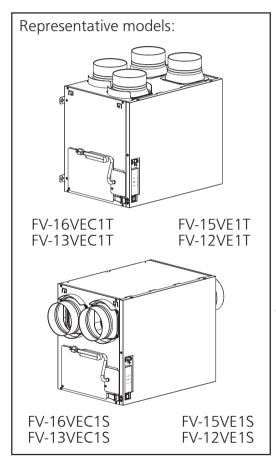
Panasonic

Installation and Operating Instructions

English

Energy Recovery Ventilator

Model No. FV-16VEC1T FV-16VEC1S FV-13VEC1T FV-13VEC1S FV-15VE1T FV-15VE1S FV-12VE1T



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This manual is also available online.

16VC1T450B

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 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 manual should be presented to and retained by the end users 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.



This symbol is used to alert users to make sure of grounding when using the equipment with the grounding terminal.

MWARNING





Never install the unit in a high humidity space, such as a bathroom, kitchen or laundry room.

O Do not install with a method which is not approved in the instructions.

Do not disassemble the unit. It may cause fire or electric shock.

Use this unit only in the manner intended by Panasonic. If you have any questions, contact Customer Service.

Installation work and electrical wiring must be performed by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.

Ceiling joist and wall stud must be able to withstand a static load more than five times the weight of the product.

GENERAL SAFETY INFORMATION

- The special-purpose or dedicated parts, such as mounting fixtures, must be used if such parts are provided.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating Refrigeration and Air Conditioning Engineers (ASHRAE) and the local code authorities.
- Install the unit in the area where air temperature is above 50 °F (10 °C) to avoid condensation in unit.

A CAUTION

- For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- O Do not kink the power cord.
- On not install the unit in an area where the air stream temperature may exceed 104 $^{\circ}$ F (40 $^{\circ}$ C).
- The unit must be installed in a conditioned space such as a mechanical room or basement.
- The OA duct and EA duct must be connected directly to the outside.

 Refer to local codes for termination locations.
- Make certain that the electric service supply voltage is AC 120 V, 60 Hz.
- Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).
- Always disconnect the power source before working on or near the fan, motor, fixture or wiring cover.
- Protect the power cord from sharp edges, oil, grease, hot surfaces, chemicals or other objects.
- This product are intended for residential use only.
- When the product is no longer to be used, it must not be left in place but removed, to prevent it from possibly falling.
- Disconnect power by switching off standby switch first, then main switch and unplug before working on unit.

NOTICE

O Do not install the unit where ducts are configured as shown below.









Excessive bending

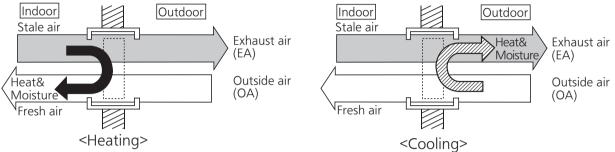
Successive bending

Squeezed duct

Bend close to duct adapter

DESCRIPTION

Energy Recovery Introduction: ERV can transfer both heat and humidity and recover energy from that humidity. ERV can exchange energy between "stale" EA and "fresh" OA, by transferring heat and moisture into the incoming cold air, and pre-cooling and reducing the humidity of the incoming hot air. This helps maintain a fresh environment even when the heating or cooling system is not operating.



<Frost prevention operation>

The ERV defrosts automatically according to outdoor temperature.

On FV-16VEC1T/S and FV-13VEC1T/S models, frost prevention operation can be selected from recirculation and exhaust. (see setting configuration)

For FV-16VEC1T/S and FV-13VEC1T/S

Outdoor temp.	Mode	Operation time
> 2 2° E / E° C \	Vent	Continued
>23°F (-5°C)	Defrost	-
23°F (-5°C)-	Vent	20 min
5°F (-15°C)	Defrost	10 min
5°F (-15°C)-	Vent	14 min
-17°F (-27°C)	Defrost	10 min
-17°F (-27°C)-	Vent	7 min
-22°F (-30°C)	Defrost	10 min
≤-22°F (-30°C)	Vent	Stop
≥-22 F (-30 C)	Defrost	*

For FV-15VE1T/S and FV-12VE1T/S

Outdoor temp.	Mode	Operation time
>23°F (-5°C)	Vent	Continued
` ′	Defrost	-
23°F (-5°C)- 14°F (-10°C)	Vent	20 min
14°F (-10°Ć)	Defrost	10 min
≤14°F (-10°C)	Vent	Stop
≤14 F (-10 C)	Defrost	*

Note

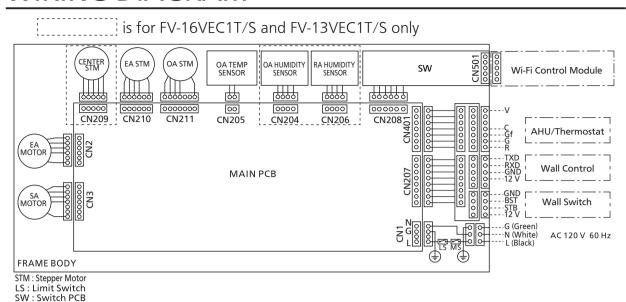
- (1) There are 10 min additional frost prevention every 6 cycles.
- (2)For FV-16VEC1T/S and FV-15VE1T/S, air volume is limited to maximum 130CFM when outdoor temperature is under $23^{\circ}F(-5^{\circ}C)$.
- (3)Air volume difference between SA and EA is limited to 20CFM when outdoor temperature is under $23^{\circ}F(-5^{\circ}C)$.

