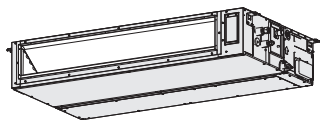


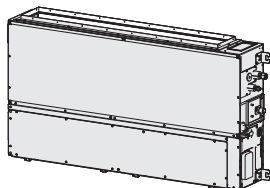
## Operating Instructions Air Conditioner

### Middle Static Pressure Duct (Type F3)

<At horizontal installation>



<At vertical installation>



### ENGLISH

Before operating the unit, read these operating instructions thoroughly and keep them for future reference.

#### Model No.

**INDOOR UNIT**

### Middle Static Pressure Duct (Type F3)

S-15MF3E5A	S-60MF3E5A
S-22MF3E5A	S-73MF3E5A
S-28MF3E5A	S-90MF3E5A
S-36MF3E5A	S-106MF3E5A
S-45MF3E5A	S-140MF3E5A
S-56MF3E5A	S-160MF3E5A

- **Connectable outdoor unit lineup**  
This booklet is the operating instructions for indoor unit. Regarding the outdoor unit, see the operating instructions supplied with the outdoor unit.

**OUTDOOR UNIT**

**Refrigerant type : R410A**  
**mini VRF (Type LE1, LE2)**  
**2WAY VRF (Type ME2)**  
**3WAY VRF (Type MF3)**



Thank you for purchasing this Panasonic product.  
 This product is a commercial air conditioner indoor unit.  
 Installation Instructions attached.

# Contents

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<hr/>	
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## Product Information

If you have problems or questions concerning your Air Conditioner, you will need the following information. Model and serial numbers are on the nameplate.





Model No.
Serial No.
Date of purchase
Dealer's address
Phone number

### Important Information Regarding The Refrigerant Used

This product contains fluorinated greenhouse gases.  
 Do not vent gases into the atmosphere.  
 Refrigerant type: R410A  
 GWP<sup>(1)</sup> value: 2088  
<sup>(1)</sup>GWP = global warming potential  
 Periodical inspections for refrigerant leaks may be required depending on European or local legislation.  
 Please contact your local dealer for more information.




# Safety Precautions

The following symbols used in this manual, alert you to potentially dangerous conditions to users, service personnel or the appliance:

	<b>WARNING</b>	This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.
	<b>CAUTION</b>	This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.
	Prohibited matters	
	Matters to be observed	

- Read these Operating Instructions carefully before using this air conditioner. If you still have any difficulties or problems, consult your dealer for help.
- This air conditioner is designed to give you comfortable room conditions. Use this only for its intended purpose as described in these Operating Instructions.

## ! WARNING

	<p>Confirm to authorized dealer or specialist on usage of specified refrigerant type. Using of refrigerant other than the specified type may cause product damage, burst and injury etc.</p> <hr/> <p>This air conditioner has no ventilator for intaking fresh air from outdoors. You must open doors or windows frequently when you use gas or oil heating appliances in the same room, which consume a lot of oxygen from the air. Otherwise there is a risk of suffocation in an extreme case.</p>
	<p>Never use or store gasoline or other flammable vapor or liquid near the air conditioner — it is very dangerous.</p> <hr/> <p>Do not use this appliance in a potentially explosive atmosphere.</p> <hr/> <p>Never touch the unit with wet hands.</p>
	<p>Do not insert your fingers or other objects into the air conditioner indoor or outdoor unit, rotating parts may cause injury.</p>

## WARNING



If the refrigerant comes in contact with a flame, it produces toxic gases.

For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning or servicing.

Pull off the power plug from a receptacle, or switch off the breaker, or switch off the power disconnecting mean to isolate the air conditioner from the main power supply in case of emergency.



Dispose of according to national and/or local legislation.



This product must not be modified or disassembled under any circumstances.

Modified or disassembled unit may cause fire, electric shock or injury.

Do not clean inside the indoor and outdoor units by users. Engage authorized dealer or specialist for cleaning.

In case of malfunction of this appliance, do not repair by yourself. Contact the sales dealer or service dealer for a repair and disposal.



