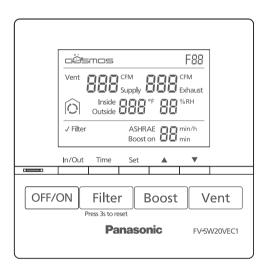
Panasonic

Installation and Operating Instructions Wall Control

Model No. FV-SW20VFC1



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READ AND SAVE THESE INSTRUCTIONS

Thank you for purchasing this Panasonic product.

Please read these instructions carefully before attempting to install, operate or service the Panasonic product. Please carefully read the "GENERAL SAFETY INFORMATION" (P.2~3) of this manual before use. Failure to comply with instructions could result in personal injury or property damage. Please explain to users how to operate and maintain the product after installation, and this booklet should be presented to users.

Please retain this booklet for future reference

GENERAL SAFETY INFORMATION

For Your Safety

To reduce the risk of injury, loss of life, electric shock, fire, malfunction, and damage to equipment or property, always observe the following safety precautions.

Explanation of symbol word panels

The following symbol word panels are used to classify and describe the level of hazard, injury, and property damage caused when the denotation is disregarded and improper use is performed.



Denotes a potential hazard that could result in death or serious injury.



Denotes a hazard that could result in minor injury.

NOTICE

Denotes a hazard that could result in property damage.

The following symbols are used to classify and describe the type of instructions to be observed.



This symbol is used to alert users to a specific operating procedure that must not be performed.



This symbol is used to alert users to a specific operating procedure that must be followed in order to operate the unit safely.



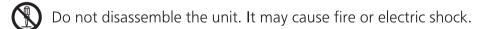
This symbol is used to alert users not to disassemble the equipment.

A WARNING





Disconnect power source before working on the product.



Never install the unit in a high humidity space.

Do not spray flammable cleaner directly onto the controller.

Do not touch the controller with wet hands or pour water on the controller, it may cause fire or electric shock.

O Do not install in a place where flammable gas may leak.

Discontinue use immediately if abnormal operation occurs.

O not use the unit for any purpose other than is what is intended.

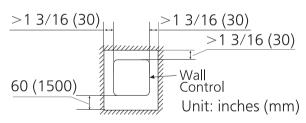
GENERAL SAFETY INFORMATION

A CAUTION

- Please wear appropriate personal protective equipment.
- Where appropriate, use the special-purpose or dedicated parts, such as the provided mounting fixtures, otherwise personal injury may result.
- Inspect all wiring connections ensuring they meet the correct current capacity.
- Disconnect power by switching off wall control first, then main switch and unplug the power plug before working on unit.

NOTICE

- On't press the wall control screen. It may cause a fault code, electric shock and screen breakage.
- Select a location where the device can be easily installed and accessed.
- Select a location where the device will stay dry and not directly exposed to sunshine.
- Select a flat location to prevent distortion. (Distortion may damage the wall control or cause a fault code.)
- If installation position is excessive high or low, it may be difficult to view the display screen, it's important to select the position where it can be easily viewed and accessed. (Standard height is about 5 ft (1.5m) from the ground)
- As shown in the figure, please secure the enough space around the installation position. Fix the base of wall control on the wall.

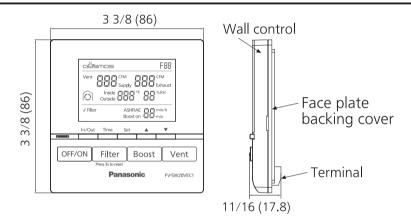


SUPPLIED ACCESSORIES

Part name	Appearance	Quantity
Wall control		1
Screws (ST4X25)	(Zaman	2
Installation and operating instructions		1
Wall anchors	-	2
Limited warranty		1

DIMENSIONS

Unit: inches (mm)



INSTALLATION

1. wiring preparation

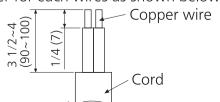


It's recommended to use the cable (14AWG~26AWG) for connecting product and wall control, and the length should not be longer than 33.3 ft (10 m).

(Note)

Strip insulation cover for each wires as shown below.

Unit: inches (mm)



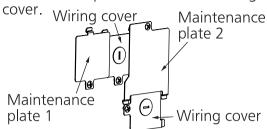
RXD RXD
OV SV

■ Attach matching wire-labels to each side of cable.

INSTALLATION

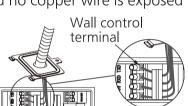
2. installing the wall control

(1) Open the knock-out hole and remove maintenance plate 1 and 2 and wiring cover



(2) Thread cables through conduits respectively and install the conduits into knock-out holes.