SUPPLIED ACCESSORIES

Part name	Appearance	Quantity
Cover for hardwired connection		1
Hardwired connector		1
L plate	4:	4
Screw (M4X8)	@III	4
Long screw (ST4.2X30)	© minim	4
Installation and operating instructions & Warranty sheet		1

^{*}Operates for 4 min per hour to check outdoor temperature.

WIRING DIAGRAM

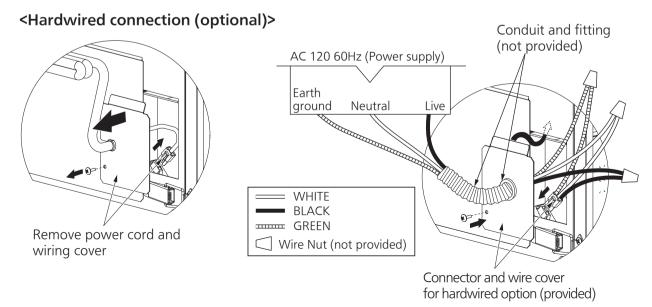


WIRING METHOD

MS: Main Switch



Installation work and electrical wiring must be performed by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction, use UL approved wire nuts.



WIRING METHOD

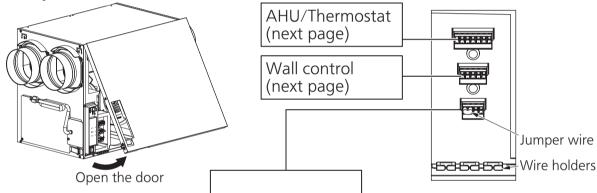
A CAUTION

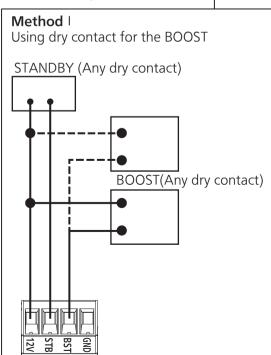
- Make sure that the all wires are connected to the right terminal. Miswiring may cause a permanent damage to the control circuit.
- Do not connect more than one Standby switch. Do not connect more than two Boost switches.

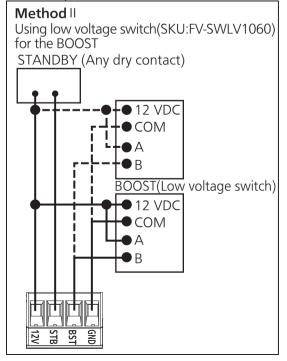
Note

- (1)The terminal of standby connection has been connected by jumper wire as factory default. If connecting with Standby switch, please remove the jumper wire.
- (2)Insert wires into the corresponding terminals deeply through the wire holders. Make sure the screw of the terminal securely fastens the copper wire and the copper wire is not exposed.
- (3)Before closing the door, make sure all wires are put through the wire holders.
- (4) Recommended wire gauge is 14AWG-24AWG





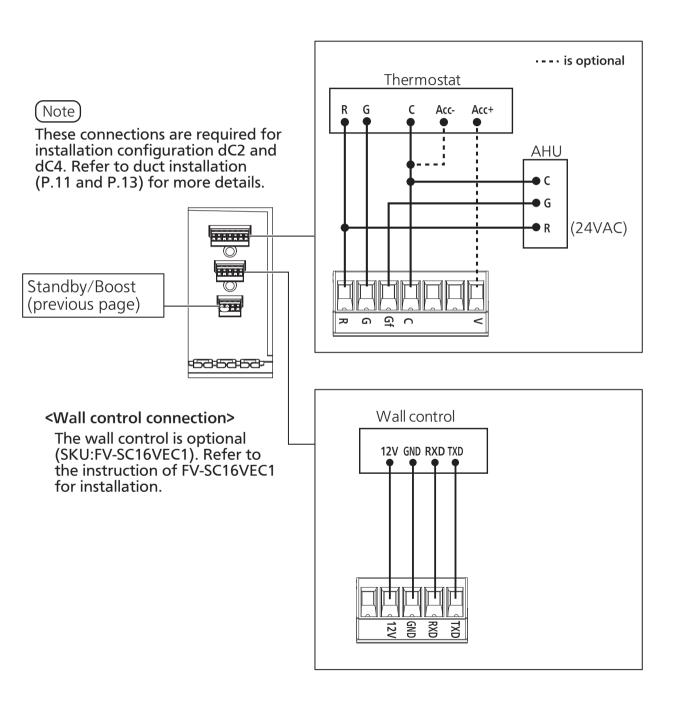




WIRING METHOD

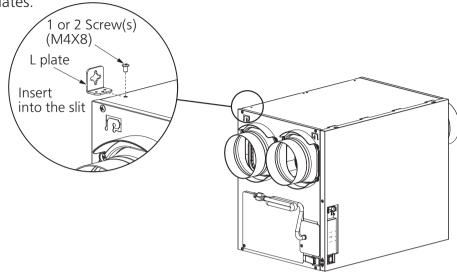
<AHU/Thermostat connection>

These connections allows the unit to synchronize with AHU and thermostat.