Provide a power outlet to be used exclusively for each unit, and a power supply disconnect, Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD) for overcurrent protection should be provided in the exclusive line.

Provide a power outlet exclusively for each unit, and full disconnection means having a contact separation in all poles must be incorporated in the fixed wiring in accordance with the wiring rules.

To prevent possible hazards from insulation failure, the unit must be grounded.



Do not use modified cord, joint cord, extension cord or unspecified cord to prevent overheating and fire.



Stop using the product when any abnormality/failure occurs and disconnect the power plug or turn off the power switch and breaker. (Risk of smoke/fire/electric shock)

Examples of abnormality/failure:

- The ELCB trips frequently.
- The product sometimes does not start when turned on.
- The power is sometimes disconnected when the cord is moved.
- Burnt odor or abnormal noise is detected during operation.
- The body is deformed or abnormally hot.
- Water leaks from the indoor unit.
- Power cord or plug becomes abnormally hot.
- Fan speed cannot be controlled.
- The unit stops running immediately even if it is switched on for operation.

Contact immediately your local dealer for maintenance/repair.



Do not sit or step on the unit. You may fall down accidentally.



## CAUTION



This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

<for European market only>

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Keep the fire alarm and the air outlet at least 1.5 m away from the unit.

Do not cool or heat the room too much if babies or invalids are present.



Do not turn the air conditioner on and off from the power mains switch. Use the ON/OFF operation button.

Do not stick anything into the air outlet of the outdoor unit. This is dangerous because the fan is rotating at high speed.



Do not touch the air inlet or the sharp aluminum fins of the outdoor unit. You may get injured.



Do not stick any object into the FAN CASE. You may be injured and the unit may be damaged.



### NOTICE

- The appliance shall be stored so as to prevent mechanical damage from occurring.
- The compressor may occasionally stop during thunderstorms. This is not a mechanical failure. The unit automatically recovers after a few minutes.
- The English text is the original instructions. Other languages are translation of the original instructions.

# Precautions for Use

## Installation

- This air conditioner must be installed properly by qualified installation technicians in accordance with the Installation Instructions provided with the unit.
- Before installation, check that the voltage of the electric supply in your home or office is the same as the voltage shown on the nameplate.



## WARNING

### Avoid the following locations for installation.

- Locations where smoke or combustible gas exists. Also locations of extremely high temperature such as a greenhouse.
- Locations where excessively high heat-generating objects are placed.

### Attention:

- Avoid installing the outdoor unit where salty sea water can splash directly onto it or in sulphurous air near a spa. (To protect the air conditioner from heavy corrosion)

## Wiring

- All wiring must conform to the local electrical codes. (Consult your dealer or a qualified electrician for details.)
- Each unit must be properly grounded with a ground (or earth) wire or through the supply wiring.
- Wiring must be done by a qualified electrician.

## Operation Preparation

### Turn the power mains on 5 hours before the start of operation.

(For warm-up)

- Leave the power mains ON for continuous use.

### NOTE

Pull off the power plug from a receptacle, or switch off the breaker, or switch off the power disconnecting mean to isolate the air conditioner from the main power supply when not in use for a long time.

## Tips for Energy Saving

### ■ Avoid

- Do not block the air intake and outlet of the unit. (If either is obstructed, the unit will not function well, causing malfunction.)
- During cooling operation, use sunshades, blinds or curtains to prevent direct sunlight from entering the room.

### ■ Do

- Always keep the air filter clean. (A clogged filter will impair the performance of the unit.) → "Maintenance" (P.7)
- To prevent conditioned air from escaping, keep windows, doors and any other openings closed.