(3) Insert cables into the corresponding terminals of product. Make sure the lead wire labels correspond to the terminal label and the screw of terminal securely fastens the copper wire and no copper wire is exposed

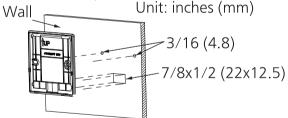


(4) Re-install the wiring covers and maintenance plates.

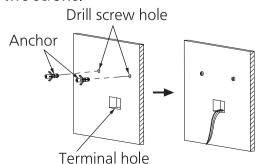
(5) Remove the face plate backing cover from the backing plate with a small flat screwdriver.



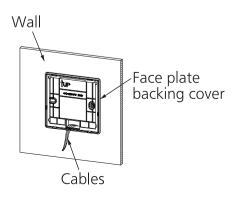
(6) Temporarily put the face plate backing cover on the wall, mark terminal hole and screw positions.



- (7) Remove the face plate backing cover, cut the terminal hole and drill screw holes (Φ5/32 ft (Φ4 mm)).
- (8) Insert wall anchors, and fix the face plate backing cover on the wall with two screws.

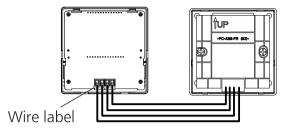


(9) Route the cables form the unit to the terminal hole.



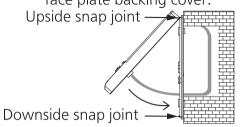
INSTALLATION

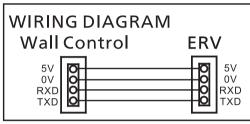
(10) Insert cables into the corresponding terminals of wall control according to the lead wire labels.



(11) Fix the wall control screen to the face plate backing cover.

Upside snap joint

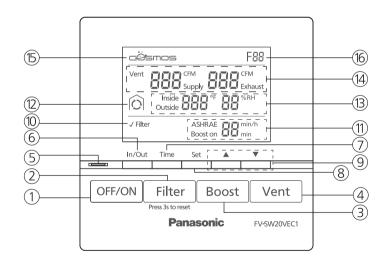




A CAUTION

- Make sure cables are not caught by circuit-board or resin clip. Otherwise, it may cause electrical leakage.
- Don't press the screen, it may cause distortion or break altogether.

BUTTON AND DISPLAY DESCRIPTION



(1) OFF/ON Button

Product standby / running

② Filter Reset Button

Press the button after maintenance for resetting accumulated running time

(3) Boost Button

Activate / Deactivate Boost Mode

4 Vent Button

Set supply air volume / exhaust air volume

(5) Boost display Light

Green: Boost mode on

6 In/Out Button

Display the inside or outside temperature and humidity

BUTTON AND DISPLAY DESCRIPTION

- 7 Time Button
- Set Boost time
- Set ASHRAE time
- Tilter Maintenance Display

Display filter needs to be cleaned or changed

- ③ Display inside & outside temperature and humidity
- Display inside temperature and humidity
 Display outside temperature and humidity

(8) Set Button

Confirm the air volume / time setting

- (1) ASHRAE/Boost on time Display
- Display ASHRAE time
- Display Boost time

(4) Air volume Display

Display supply air volume and exhaust air volume

(5) COSMOS Display

Display when Cosmos module is connected

(9) ▲▼ Button

- •Set the air volume setting
- •Set time "min, min/h"

Display Defrost Mode

Display the product in low temperature protection mode

- •Air exchange: ◎
- Circulation: ©-©-©-©-©-©
- •Stop operating: 📵

6 Error Code Display

An error code is displayed when the product is in failure, check troubleshooting guide for reference

OPERATION

Standby mode

- Press " OFF/ON ", the unit starts/standby
- ●The inside temperature (°F) and humidity (%) display in standby mode
- The unit operates in the last mode before stopping

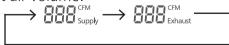
(Note)

When connected to the wall control, the control panel of the FV-20VEC1 will be disabled.

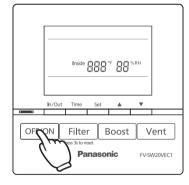
When the wall control is disconnected from the ERV, the ERV controls will be enabled.

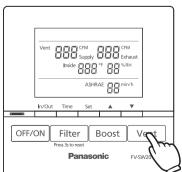
Function mode

- ●Air volume setting (Default: 120 CFM)
- 1) Press" Vent " to switch between supply air volume and exhaust air volume.



- ② Press" to choose and press" ▼" to adjust the volume (60, 80, 100, 120, 140, 160, 180, 200).
- ③ Press "_____" again to confirm the setting.





