.)	Weight (kg)
V-15EWG2T	220	50	0.08	14.50	1920	270	44	1.6

Performance values are based on Japanese Industrial Standards C 9603. Noise values were measured in an anechoic chamber.



#### Dimensions

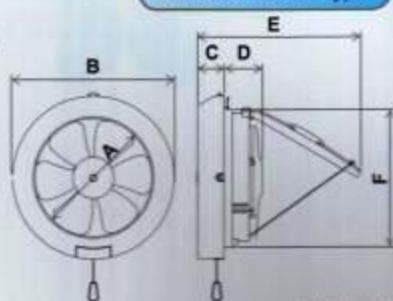


#### Window Mount Type

V-15SL3T  
GLASS INSTALLATION  
DIMENSION



V-20SL3T  
GLASS INSTALLATION  
DIMENSION



#### DIMENSIONS

MODEL	A	B	C	D	E	F
V-15SL3T	150	210	43	58	211	178
V-20SL3T	200	278	45	63	300	237

### V-15SL3T (6 inch) V-20SL3T (8 inch)



FOR SHOPS, OFFICE ROOMS,  
LIVING ROOMS &  
KITCHENS

- Operates quietly
- Easy to Clean
- Energy efficient

#### SPECIFICATIONS

MODEL	Rated Voltage (V)	Frequency (Hz)	Exhaust/Supply	Rated Current (A)	Power Consumption (W)	RPM	Airflow Rate		Noise Level (dB)	Weight (kg)
							m <sup>3</sup> /h	(CFM)		
V-15SL3T	220	50	Exhaust	0.04	8.0	1620	230	135	33.0	1.1
	230-240			0.04	8.7-9.4	1680-1740	240-250	141-147	34.0-35.0	
	220-230	60		0.05	8.5-9.0	1650-1710	235-245	138-144	33.0-34.0	
V-20SL3T	220	50	Exhaust	0.09	16	1220	370	218	38.0	1.2
	230-240			0.09-0.10	18-20	1280-1330	390-410	230-241	40.0-41.0	
	220-230	60		0.10	18-20	1250-1300	380-400	224-235	39.5-40.5	

# Ceiling-mounted ventilators without duct



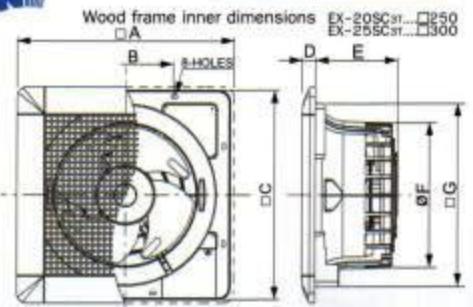
## EX-20SC3T (8 inch) EX-25SC3T (10 inch)

FOR SHOPS, OFFICE ROOMS,  
LIVING ROOMS

- Operates quietly
- Easy to Clean
- Energy efficient



### Ceiling Mount Type



#### DIMENSIONS

MODEL	A	B	C	D	E	F	G
EX-20SC3T	330	144	320	20	125	218	280
EX-25SC3T	360	180	372	20	134	268	332

#### SPECIFICATIONS

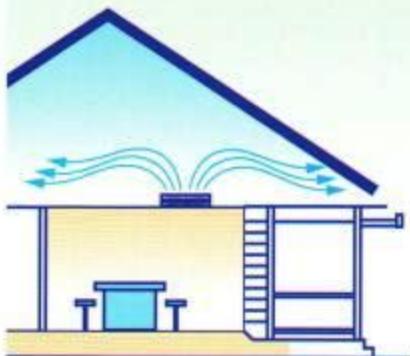
MODEL	Rated Voltage (V)	Frequency (Hz)	Exhaust/Supply	Rated Current (A)	Power Consumption (W)	RPM	Airflow Rate		Noise Level (dB)	Weight (kg)
							m <sup>3</sup> /h	(CFM)		
EX-20SC3T	220	50	Exhaust	0.09	19	1350	460	271	40.0	2.4
	230-240			0.09-0.10	21-23	1300-1370	470-480	277-283	42.5-43.0	
	220-230	60		0.10	21-22.5	1520-1540	540-550	318-324	47.0-47.5	
EX-25SC3T	220	50	Exhaust	0.11	23	1150	670	394	39.5	2.7
	230-240			0.11-0.12	25-27	1170-1190	690-720	406-424	40.0-4.5	
	220-230	60		0.12-0.13	27-29	1050-1110	660-700	388-412	41.0-42.0	

### Installation with wooden frame Ceiling

### Air ventilation Ceiling-mounted

#### Installation caution

There should be enough space between roof and ceiling, and there should be air outlet.



