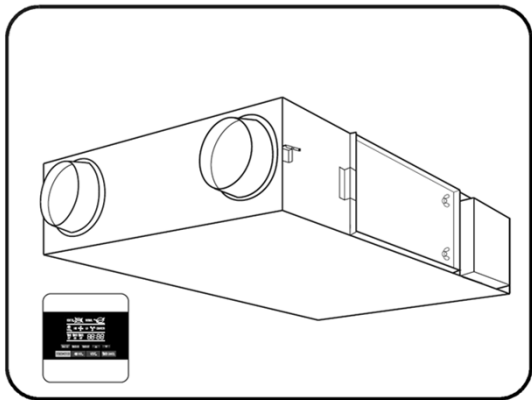


## Maintenance Manual For ERV



### Applicable model:

**FY-250ZDY8R**

**FY-350ZDY8R**

**FY-500ZDY8R**

**FY-800ZDY8R**

**FY-01KZDY8R**

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# SPECIFICATIONS

Item	Model No. FY-250ZDY8R					
Power Source	220-240V~ 50Hz					
Ventilation Mode	Heat Exchange Ventilation			Normal Ventilation		
Notch	(Extra high)	High	Low	(Extra high)	High	Low
Input (W)	112-128	108-123	87-96	112-128	108-123	87-96
Air Volume (m <sup>3</sup> /h)	250	250	190	250	250	190
External Static Pressure (Pa)	105	95	45	105	95	45
Noise (dB)	30.0-31.5	29.5-30.5	23.5-26.5	30.0-31.5	29.5-30.5	23.5-26.5
Temperature Exchange Efficiency(%)	75	75	77	—	—	—
Dimensions(mm)	Width 882 ×Depth 599×Height 270					
Weight (kg)	29					

Item	Model No. FY-350ZDY8R					
Power Source	220-240V~ 50Hz					
Ventilation Mode	Heat Exchange Ventilation			Normal Ventilation		
Notch	(Extra high)	High	Low	(Extra high)	High	Low
Input (W)	182-190	178-185	175-168	182-190	178-185	175-168
Air Volume (m <sup>3</sup> /h)	350	350	240	350	350	240
External Static Pressure (Pa)	140	60	45	140	60	45
Noise (dB)	32.5-33.0	30.5-31.0	22.5-25.5	32.5-33.0	30.5-31.0	22.5-25.5
Temperature Exchange Efficiency(%)	75	75	78	—	—	—
Dimensions(mm)	Width 1050 ×Depth 804×Height 317					
Weight (kg)	49					

Item	Model No. FY-500ZDY8R					
Power Source	220-240V~ 50Hz					
Ventilation Mode	Heat Exchange Ventilation			Normal Ventilation		
Notch	(Extra high)	High	Low	(Extra high)	High	Low
Input (W)	263-289	204-225	165-185	263-289	204-225	165-185
Air Volume (m <sup>3</sup> /h)	500	500	440	500	500	440
External Static Pressure (Pa)	120	60	35	120	60	35
Noise (dB)	36.5-37.5	34.5-35.5	31.0-32.5	37.5-38.5	37.0-38.0	31.0-32.5
Temperature Exchange Efficiency(%)	75	75	76	—	—	—
Dimensions(mm)	Width 1090 ×Depth 904×Height 317					
Weight (kg)	57					

# SPECIFICATIONS

Item	Model No. FY-800ZDY8R					
Power Source	220-240V~ 50Hz					
Ventilation Mode	Heat Exchange Ventilation			Normal Ventilation		
Notch	(Extra high)	High	Low	(Extra high)	High	Low
Input (W)	387-418	360-378	293-295	387-418	360-378	293-295
Air Volume (m <sup>3</sup> /h)	800	800	630	800	800	630
External Static Pressure (Pa)	140	110	55	140	110	55
Noise (dB)	37.0-37.5	36.5-37.0	33.5-34.5	37.0-37.5	36.5-37.0	33.5-34.5
Temperature Exchange Efficiency(%)	75	75	76	—	—	—
Dimensions(mm)	Width 1322 ×Depth 884×Height 388					
Weight (kg)	71					

Item	Model No. FY-01KZDY8R					
Power Source	220-240V~ 50Hz					
Ventilation Mode	Heat Exchange Ventilation			Normal Ventilation		
Notch	(Extra high)	High	Low	(Extra high)	High	Low
Input (W)	437-464	416-432	301-311	437-464	416-432	301-311
Air Volume (m <sup>3</sup> /h)	1000	1000	700	1000	1000	700
External Static Pressure (Pa)	105	80	75	105	80	75
Noise (dB)	37.5-38.5	37.0-37.5	33.5-34.5	39.5-40.5	39.0-39.5	35.5-36.5
Temperature Exchange Efficiency(%)	75	75	79	—	—	—
Dimensions(mm)	Width 1322 ×Depth 1134×Height 388					
Weight (kg)	83					

(Note) The ratings mentioned above shows the values under the external static pressure.