### Information for Users on Collection and Disposal of Old Equipment and Used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC. By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

### [Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



### Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

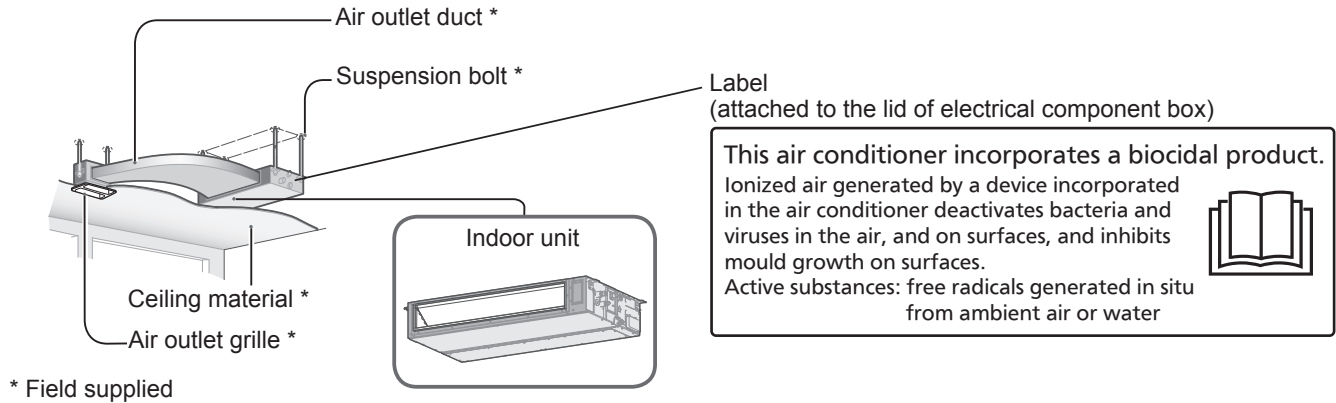


# Names of Parts

## INDOOR UNIT

### Type F3 (Middle Static Pressure Duct)

At standard installation  
(Horizontal installation in the ceiling, rear side air intake)



## OUTDOOR UNIT

mini VRF (Type LE1, LE2)  
2WAY VRF (Type ME2)  
3WAY VRF (Type MF3)

### NOTE

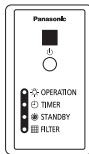
Refer to the Operating Instructions attached to the outdoor unit.

## Optional

### Wireless Remote Controller



Model No.  
CZ-RWS3



Model No.  
CZ-RWRC3

(Infrared Remote Controller)

### Timer Remote Controller



Model No.  
CZ-RTC4

For all indoor  
units

### High-spec Wired Remote Controller



Model No.  
CZ-RTC5B

For all indoor  
units

### Wired Remote Controller



Model No.  
CZ-RTC6  
series

For all indoor  
units

Read the Operating Instructions included with the Remote Controller.

### ■ Operation & Adjusting Airflow Direction

Refer to the Operating Instructions attached to the Remote Controller.

# Maintenance

## WARNING

- For safety, be sure to turn the air conditioner off and disconnect the power before cleaning. (Otherwise, electric shock or injury may result because the fan is rotating at high speed.)
- Do not pour water on the indoor unit. (This may damage the internal components and cause an electric shock hazard.)

## CAUTION

- Never use solvents or harsh chemicals. Also, do not wipe plastic parts using very hot water. (This may cause deformation or change in colour.)
- Some metal edges and fins are sharp. Be careful when you clean those parts. (Injury may result.)
- Use a firm stool or ladder when cleaning an indoor unit installed in high locations.

- The internal coil and other components of the outdoor unit must be cleaned periodically.
  - Consult your dealer or service center.

### ■ Air Filter Maintenance




When cleaning the air filter, consult your dealer or service center.

## Operation Mechanism

### ■ Heating performance

- This air conditioner utilizes outside air for heating; its heating performance reduces as outside temperature decreases.
  - In the event that heating is not sufficient, please use an additional heating appliance.

### ■ Defrosting

- This appliance may start defrosting operation to melt frost formed in the outdoor unit.
  - ① **Defrosting starts:** The indoor unit fan stops (or the speed becomes extremely slow).
    - “” (STANDBY) appears.
  - ② **Heating operation resumes after several minutes:** The indoor unit fan remains stopped (or it will run at a very slow speed) until the indoor heat exchanger coil warms up sufficiently.
    - “” (STANDBY) appears.
  - ③ **Defrosting is complete:** The indoor unit fan starts operation.
    - “” (STANDBY) disappears.