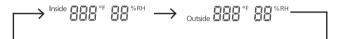
OPERATION

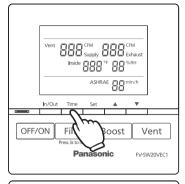
- ASHRAE time setting (Default: 60 min/h)
- ① Press the" _____ " to change the ASHRAE time.
- ② Press "☐ "to choose and press "▲▼" to adjust the ASHRAE time (60, 50, 40, 30, 20, 10).
- ③ Press"______" again to confirm the setting.

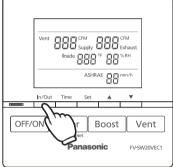
(Note)

For more detailed information regarding the ASHRAE intermittent timer control, please refer to the FV-20VEC1 manual.

• Press " to switch temperature and humidity between inside and outside.

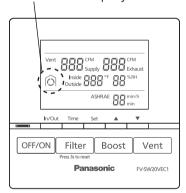






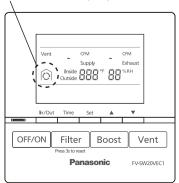
Defrost mode

- When outdoor temperature<14 °F, ERV will enter defrost mode, defrost icon will be displayed as below.
- ① Heat exchange: Defrost icon display

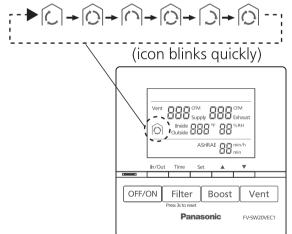


③ Stop operating:

Defrost icon display



② Circulation:



(Note

About defrost mode.

- The max ventilation air volume setting is 180 CFM in defrost mode.
- When ventilation air volume is 60 CFM~120 CFM, circulation air volume is 180 CFM. When ventilation air volume is 130 CFM~180 CFM, circulation air volume is 230 CFM.
- For more detailed information regarding the defrost mode, please refer to the FV-20VEC1 manual.

OPERATION

Boost mode

- Press "Boost of to enter boost mode, supply and exhaust air volume constant to 200 CFM.
- Boost on time setting (Default: 20 min)
- ① Press "_____"to change the boost on time, and press "▲▼" to adjust (60, 50, 40, 30, 20, 10)
- ② Press "set of confirm the setting"
- Exit boost mode:
- 1 Timer finishes.
- ② Press " Boost " again.
- ③ Press "Vent " to set supply and exhaust air volume, then ERV will exit boost mode.

Note

- Boost air volume will constant to 180 CFM when outdoor temperature<14 °F.
- For more detailed information on "Boost features and functions" please refer to the FV-20VEC1 manual.

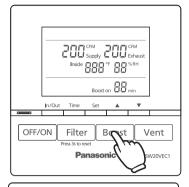
Filter reset

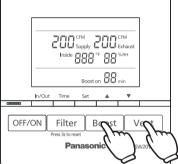
- When the filter requires cleaning, " ✓ Filter " will display.
- Press " Filter " 3 seconds to cancel the " ✓ Filter " display after filter maintenance.

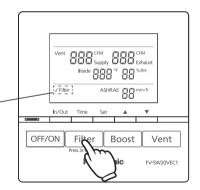
(Note)

For more information on filter maintenance, please refer to the FV-20VEC1 maintenance label on the front panel.

Filter maintenance display







TROUBLESHOOTING

• If product is malfunctioning, a fault code will display. Please reference the following codes below.

Fault code	Problem	Action
F01	Wall control communication error	Please disconnect the power and contact the dealer to check the wall control wiring connect
F02	Cosmos communication error	Please disconnect the power and contact the dealer for repair
F03	PCB board error	Please disconnect the power and contact the dealer for repair

TROUBLESHOOTING

Fault code	Problem	Action
F10	OA temperature sensor error	Please disconnect the power and contact the dealer for repair
F11	OA humidity sensor error	Please disconnect the power and contact the dealer for repair
F12/F13	RA temperature and humidity sensor error	Please disconnect the power and contact the dealer for repair
F20	SA motor error	Please disconnect the power and contact the dealer for repair
F21	EA motor error	Please disconnect the power and contact the dealer for repair
F30	OA damper error	Please disconnect the power and contact the dealer for repair
F31	EA damper error	Please disconnect the power and contact the dealer for repair
F32	Center damper error	Please disconnect the power and contact the dealer for repair

SPECIFICATIONS

Model No.	Voltage	Frequency (Hz)	Power consumption (W)	Net weight lb.(kg)
FV-SW20VEC1	DC 5 V	_	0.44	0.187 (0.085)

PRODUCT SERVICE

Warning Concerning Removal of Covers.

The unit should be serviced by qualified technicians only.

Your product is designed and manufactured to ensure a minimum of maintenance. Should your unit require service or parts, call Panasonic Call Center at 1-866-292-7299 (USA) or 1-800-669-5165 (Canada).

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