(Only the noise level shows the value under the external static pressure: 0Pa)









Noise Level shall be measured 1.5 m below the center of the unit. (It shall be measured at the acoustic room.)

# Cautions on Safety <Never Fail to Observe>

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 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.
- Make sure to disconnect the power plug before cleaning the product.

## Cautions for Maintenance

It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

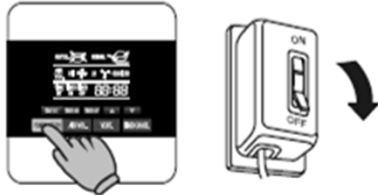
 <b>WARNING</b>	 <b>CAUTION</b>		
<ul style="list-style-type: none"> <li>■ When the system is checked and the power cable undergoes maintenance, stop the operation, and switch the exclusive circuit breaker "OFF".</li> </ul>   <p>The internal fan is revolving at high speeds and can cause serious injury. And when using a stepladder, etc., make sure to fix it properly.</p>	<ul style="list-style-type: none"> <li>■ Don't use benzene or metal brush when cleaning the filter and heat exchange element.</li> </ul>   <p>Otherwise, the unit will get unfit for use.</p>	<ul style="list-style-type: none"> <li>■ The filter should be cleaned regularly.</li> </ul>  <p>Dust or dirt building-up on it can lead to a lack of oxygen in the room.</p>	<ul style="list-style-type: none"> <li>■ Use gloves when cleaning the filter or heat exchange element.</li> </ul>  <p>Doing so will reduce any possibility of injury.</p>

# Model Installation

In order to prevent the reduced effectiveness of your Energy Recovery Ventilator, be sure to clean dirt and dust from the filter and Heat Exchange Element at regular intervals.

## Caution

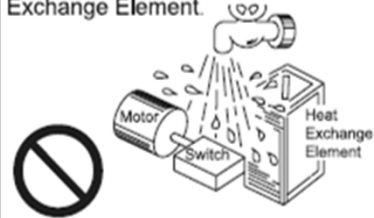
Be sure to turn the power off, and to switch the exclusive breaker off before carrying out maintenance activities.



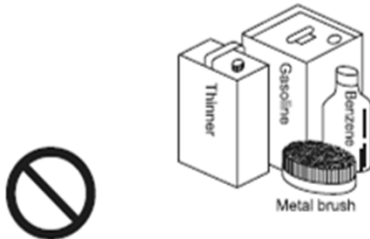
Do not immerse the filter or other resin components in water 60°C or above.



Never use water on the motor, the Energy Recovery Ventilator Remocon, or the Heat Exchange Element.



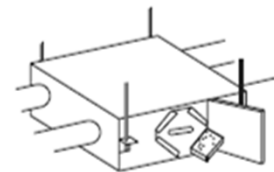
Do not use the following items for cleaning.



Avoid using heat to dry the filter, as it may cause changes in shape or quality.



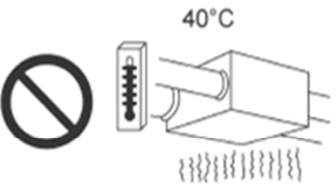
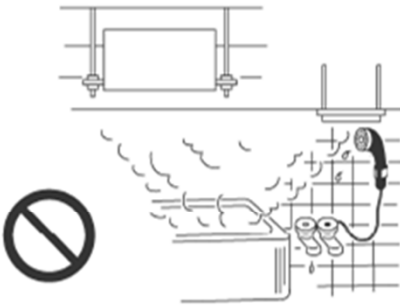
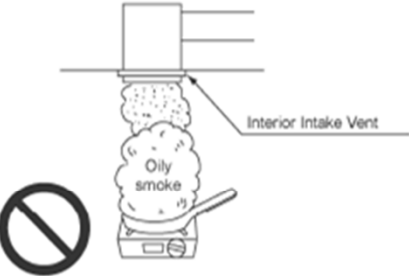
Always be sure to use a filter. Failure to do so may cause dust and dirt to build up on the heat exchange element, lowering its efficiency and rendering it inoperable.



# Specific Caution Items

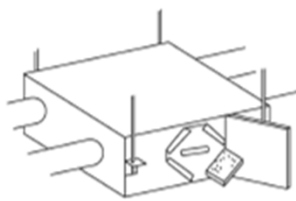


## Checking Location of Installation

This Energy Recovery Ventilators have been designed especially for use in offices, conference rooms, etc. Please check to ensure that neither the main unit nor the inlet-outlet grill are installed in any of the following locations.