### ■ “DRY” operation

- Once the room temperature reaches the level that was set, the outdoor unit repeats the cycle of turning on and off automatically.
- When the room temperature is more likely to reach the level that was set, the fan speed is set to “breeze” (light wind) automatically.

### ■ Should power failure occur while the unit is running

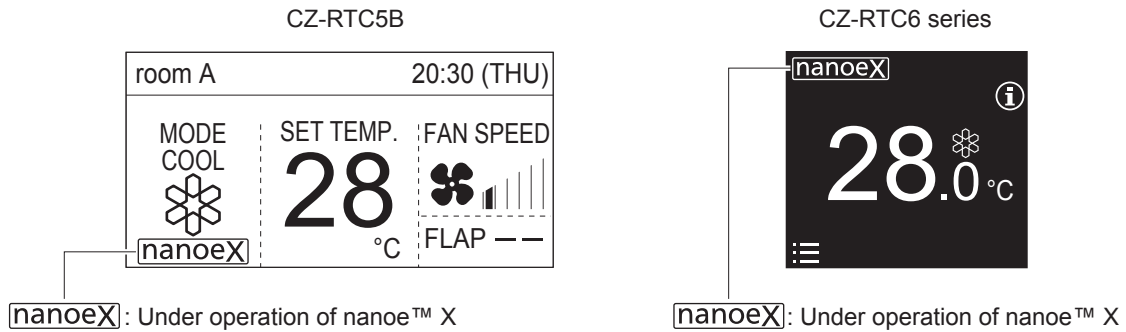
The unit will resume operation automatically. Operation settings prior to power failure will be used.



# nanoe™ X Function

## Display during operation of nanoe™ X

Example: Initial screen of remote controller



nanoe™ X For a freshness and cleaner environment

nanoe™ X generates negative ions using the air in the room to give a healthy air.

It also reduces the smell in the room, and constrains propagations of mold and bacteria.

When purchased, the nanoe™ X function is designed to automatically operate.

- If you wish to set to OFF, refer to the operating instructions for the remote controller adaptable to nanoe™ X function.

The effect of nanoe™ X may decrease slightly depending on the installation conditions of the unit.





# Troubleshooting

Check before consulting or requesting services.

Symptom		Cause / Action
Indoor unit	<b>Noise</b> Sound like streaming water is heard during operation or after operation. Cracking noise is heard during operation or when operation stops.	• Sound of refrigerant liquid flowing inside unit • Sound of drainage water through drain pipe
		• Sound due to temperature changes of parts
	<b>Discharged air smells during operation.</b>	• Indoor odor components, cigarette odor and cosmetic odor accumulated in the air conditioner and its air is discharged. • The unit inside is dirty. (Contact your dealer.)
	<b>Dewdrops accumulate near the air outlet during cooling operation.</b>	• Internal moisture is cooled by cool wind and accumulates as dewdrops.
	<b>Fog occurs during cooling operation.</b>	• If the air conditioner has been installed at places such as restaurants where large amounts of oil mist exist, cleaning is necessary because the unit inside (heat exchanger) is dirty. (Contact your dealer.)
	<b>Fog occurs during heating operation.</b>	• Defrost operation is in process.
	<b>The fan is rotating for a while even though operation stops.</b>	• The fan may rotate to dry the heat exchanger depending on the setting.
	<b>Dust is discharged.</b>	• Dust accumulated inside the indoor unit is discharged.
	<b>At the initial high-speed operation, the fan sometimes rotates faster than the setting speed. (3 to 30 minutes)</b>	• This is for operation check in order to confirm whether the fan motor rotation is within the range of use.
	<b>Humming noise comes out.</b>	• This is the sound of nanoe™ X being discharged.
	<b>nanoeX is not displayed on the remote controller.</b>	• Has nanoe™ X been set to OFF? → Set to ON.
	<b>⚠ nanoeX is displayed on the remote controller.</b>	• nanoe™ X is considered abnormal. (Contact your dealer.)
Outdoor unit	<b>No operation (When the power is turned on immediately / When operation is stopped and resumed immediately)</b>	• Operation is not activated for the first approx. 3 minutes because the compressor protection circuit is activated.
	<b>Noise occurs during heating operation.</b>	• Defrost operation is in process.
	<b>Steam comes out during heating operation.</b>	
	<b>The fan continues to rotate even after the operation is stopped using the remote controller.</b>	• This is for smooth operation.