#### Ceiling type without pipe





## Ceiling mounted ventilators with duct

Expose to fresh air with our ceiling mounted ventilators with duct that bring you pure and fresh air. They also ventilate unclean air, smoke and fusty smell away from your room without disturbance noise. Simply elegant for every room. Another level of progressively developed technology for better air ventilation.



### Installation model for ceiling mounted ventilators with duct



# MODEL VD



VD-10Z4T3  
VD-15Z4T3  
VD-15ZP4T3

VD-10Z4T3-C  
VD-15Z4T3-C

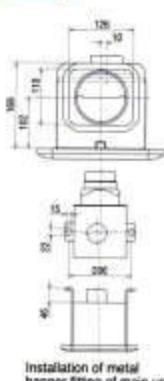
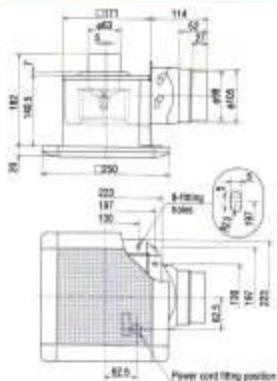
## Low Noise Type

- For bathrooms, toilet, washrooms.
- Pressure-type with centrifugal fan.
- Humidity-resistant plastic grille.
- Equipped with back-draft shutter.
- Snap-fit grille.
- Quick connect terminal.
- Slide-type installation and removal.
- Always ground the ventilator when installing in bathroom and other humid places.

## Plastic grille

- Applicable for :
- Bathroom
  - Washroom
  - Toilet

### VD-10Z4T3, 10Z4T3-C



Comparison grille :  
VD-10Z4T3



Linear pattern grille :  
VD-10Z4T3-C



• Grille aperture area : 176 cm<sup>2</sup>

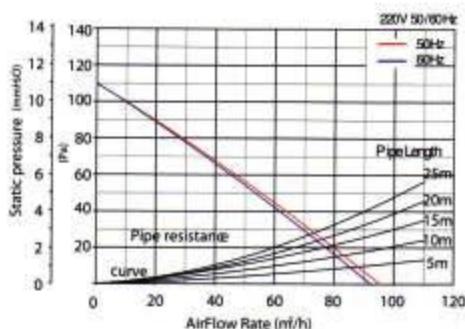
Ceiling recess size □180 mm  
(edge height : 30 mm max)

Grille aperture area : 184 cm<sup>2</sup>

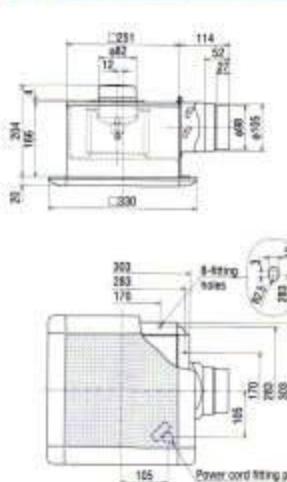
#### SPECIFICATIONS

MODEL	Rated Voltage (V)	Frequency (Hz)	Rated Current (A)	Power Consumption (W)	RPM	Airflow Rate m <sup>3</sup> /h(CFM)	Noise Level 3 Point av.(dB)	Weight (kg)
VD-10Z4T3	220	50	0.07	1.0	830	95(56)	27	2.2
	230-240		0.07-0.08	1.1-1.2	880-910	100-105(59-62)	29-30	
VD-10Z4T3-C	220-230	60	0.08	1.1-1.2	820-840	93-97(55-57)	27-28	