INSTALLATION I (WALL MOUNT)

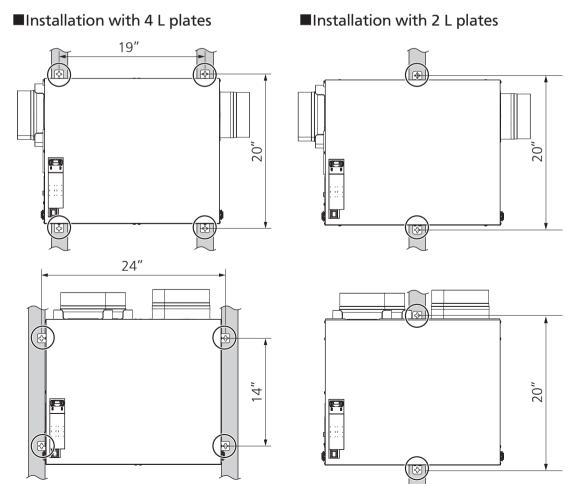
1 Mount L plates.



2 Mount ERV to studs with the long screws (ST4.2X30)

Note

Keep 3" clearance on both sides for servicing.

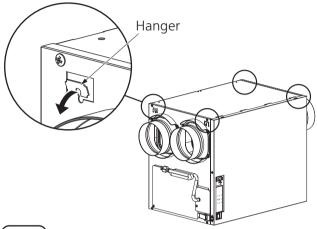


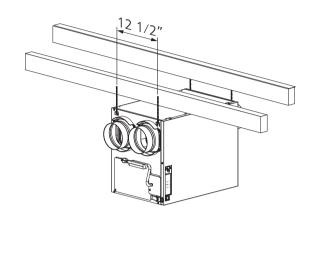
INSTALLATION II (CHAIN MOUNT)

1 Slightly bend the hangers on the sides of ERV. 2 Hang the ERV from the joists using chains.

A CAUTION

 $igcolon{}{igcolor}{}$ Do not bend the hangers more than 90°.





(Note)

- (1)The chains are not provided. Use only chains with a working load limit of 66 lbs. (30 kg) or above.
- (2) Make sure ERV is level after installation.
- (3) Keep 3" clearance on both sides for servicing.

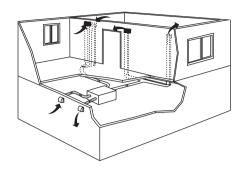
NOTICE

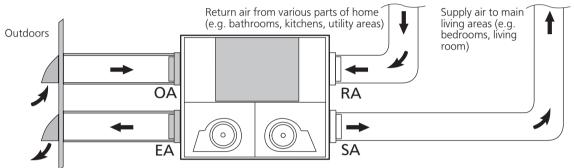
It is recommended to install:

- in a conditioned space away from living areas (dining room, living room, bedroom).
- by suspending with chains to minimize transmission of vibration.
- using vibration isolation pads for wall installation.
- ducts as straight as possible and minimize the number of elbows.

Method I - Fully dedicated ducted installation(dC1)

This method draws return air from specific points in the house where the poorest indoor air quality exists (bathroom and kitchen) and supplies outside air to specific locations (all bedrooms and living areas) of the house. This system is not connected to an AHU.

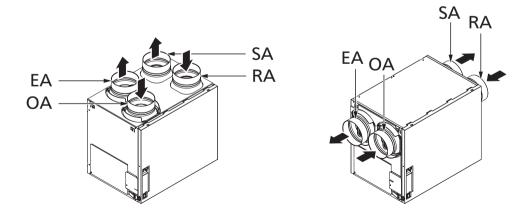




*This simplified figure is for reference only

(Note)

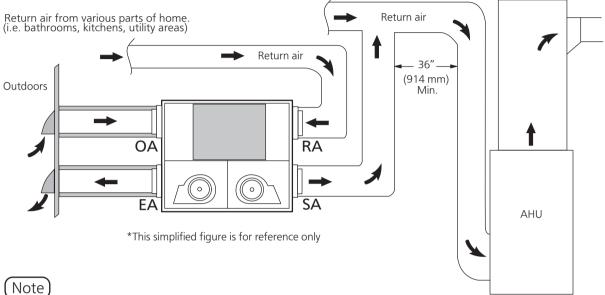
- (1) Check local codes and authority having jurisdiction for acceptance.
- (2)Must Have 2-3 ft straight run on all duct attachments points before any elbows.
- (3)The distance between two outdoor hoods should be compliant with local codes.
- (4)The dC1 option must be selected in configuration setting for this installation (see P.16-17).



Method II - Partially dedicated ducted installation(dC2)

This method draws return air from specific points in the house where the poorest indoor air quality exists (bathroom and kitchen) and supplies an equal amount of outside air into the return air duct of the AHU.