# Troubleshooting

## Before Requesting Services

Symptom	Cause	Action
<b>The air conditioner does not operate although the power is turned on.</b>	Power failure or after power failure	Press the power ON/OFF button on the remote controller.
	The operation (power) button is turned off.	<ul style="list-style-type: none"> <li>• If the breaker is turned off, turn the power on.</li> <li>• If the breaker has been tripped, consult your dealer without turning it on.</li> </ul>
	Fuse blow out.	Contact your dealer.
<b>Poor cooling or heating performance</b>	The air intake or air outlet of indoor and outdoor units is clogged with dust.	Remove the dust.
	The fan speed switch is set to "Low".*	Change to "Medium" or "High".*
	Improper temperature settings	See "Tips for Energy Saving". (P.5)
	The room is exposed to direct sunlight in cooling mode.	
	Doors or windows are open.	
	The air filter is clogged.	See "Maintenance". (P.7)
	Too many heat sources in the room in cooling mode.	Use minimum heat sources and in a short time.
Too many people in the room in cooling mode.	Lower the temperature setting or change to "Medium" or "High".*	

\* Regarding the fan speed control display on the remote controller, see pages 12, 13.

### If your air conditioner does not work properly even after checking each item of "Before Requesting Services" and "Troubleshooting"

- Stop the operation immediately and turn the power off. Then contact your dealer and report the serial number and symptom. You also report if the inspection mark  and the letters E, F, H, L, P in combination with numbers appear on the LCD of the remote controller.
- Never repair the air conditioner by yourself since it is very dangerous for you to do so.

## Connectable outdoor unit lineup

### Europe

Outdoor unit type		4 HP	5 HP	6 HP	8 HP	10 HP
LE2	1-phase	U-4LE2E5	U-5LE2E5	U-6LE2E5	–	–
	3-phase	U-4LE2E8	U-5LE2E8	U-6LE2E8	–	–
LE1	3-phase	–	–	–	U-8LE1E8	U-10LE1E8
ME2	3-phase	–	–	–	U-8ME2E8	U-10ME2E8
MF3	3-phase	–	–	–	U-8MF3E8	U-10MF3E8

Outdoor unit type		12 HP	14 HP	16 HP	18 HP	20 HP
ME2	3-phase	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8
MF3	3-phase	U-12MF3E8	U-14MF3E8	U-16MF3E8	–	–

### Oceania

Outdoor unit type		4 HP	5 HP	6 HP	8 HP	10 HP
LE2	1-phase	U-4LE2R5	U-5LE2R5	U-6LE2R5	–	–
		U-4LE2R5E*	U-5LE2R5E*	U-6LE2R5E*	–	–
	3-phase	U-4LE2R8	U-5LE2R8	U-6LE2R8	–	–
		U-4LE2R8E*	U-5LE2R8E*	U-6LE2R8E*	–	–
LE1	3-phase	–	–	–	U-8LE1R8	U-10LE1R8
		–	–	–	U-8LE1R8E*	U-10LE1R8E*
ME2	3-phase	–	–	–	U-8ME2R8	U-10ME2R8
		–	–	–	U-8ME2R8E*	U-10ME2R8E*
MF3	3-phase	–	–	–	U-8MF3R7	U-10MF3R7

Outdoor unit type		12 HP	14 HP	16 HP	18 HP	20 HP
ME2	3-phase	U-12ME2R8	U-14ME2R8	U-16ME2R8	U-18ME2R8	U-20ME2R8
		U-12ME2R8E*	U-14ME2R8E*	U-16ME2R8E*	U-18ME2R8E*	U-20ME2R8E*
MF3	3-phase	U-12MF3R7	U-14MF3R7	U-16MF3R7	–	–