### Q-H Characteristic VD-10Z4T3, VD-10Z4T3-C



### VD-15Z4T3, 15Z4T3-C, 15ZP4T3



Comparison grille :  
VD-15Z4T3, 15ZP4T3



Linear pattern grille :  
VD-15Z4T3-C



• Grille aperture area : 357 cm<sup>2</sup>

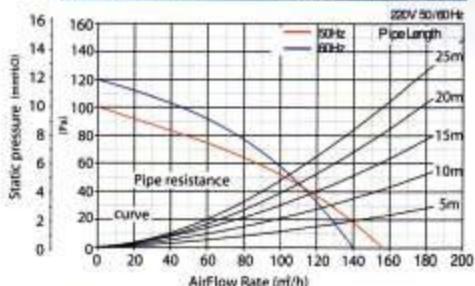
Ceiling recess size □280 mm  
(edge height : 40 mm max)

Grille aperture area : 373 cm<sup>2</sup>

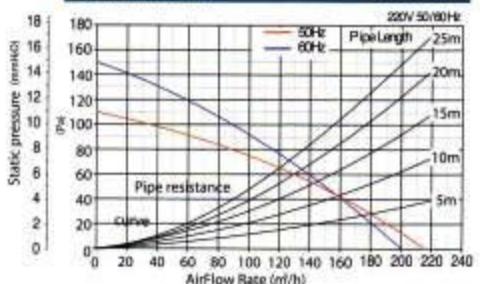
#### SPECIFICATIONS

MODEL	Rated Voltage (V)	Frequency (Hz)	Rated Current (A)	Power Consumption (W)	RPM	Airflow Rate m <sup>3</sup> /h(CFM)	Noise Level 3 Point av.(dB)	Weight (kg)
VD-15Z4T3	220	50	0.07	1.4	650	155(91)	28	3.5
	230-240		0.07-0.08	1.5-1.7	700-720	170-180(100-106)	30-32	
VD-15Z4T3-C	220-230	60	0.07	1.4-1.5	630-650	148-150(82-88)	26.5-27.5	
VD-15ZP4T3	220	50	0.08	1.7	850	215(127)	35	3.5
	230-240		0.08-0.09	1.8-2.0	870-920	220-235(129-138)	35.5-37	
	220-230	60	0.09	1.9-2.0	800-840	200-205(118-121)	34-34.5	

### Q-H Characteristic VD-15Z4T3, VD-15Z4T3-C



### Q-H Characteristic VD-15ZP4T3



# MODEL VD



**VD-18Z4T3**

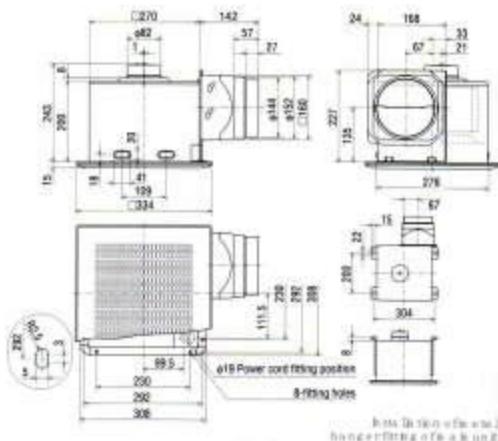
**Metal grille**

Applicable for :

- Living rooms
- Offices
- Stores
- Kitchens

**Low Noise Type**

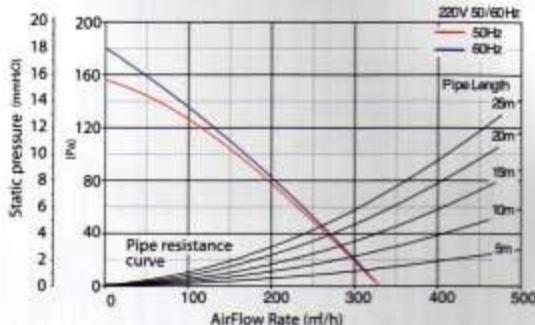
- Pressure-type with centrifugal fan.
- Equipped with back-draft shutter.
- Snap-fit grille.
- Quick connect terminal.
- Slide-type installation and removal.