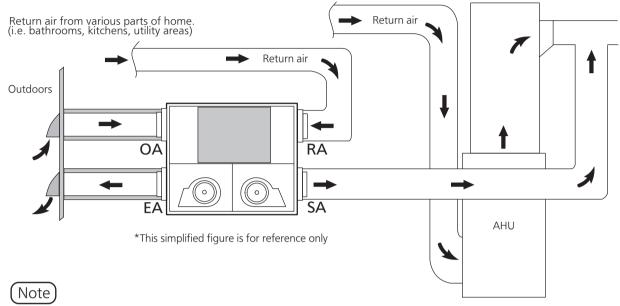
The AHU should be running when the ERV is operating to evenly distribute the outside air throughout the house.



- (1)Check local codes and authority having jurisdiction for acceptance.
- (2) Must Have 2-3 ft straight run on all duct attachments points before any elbows.
- (3)The distance between two outdoor hoods should be compliant with local codes.
- (4)The dC2 option must be selected in configuration setting for this installation (see P.16-17).
- (5) It is mandatory that the AHU is synchronized by connecting the signal wires (see P.6-7).
- (6)The ERV is normally balanced on high speed with the AHU blower on.

Method Ⅲ- Partially dedicated ducted installation(dC3)

This method draws return air from specific points in the house where the poorest indoor air quality exists (bathroom and kitchen) and supplies an equal amount of outside air into the supply air duct of the AHU.



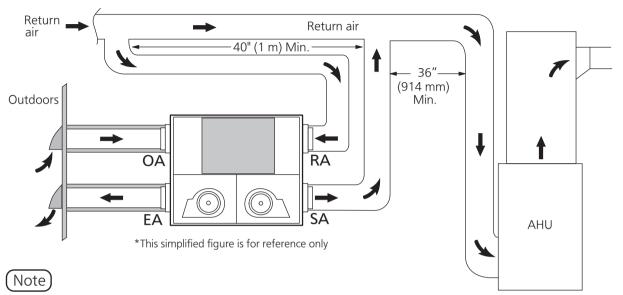
- (1) Check local codes and authority having jurisdiction for acceptance.
- (2) Must Have 2-3 ft straight run on all duct attachments points before any elbows.
- (3) The distance between two outdoor hoods should be compliant with local codes.
- (4)The dC3 option must be selected in configuration setting for this installation (see P.16-17).
- (5) It is recommended that AHU is synchronized by connecting the signal wires (see P.6-7).
- (6)The ERV is normally balanced on high speed with the AHU blower on.



To avoid errors caused by high pressures, this configuration is not recommended to be used with a high velocity HVAC/AHU system.

Method IV- Simplified ducted installation (Return method)(dC4)

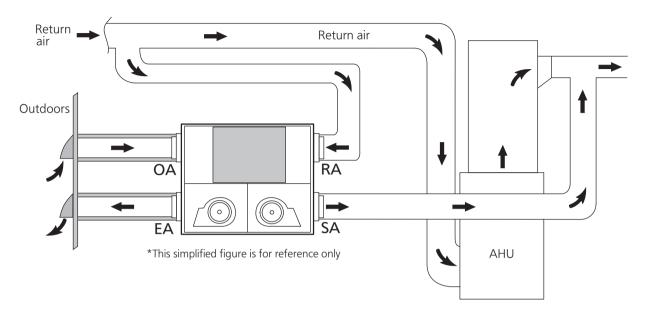
This method draws return air from the return air duct of the AHU and supplies an equal amount of outside air farther downstream into the return duct.



- (1) Check local codes and authority having jurisdiction for acceptance.
- (2) Must Have 2-3 ft straight run on all duct attachments points before any elbows.
- (3)The distance between two outdoor hoods should be compliant with local codes.
- (4)The dC4 option must be selected in configuration setting for this installation (see P.16-17).
- (5) It is mandatory that AHU is synchronized by connecting the signal wires (see P.6-7).
- (6) The ERV is normally balanced on high speed with the AHU blower on.
- (7) This installation does not allow recirculation mode to operate.

Method V- Alternate of Method IV (dC5)

This method draws return air from the return air duct of the air furnace and supplies an equal amount of outside air into the supply air duct of the AHU.



(Note)

- (1) Check local codes and authority having jurisdiction for acceptance.
- (2) Must Have 2-3 ft straight run on all duct attachments points before any elbows.
- (3)The distance between two outdoor hoods should be compliant with local codes.
- (4)The dC5 option must be selected in configuration setting for this installation (see P.16-17).
- (5) It is recommended that AHU is synchronized by connecting the signal wires (see P.6-7).
- (6)The ERV is normally balanced on high speed with the AHU blower on.
- (7)This installation does not allow recirculation mode to operate.

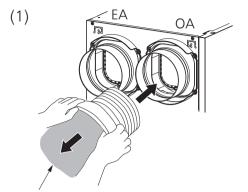


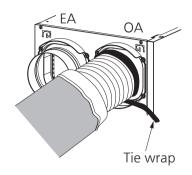
To avoid errors caused by high pressures, this configuration is not recommended to be used with a high velocity HVAC/AHU system.

Install insulated ducts to the OA and EA adapter.