\* Salt-Air Damage Resistant Specifications

### Asia

Outdoor unit type		4 HP	5 HP	6 HP	8 HP	10 HP
LE2	1-phase	U-4LE2H4	U-5LE2H4	U-6LE2H4	–	–
		U-4LE2H4E*	U-5LE2H4E*	U-6LE2H4E*	–	–
	3-phase	U-4LE2H7	U-5LE2H7	U-6LE2H7	–	–
		U-4LE2H7E*	U-5LE2H7E*	U-6LE2H7E*	–	–
LE1	3-phase	–	–	–	U-8LE1H7	U-10LE1H7
		–	–	–	U-8LE1H7E*	U-10LE1H7E*
ME2	3-phase	–	–	–	U-8ME2H7	U-10ME2H7
		–	–	–	U-8ME2H7E*	U-10ME2H7E*

Outdoor unit type		12 HP	14 HP	16 HP	18 HP	20 HP
ME2	3-phase	U-12ME2H7	U-14ME2H7	U-16ME2H7	U-18ME2H7	U-20ME2H7
		U-12ME2H7E*	U-14ME2H7E*	U-16ME2H7E*	U-18ME2H7E*	U-20ME2H7E*

\* Salt-Air Damage Resistant Specifications

# Specifications

## Indoor unit

### Middle Static Pressure Duct


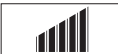



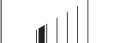
Model Name		S-15MF3E5A	S-22MF3E5A	S-28MF3E5A	S-36MF3E5A	S-45MF3E5A	S-56MF3E5A
<b>Power source</b>		220 - 230 - 240 V~ 50 - 60 Hz					
<b>Cooling capacity</b>	kW	1.5	2.2	2.8	3.6	4.5	5.6
	BTU/h	5,100	7,500	9,600	12,300	15,400	19,100
	Sensible kW	1.4	2.1	2.4	2.8	3.4	4.1
	Latent kW	0.1	0.1	0.4	0.8	1.1	1.5
<b>Heating capacity</b>	kW	1.7	2.5	3.2	4.2	5.0	6.3
	BTU/h	5,800	8,500	10,900	14,300	17,100	21,500
<b>Cooling electric power input*</b>	kW	0.060	0.060	0.060	0.060	0.060	0.089
<b>Heating electric power input*</b>	kW	0.060	0.060	0.060	0.060	0.060	0.089
<b>Sound pressure level **</b>	High dB(A)	31	31	31	31	31	35
	Medium dB(A)	28	28	28	28	28	32
	Low dB(A)	20	20	20	20	20	24
<b>Sound power level **</b>	High dB(A)	54	54	54	54	54	58
	Medium dB(A)	51	51	51	51	51	55
	Low dB(A)	43	43	43	43	43	47
<b>Unit dimensions (H×W×D)</b>	mm	250×800×730	250×800×730	250×800×730	250×800×730	250×800×730	250×800×730
<b>Net weight</b>	kg	26	26	26	26	26	26

#### Operation condition temperature range

- Cooling mode : 14°C~25°C WB
- Heating mode : 16°C~30°C DB

\* In the case of nanoe™ X “OFF”

\*\* Fan speed display on the remote controller

High	:  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6 series)
Medium	:  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6 series)
Low	:  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6 series)