• Grille aperture area : 319 cm<sup>2</sup> Ceiling recess size : 280 mm square (edge height : 40 mm max)

**Q-H Characteristic**

**VD-18Z4T3**



**SPECIFICATIONS**

MODEL	Rated Voltage (V)	Frequency (Hz)	Rated Current (A)	Power Consumption (W)	RPM	Airflow Rate m <sup>3</sup> /h (CFM)	Noise Level 3 Point av. (dB)	Weight (kg)
VD-18Z4T3	220	50	0.14	28	590	330(194)	35	5.7
	230		0.15	32	619	350(206)	37	
	240		0.16	34	640	360(212)	38	
	220	60	0.18	35	570	330(194)	35	
	230		0.18	36	590	340(200)	36	



**VD-20Z4T3**  
**VD-20ZP4T3**

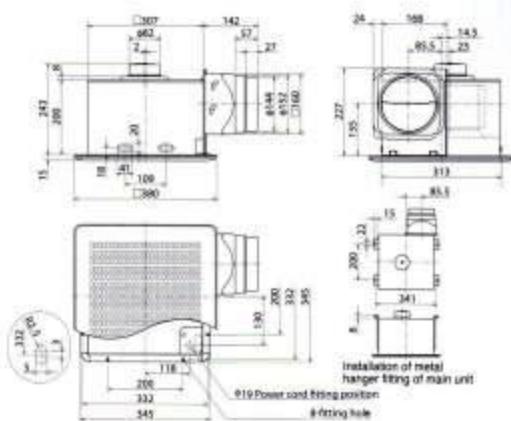
**Metal grille**

Applicable for :

- Living rooms
- Offices
- Stores
- Kitchens

**Low Noise Type**

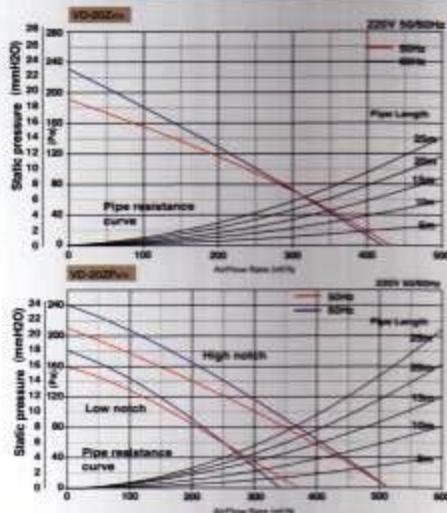
- Low-noise design
- Pressure-type with centrifugal fan.
- Equipped with back-draft shutter.
- Two speed(High and low) ventilation.
- Snap-fit grille.
- Quick connect terminal.
- Slide-type installation and removal.



• Grille aperture area : 435 cm<sup>2</sup>  
• Ceiling recess size : 315 mm square (edge height : 45 mm max)

**Q-H Characteristic**

**VD-20Z4T3, VD-20ZP4T3**



**SPECIFICATIONS**

MODEL	Rated Voltage (V)	Frequency (Hz)	Notch	Rated Current (A)	Power Consumption (W)	RPM	Airflow Rate (m <sup>3</sup> /h)(CFM)	Noise Level 3 Point av. (dB)	Weight (kg)
VD-20Z4T3	220	50	-	0.20	42	700	430(248)	39	6.5
	230		-	0.21	46	730	440(259)	41	
	240		-	0.22	50	760	460(271)	42	
	220-230	60	-	0.25-0.26	51-56	670-700	420(247)-430(253)	39/40	
	220		High	0.29	53	640	510(300)	43	
	230			0.30	60	660	530(312)	45	
240	0.31	65		690	550(324)	46			
VD-20ZP4T3	220	50	High	0.24	37	610	370(218)	37	6.9
	230			0.25	43	640	380(224)	38	
	240			0.26	47	670	420(247)	39	
	220			0.25	67	830	510(300)	44	
	220	60	High	0.37	74	860	530(312)	45	
	230			0.29	44	590	340(200)	36	
	240			0.31	47	620	360(212)	37	