(2)

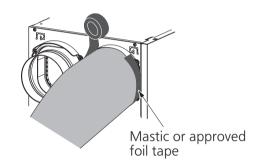
(4)



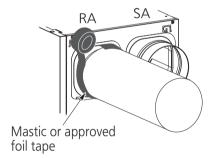


Pull back the insulation





2 Attach duct (rigid galvanized duct, etc.) to the SA and RA adapter.



To avoid transmission of vibrations, it is recommended to use a 6-inch section of flexible duct to connect rigid ducts.

3 Install outdoor hood and connect with insulated ducts.

If separate hoods are used, locate them at least 10 ft (3 m) apart. Seal hoods with caulk or other similar material.

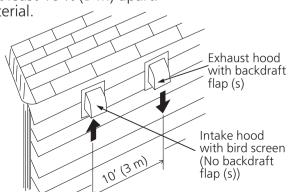
CAUTION



The intake side duct must be connected to the outside and at least 6 ft (1.8 m) away from the exhaust of appliances such as furnace, dryer, fuel burning appliances, etc.

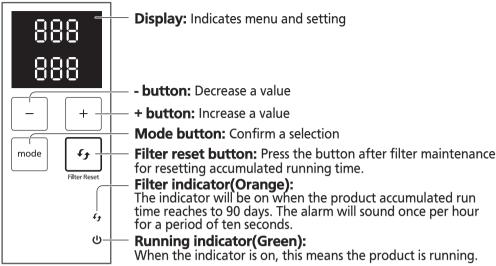
Note

Please refer to the local codes for detail.



OPERATION

<Control panel>



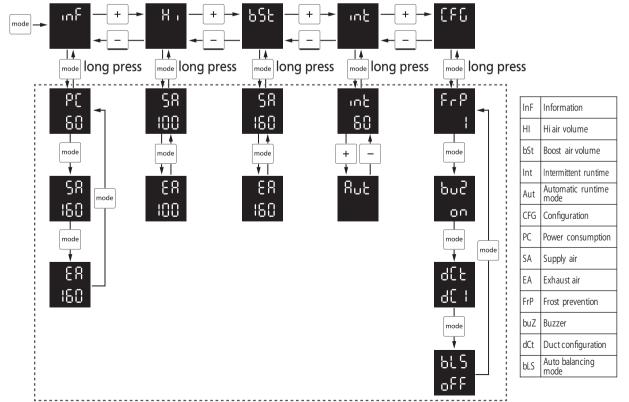
Main switch: Power on or off for ERV. Push the main switch completely to the on/off position when turning on/off.

Note The unit will consume some electricity unless you turn off the main switch. It is recommended to put the unit in standby mode by using a switch or the wall control before turning off the main power switch. This will allow the exterior dampers to close and prevent unwanted passive air flow.

<Display navigation>

Press the mode button to enter the menu selection.

Press +/- button to cycle through settings and press and hold mode button to enter each setting.



OPERATION

<Setting configuration>



In each setting, press and hold the mode button to change.



Information

Indicate the status of ERV

PC: Current power consumption (W)

SA: Current supply air volume (CFM) EA: Current exhaust air volume (CFM)

Hi air volume

Set the air volume of ventilation

SA: Set the supply air volume (CFM) by +/- button **EA**: Set the exhaust air volume (CFM) by +/- button

Note

To use Lo air volume setting, wall control FV-SC16VEC1 must be connected (sold separately)

6SE

Boost air volume

Set the air volume when boost switch (optional) is on.

SA: Set the supply air volume (CFM) by +/- button **EA**: Set the exhaust air volume (CFM) by +/- button

Note)

When Boost is set lower than Hi, Hi will decrease accordingly.

տե

Intermittent runtime Set the ASHRAE timer

Set the runtime (min/h) by +/- button Aut: The runtime will be automatically set as follows according to outdoor temperature.

Outdoor temperature	Runtime(min/h)
Less than -25°C (-13°F)	15
-25°C to -7°C (-13°F to 19°F)	20
-7°C to 10°C (19°F to 50°F) 1	40
10°C to 25°C (50°F to 77°F)	60
25°C to 28°C (77°F to 82°F)	30
28℃ to 33℃ (82°F to 91°F)	20
Above 33℃ (91°F)	15



Configuration

Set other options

FrP: Set frost prevention mode by +/- button (FV-16VEC1T/S and FV-13VEC1T/S only)

1: Recirculation (factory setting)

2: Exhaust

buZ: Set the filter buzzer by +/- button

on (factory setting)

dCt: Set the duct configuration by +/- button

dC1 to dC5 (refer to DUCT INSTALLATION)

bLS: Set the auto balancing mode by +/- button

oFF (factory setting)

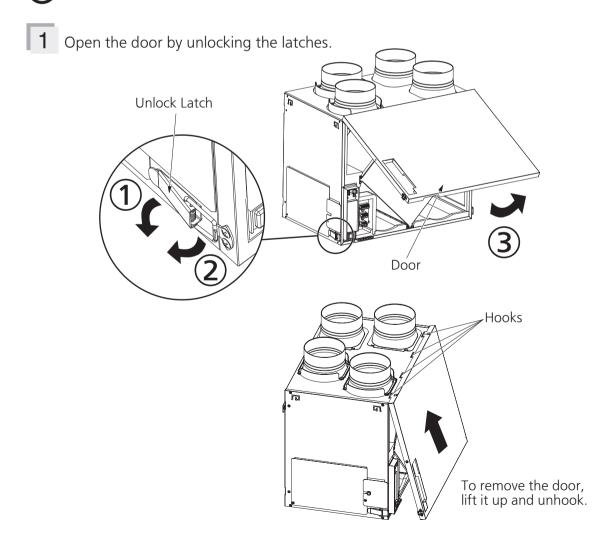
Note

When the auto balancing mode is on, if the air volume of either the supply or exhaust is reduced, the other will be adjusted automatically.