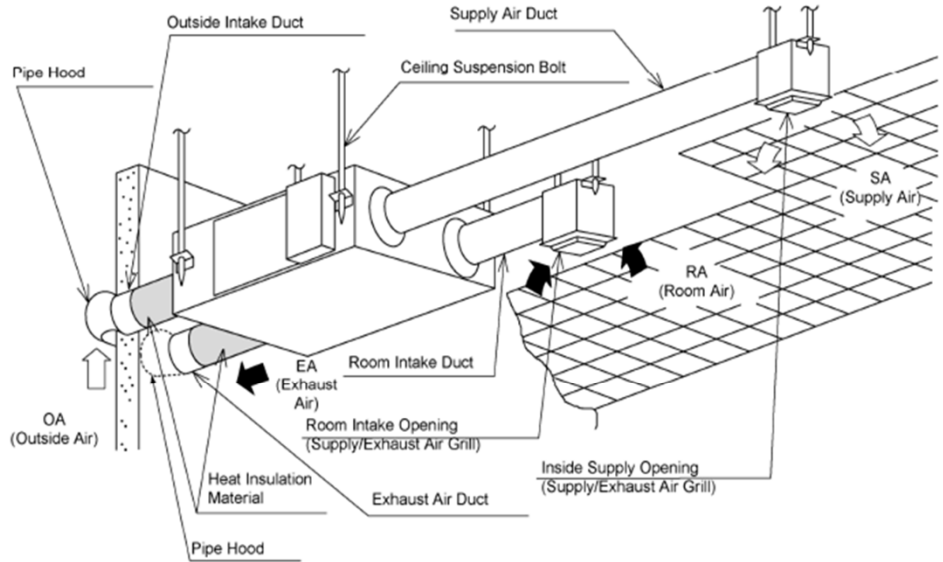
<p>Locations exposed to high temperatures or direct flame. Avoid installing the Energy Recovery Ventilators or the inlet-outlet grill in locations which reach temperatures of 40°C or above. Usage under high temperature conditions may cause distortion of the filter or Heat Exchange Element or motor burn-out.</p> 	<p>Locations with high humidity. Do not install in high humidity locations such as bathrooms. Doing so may cause a breakdown of the unit or an electric shock.</p> 	<p>Locations with large amounts of oily smoke, such as food preparation areas. The unit will become inoperable if the filter or Heat Exchange Element become clogged with oil.</p> 
<p>Make sure that Inspection Opening is provided so that filter and Heat Exchange Element maintenance and periodic spot checks of the unit can be easily carried out. (Refer to the Model Installation for its space)</p>	<p>Do not install the unit in locations such as machinery or chemical plants where it will be exposed to noxious gases containing acids, alkali, organic solvents, paint fumes, etc., to gases containing corrosive ingredients, or where dust or oil mist will be produced.</p>	

If there are any problems concerning the location or installation of the unit, please consult either store from which it was purchased or the agent who installed it.

## When Using

<p>Always be sure to use a filter. Failure to do so may cause dust and dirt to build up on the heat exchange element, lowering its efficiency and rendering it inoperable.</p> 	<p>Operate the Energy Recovery Ventilator Remocon with certainty. In particular, suddenly turning the switch on and off will not only cause improper operation of the unit, but will also affect the relay inside the switch, and may damage it.</p> 	<p>Never operate the on "Normal ventilation" during the winter when the room is being heated, as this will cause condensation to form inside the unit and in the inlet-outlet vent.</p> 
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# Model Installation



Note that when installing a unit upside down, its printed indication is in a reversed position.

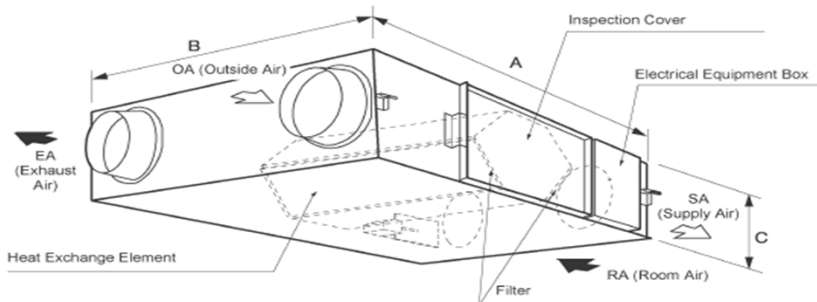
## Method of Use

For detail, please refer to the "Energy Recovery Ventilator Remocon" manual.

## Name of Each Part

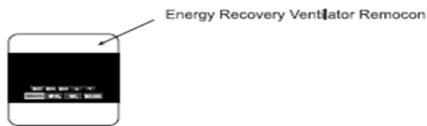
[Model No.] FY-250ZDY8R  
FY-350ZDY8R  
FY-500ZDY8R

Unit: mm



Model No.	A	B	C
FY-250ZDY8R	882	599	270
FY-350ZDY8R	1050	804	317
FY-500ZDY8R	1090	904	317
FY-800ZDY8R	1322	884	388
FY-01KZDY8R	1322	1134	388

Note: Dimensions of Ceiling Suspension Fixtures are not included.



[Model No.] FY-800ZDY8R  
FY-01KZDY8R