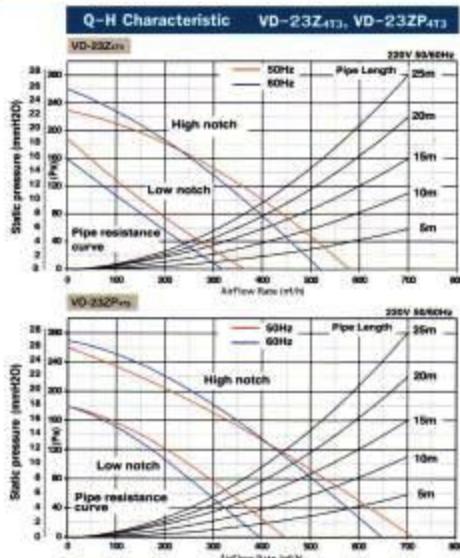
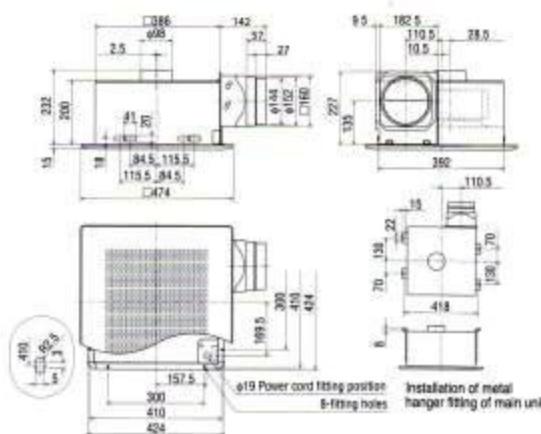
\* Specifications subject to change without notice.



## VD-23Z4T3 VD-23ZP4T3

Applicable for :

- Living rooms
- Offices
- Stores
- Kitchens



### High Airflow Type

- Low-noise design.
- Pressure-type with centrifugal fan.
- Equipped with back-draft shutter.
- Two speed (High and low) ventilation.
- Snap-fit grille.
- Quick connect terminal.
- Slide-type installation and removal.

### SPECIFICATIONS

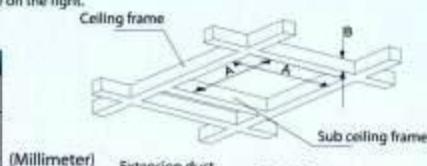
MODEL	Rated Voltage (V)	Frequency (Hz)	Notch	Rated Current (A)	Power Consumption (W)	RPM	Airflow Rate (m <sup>3</sup> /h(CFM))	Noise Level 3 Point av.(dB)	Weight (kg)
VD-23Z4T3	220	50	High	0.35	75	630	580(341)	43	10
	230			82	670	600(353)	44		
	240			89	690	630(371)	45		
	220	Low	0.27	44	400	360(212)	32		
	230		50	420	360(212)	34			
	240		55	450	390(230)	35			
VD-23ZP4T3	220	50	High	0.41	89	600	520(306)	41.5	10.3
	230			97	640	560(330)	42.5		
	240			105	680	520(306)	43.5		
	220		Low	0.31	59	500	450(265)	37	
	230			65	480(271)	38			
	240			70	490(288)	39			
	220	60	High	0.51	115	880	650(383)	45.5	
	230			120	910	700(412)	46.5		
	240			125	950	680(402)	47.5		
	220		Low	0.35	62	560	400(235)	36	
	230			68	580	430(253)	37		
	240			72	600	450(265)	37		

\* Specifications subject to change without notice.

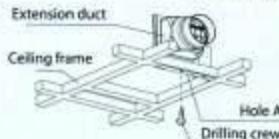
## Installation process

1. Attach installation frame with ceiling frame and sub ceiling frame according to the image on the right. The frame size is according to Table 1.

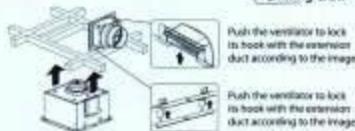
Model	Size A	Size B
VD-10Z4T	180	25-30
VD-15Z4T	260	30-40



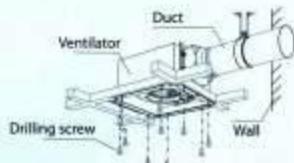
2. Place supportive joints under the ceiling frame. Connect extension duct with duct and fix extension duct with the ceiling frame to Position A with drilling screw according to the image on the right.



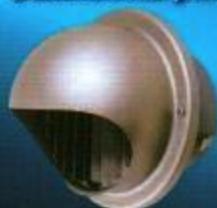
3. Install the ventilator with extension duct (by moving up the ventilator from under the ceiling frame) and push the ventilator to lock its hook with the extension duct according to the image on the right.



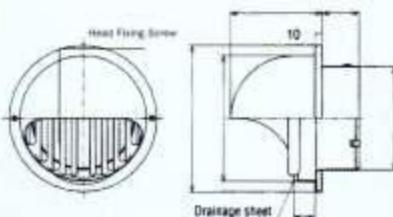
4. Check if the ventilator fixes firmly with the extension duct before attaching the ventilator with the ceiling frame by using 8 screws.