MAINTENANCE

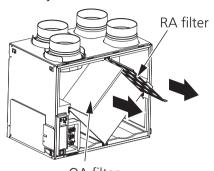
A CAUTION

- Electric shock may result. Disconnect power by switching off main switch, then unplug before working on the unit. If a standby switch is connected, it is recommended to switch it off first.
- Routine maintenance must be performed every 2 or 3 months. Clogged filters may cause condensation on the unit due to air flow reduction.
- Please wear gloves to avoid pinching fingers during maintenance.
- Please pay attention to dust, condensation water, or parts that may drop down when the door is opened.
- \bigcirc Never use gasoline, benzene, thinner or any other such chemicals to clean the ERV.
- O Do not allow water to enter ERV.
- O Do not immerse resin parts in water over 60 °C.

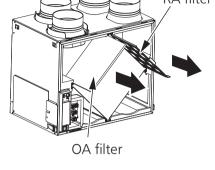


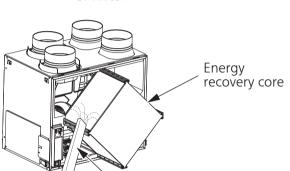
MAINTENANCE

Clean the OA filter, RA filter and energy 2 recovery core.

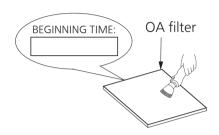


It is suggested to replace the OA filter every 6 months. Please fill in beginning time on new OA filter before replacing. Please replace OA filter by Panasonic Model FV-FL1316VE1 or FV-FL0815VE1 or FV-FL0616VE1.



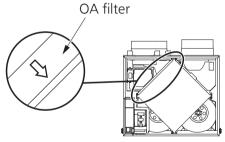


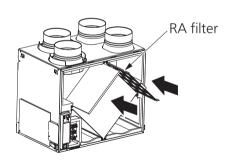
Vacuum



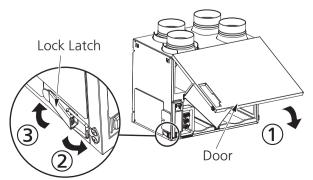


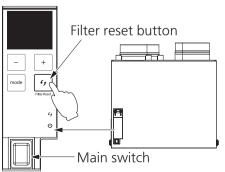
3 Reinstall the filters.





- 4 Reinstall and close door by locking the latches.
- Connect power and press filter reset button. When the unit beeps, the filter reset 5 timer will be reset.





TROUBLESHOOTING

If a problem is encountered, please investigate it by going through the following items. If the problem still persists, please disconnect the power and contact the dealer for repair.

ii the problem st	iii persi:	sts, pieas	se discon	nect the power and contact the dealer for repair.
Problem		Running indicator (Green)	Filter indicator (Orange)	Action
1.The ERV doesn't	_	Off	Off	 Check the power is connected. Check the door is closed. Check that the main switch on the product is on. Check if the spring on the inside of the door is damaged or deformed.
		On	Off	■ ERV running interval according to the ASHRAE time setting. ■ When outdoor temperature is very low ERV stops operating automatically.(see P.4)
2.The HVAC/AHU doesn't work when ERV works.	-	On	Off	■ Check the wiring connection. (P.6-7)
3.Alarm sounds (10 sec every hour) and ERV works.	-	On	On	The RA filter and OA filter need to be maintained. If you do not want the buzzer notification, see configuration setting (p.16-17).
	F03	Blink	Off	■ PCB error, please disconnect the power and contact the dealer for repair.
	F10	Blink	Off	■ OA temperature sensor error, please disconnect the power and contact the dealer for repair.
4.Alarm sounds (30 sec every hour)	F20	Blink	Off	SA motor error, please disconnect the power and contact the dealer for repair.
and ERV doesn't work.	F21	Blink	Off	■ EA motor error, please disconnect the power and contact the dealer for repair.
	F60	Blink	Off	Supply air flow is significantly decreasing. Check the ducting and the filter.
	F61	Blink	Off	Exhaust air flow is significantly decreasing. Check the ducting and the filter.
	F01	Blink	Off	■ Wall control communication error. Check the wall control wiring.(P.6-7)
	F04	Blink	Off	■ PCB communication error. Contact the dealer for repair. *
	F11	Blink	Off	■ OA humidity sensor error. Contact the dealer for repair. *
5.Alarm sounds	F12	Blink	Off	■ RA temperature sensor error. Contact the dealer for repair. *
(30 sec every hour) and ERV works.	F13	Blink	Off	■ RA humidity sensor error. Contact the dealer for repair. *
	F30	Blink	Off	■ Damper error, please disconnect the power and contact the dealer for repair.
	H60	Blink	Off	■ Supply air flow is decreasing. Check the ducting and the filter.
	H61	Blink	Off	Exhaust air flow is decreasing. Check the ducting and the filter.