Model Name		S-60MF3E5A	S-73MF3E5A	S-90MF3E5A	S-106MF3E5A	S-140MF3E5A	S-160MF3E5A	
<b>Power source</b>		220 - 230 - 240 V~ 50 - 60 Hz						
<b>Cooling capacity</b>	kW	6.0	7.3	9.0	10.6	14.0	16.0	
	BTU/h	20,500	24,900	30,700	36,200	47,800	54,600	
	Sensible kW	4.6	5.3	6.6	8.2	9.9	11.0	
	Latent kW	1.4	2.0	2.4	2.4	4.1	5.0	
<b>Heating capacity</b>	kW	7.1	8.0	10.0	11.4	16.0	18.0	
	BTU/h	24,200	27,300	34,100	38,900	54,600	61,400	
<b>Cooling electric power input*</b>	kW	0.079	0.079	0.136	0.146	0.265	0.330	
<b>Heating electric power input*</b>	kW	0.079	0.079	0.136	0.146	0.265	0.330	
<b>Sound pressure level **</b>	High	dB(A)	31	31	35	36	41	43
	Medium	dB(A)	28	28	33	32	36	37
	Low	dB(A)	23	23	25	27	32	33
<b>Sound power level **</b>	High	dB(A)	54	54	58	59	64	66
	Medium	dB(A)	51	51	56	55	59	60
	Low	dB(A)	46	46	48	50	55	56
<b>Unit dimensions (H×W×D)</b>	mm	250×1,000×730	250×1,000×730	250×1,000×730	250×1,400×730	250×1,400×730	250×1,400×730	
<b>Net weight</b>	kg	31	31	31	40	40	40	

**Operation condition temperature range**

• Cooling mode : 14°C~25°C WB



• Heating mode : 16°C~30°C DB

\* In the case of nanoe™ X “OFF”

\*\* Fan speed display on the remote controller

High :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6 series)

Medium :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6 series)

Low :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6 series)

# Specifications

## Outdoor unit

**mini VRF (Type LE1, LE2)**

**2WAY VRF (Type ME2)**

**3WAY VRF (Type MF3)**

**NOTE**

Refer to the Operating Instructions attached to the outdoor unit.

India Only

Information on hazardous constituents as specified in sub-rule 1 of rule 16 (1) in electrical and electronic equipment. Declaration of Conformity with the requirements of the E-Waste (Management) Amendment Rules 2018 with the rule 16 (1) limits with respect to Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls, Polybrominated diphenyl ethers. The content of hazardous substance with the exemption of the applications listed in SCHEDULE II of the E-Waste (Management) Amendment Rules 2018 :

1. Lead (Pb) – not over 0.1% by weight;
2. Cadmium (Cd) – not over 0.01% by weight;
3. Mercury (Hg) – not over 0.1% by weight;
4. Hexavalent chromium (Cr<sup>6+</sup>) – not over 0.1% by weight;
5. Polybrominated biphenyls (PBBs) – not over 0.1% by weight;
6. Polybrominated diphenyl ethers (PBDEs) – not over 0.1% by weight.



For the purpose of recycling to facilitate effective utilization of resources, please return this product to a nearby authorized collection center, registered dismantler or recycler, or Panasonic service center when disposing of this product.

Customer care number ( Toll free ) : 1800 103 1333 , 1800 108 1333

Please see the Panasonic website for further information on collection centers, etc. or call the customer care toll-free number <http://www.panasonic.com/in/corporate/sustainability/panasonic-india-i-recycle-program.html>

Do's & Don'ts: E-waste (Management) Amendment Rules 2018

S.No.	Do's	Don'ts
1.	All electrical and electronic products are required to be handed over only to the Authorized recycler.	The product should not be opened by the user himself / herself, but only by authorized service personnel.
2.	The product should be handed over only to authorized recycler for disposal.	The product is not meant for re-sale to any unauthorized agencies / scrap dealers / kabariwalas.
3.	Keep the product in an isolated area, after it becomes non-functional / unrepairable so as to prevent its accidental breakage.	The product is not meant for mixing into household waste stream.
4.	Refer to Operating Instructions for handling of end of life products.	Do not keep any replaced spare part(s) from the product in an exposed area.
5.	Always dispose products that have reached end of life at Panasonic India Authorized Service Centre.	Do not donate old electronic items to anybody. Do not dispose your product in garbage bins along with municipal waste that ultimately reaches landfill.
6.	Wherever possible or as instructed, separate the packaging material according to responsible waste disposal options and sorting for recycling.	Do not give e-waste to informal and unorganized sectors like Local Scrap Dealers / Rag Pickers.

Panasonic Corporation  
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