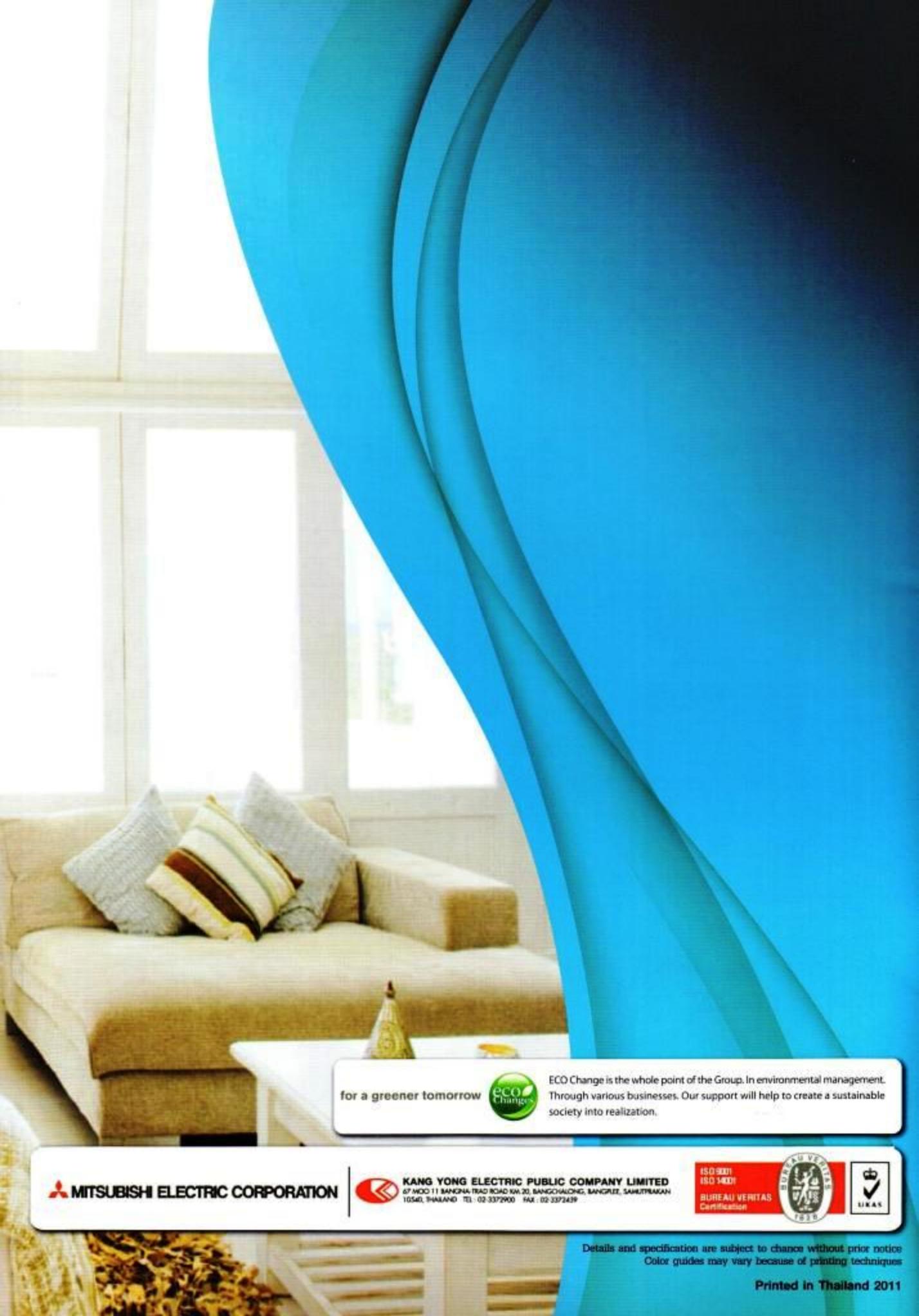


### Grille cap (Additional part)



P-13FAT1T





for a greener tomorrow



ECO Change is the whole point of the Group. In environmental management. Through various businesses. Our support will help to create a sustainable society into realization.

 MITSUBISHI ELECTRIC CORPORATION



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