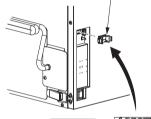
^{*}Some functions will be limited when this error is encountered.

TROUBLESHOOTING

Problem		Running indicator (Green)	Filter indicator (Orange)	Action
6.ERV behaves differently from the selected air flow settings.	-	On	Off	 When product runs in recirculation mode for frost prevention, the air volume will be more than setting and sound will be slightly louder than normal operation. When outdoor temperature is less than 23 °F (-5 °C), the product will restrict air volume automatically to protect energy recovery core.

Wi-Fi Control Module

Remove connector cover







SCAN QR CODE FOR Wi-Fi MODULE'S INSTRUCTION OR VISIT WEB SITE

http://WP100PBA-QR.swidget.com www.swidget.com

■ WP100PBA Swidget® Wi-Fi Control Module (sold separately)

Wi-Fi Plug'N Play™ features

- Wireless Plug 'N Play™ control module for Panasonic ventilation products.
- Connect and control Panasonic ventilation products with the Swidget iOS or Android app through 2.4 GHz Wi-Fi and/or Bluetooth mesh.

Swidget app features

- Control the air flow settings of all compatible Panasonic ventilation products with an always-ON or timer.
- View the supply air and exhaust air CFM, temperature and humidity of compatible Panasonic ventilation products.
- Receive notifications for faults, filter replacement and filter cleaning for compatible Panasonic ventilation products.
- Monitor the energy consumption of compatible Panasonic ventilation products.

A WARNING

- Turn off power at the circuit breaker or fuse and test that the power is off before installing or removing any module.
- Not for use to control medical or life support equipment.
- For INDOOR use only: 0°C 40°C (32°F 104°F).
- Module can only be installed in one orientation. Rear alignment pins prevent incorrect installation. Do not forcibly install a module.
- Requires a wireless router and Internet connection for device setup.
- Double check any external Wi-Fi settings for accuracy before using them.
- Actual wireless performance in a home depends on floor plan and router location.

SPECIFICATIONS

<Ventilation Performance>

Model No.	odel No. Voltage (V)		Duct	Static pressure	Net aiı (CF		Power consumption (W)	Weight Ib.(kg)	
					Exhaust	Supply	Fan unit		
FV-16VEC1T	120	60	6"	0.2"WG	160	160	185	46	
FV-16VEC1S	120	00	O	0.4"WG	160	160	200	(20.9)	
FV-13VEC1T	420	60	6"	0.2"WG	130	130	119	46	
FV-13VEC1S	120	60	60	O	0.4"WG	130	130	145	(20.9)
FV-15VE1T	120	60	6"	0.2"WG	150	150	110	45	
FV-15VE1S	120	60	0	0.4"WG	150	150	130	(20.4)	
FV-12VE1T	120	60	6"	0.2"WG	120	120	75	45	
FV-12VE1S	120	60	Ö	0.4"WG	120	120	95	(20.4)	

<Energy Performance>

Model No. M	Mode	Supply temperature		Net air flow		Power consumption	Sensible recovery	Adjusted sensible	Net moisture
		°F	°C	L/s	CFM	(W)	efficiency	recovery efficiency	transfer
		32	0	17	36	25	82	84	0.81
Hoatin	Heating	32	0	31	66	44	79	81	0.74
	ricating	32	0	61	130	109	73	75	0.64
FV-16VEC1T		-13	-25	31	65	163	60	65	0.60
FV-16VEC1S							Tot	tal recovery efficier	ncy
	Cooling	95	35	17	36	26		73	
	Cooming	95	35	31	66	48		68	
		95	35	57	120	110		61	

Model No.	Mode	Supply temperature		Net air flow		Power consumption	Sensible recovery	Adjusted sensible recovery efficiency	Net moisture
		°F	°C	L/s	CFM	(W)	efficiency	recovery efficiency	transfer
		32	0	17	36	26	81	83	0.80
	Heating	32	0	31	66	48	78	80	0.73
	rieating	32	0	59	125	109	73	75	0.63
FV-13VEC1T		-13	-25	31	65	163	60	65	0.60
FV-13VEC1S							Total recovery efficiency		
	Cooling	95	35	17	36	27		71	
	Cooming	95	35	31	66	50	67		
		95	35	57	120	112	58		

Model No.	Mode	Supply temperature		Net air flow		Power consumption	Sensible recovery	Adjusted sensible recovery efficiency	Net moisture
		°F	°C	L/s	CFM	(W)	efficiency	recovery efficiency	transfer
Н		32	0	17	36	20	77	79	0.67
	Heating	32	0	31	66	33	73	75	0.58
FV-15VE1T	_	32	0	71	150	98	64	66	0.50
FV-15VE1S							Total recovery efficiency		
1 V-13VL13	Cooling	95	35	17	36	23		70	
	Cooling	95	35	31	66	37	64		
		95	35	57	120	102			

Model No.	Mode	Supply temperature		Net air flow		Power consumption	Sensible recovery	Adjusted sensible	Net moisture
		°F	°C	L/s	CFM	(W)	efficiency	recovery efficiency	transfer
Heati		32	0	17	36	22	76	78	0.66
	Heating	32	0	31	66	35	72	74	0.57
E\ / 12\ /E1T		32	0	57	120	73	65	67	0.49
FV-12VE1T FV-12VE1S							Total recovery efficiency		
V-12 VL13	Cooling	95	35	17	36	24		68	
	Cooming	95	35	31	66	39	61		
		95	35	52	110	77	53		

The testing of the ventilation performance and the energy performance is in accordance with CSA-C439-18 standard.

Panasonic Corporation of North America

2 Riverfront Plaza Newark, NJ 07102

Panasonic Ventilating Fan Limited Warranty

Panasonic Corporation of North America ("the Warrantor") will, at its sole discretion, replace this product with new parts or exchange this product, free of charge, in the USA, in the event of defects in material or workmanship in accordance to the following:

ALL Parts: For period of 3 years (36 months)
DC Motor: For period of 6 years (72 months)
LED Light Unit: For period of 5 years (60 months)

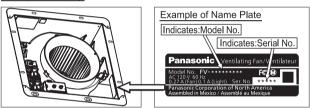
Service, in the USA, can be obtained during the warranty period by contacting the selling Distributor or Panasonic Customer Call Center at 1-866-292-7299, toll free.

This warranty does not cover labor charges for removal and installation of parts. This warranty is extended only to the original purchaser of a new product, which was not sold "as is", who purchased the product either directly from the Warrantor or from the Warrantor's authorized resellers (including authorized retail and Internet-based sellers), unless otherwise prohibited by law.

This warranty only applies to products purchased in the United States.

To claim warranty proof of purchase date will be required, in addition to fan model and serial number as shown in the photos below.

Example of display



Ceiling Insert Type Vent-Fan

Name Plate

This warranty only covers failures due to defects in materials or workmanship that occur during normal use and does not cover shipping damages, whether visible or concealed, normal wear or cosmetic damage. The warranty does not cover failures that are caused by products and peripherals not supplied by the Warrantor, or failures which result form accident, misuse, abuse, negligence, mishandling, misapplication, alteration, modification, faulty installation, improper setups or adjustments, improper or lack of maintenance, alterations or modifications, power line surge, improper line voltage, lightning damage, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above. THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL CONSEQUENTIAL, OR PUNITIVE DAMAGES, INCLUDING, WITHOUT LIMITATION, LOSS OF GOODWILL, PROFITS OR REVENUE, LOSS OF USE OF THIS PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF SUBSTITUTE PRODUCT, DOWNTIME COST, OR CLAIMS OF ANY PARTY DEALING WITH BUYER FOR SUCH DAMAGES, RESULTING FROM THE USE OF THIS PRODUCT OR ARISING FROM BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE OR ANY OTHER LEGAL THEORY, EXCEPT AS EXPRESSLY PROVIDED ABOVE. THERE IS NO WARRANTY OR ANY OTHER KIND, EXPRESS OR IMPLIED, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitation may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your Distributor or Panasonic Customer Call Center. If the problem is not handled to your satisfaction, then write to Panasonic Corporation of North America at the address indicated above.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest distributor, or make Customer Service and Literature requests by visiting our Web Site at: us.panasonic.com/ventfans

or send your request by E-mail to: ventfans@us.panasonic.com

You may also contact us directly at: 1-866-292-7299 Monday-Friday 9 am - 6 pm, EST.

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases

Purchase Parts and Accessories for Panasonic Ventilation Products by visiting our Website:

Consumers:

www.buypanasonicparts.com

or send your request by Email to: npcparts@us.panasonic.com You may also contact us directly at 1-800-332-5368 (Monday-Friday 8am to 6pm, EST.)

Distributors:

Send your request by Email to: npcparts@us.panasonic.com
You may also contact us directly at 1-866-292-7299
(Monday-Friday 9 am - 6 pm, EST.)

Panasonic Consumer Electronics Company Customer Service Group 2 Riverfront Plaza, Newark, NJ 07102

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

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 1-866-292-729

Should your unit require service or parts, call Panasonic Call Center at 1-866-292-7299 (USA) or 1-800-669-5165 (Canada).

For FV-16VEC1T/S and FV-13VEC1T/S

To ensure quiet operation of the ENERGY STAR certified ERV, each product model must be installed using sound attenuation techniques appropriate for the installation.

The way your energy-recovery ventilator is installed can make a significant difference to the electrical energy you use. To minimize the electricity use of energy-recovery ventilator, a stand-alone fully ducted installation is recommended. If you choose a simplified installation that operates your furnace air handler for room-to-room ventilation, an electrically efficient furnace that has an electronically commutated (EC) variable speed blower motor will minimize your electrical energy consumption and operating cost.

Installation of a user-accessible control with your product model will improve comfort and may significantly reduce the product model's energy use.

This product earned the ENERGY STAR® by meeting strict energy efficiency guidelines set by NaturalResources Canada and the US EPA. This product meets ENERGY STAR requirements only when used in Canada.



Panasonic Corporation of North America

Two Riverfront Plaza, Newark, NJ 07102 www.panasonic.com

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3 www.panasonic.com
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