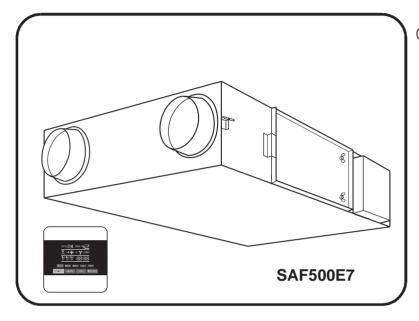
USER'S MANUAL

VENTILATION AND HEAT EXCHANGE UNIT (ENERGY RECOVERY VENTILATOR)



MANUEL DE L'UTILISATEUR

CONDITIONNEUR D'AIR MONOBLOC ENCHASTRE A GAINES (VENTILATEUR D'ÉCHANGE DE CHALEUR)

ANWENDERHANDBUCH

LUFT-LUFT-WÂRMETAUSCHER (ENERGIEGEWINNUNGS-VENTILATOR)

ISTRUZIONI PER L'USO

SCAMBIATORE DI CALORE AIR-TO-AIR (VENTILATORE A RECUPERO ENERGETICO)

Model No. N° de modèle Modell-Nr. Modello N. Modelo N.°

SAF150E7 SAF250E7 SAF350E7 SAF500E7 SAF800E7 SAF1000E7

MANUAL DEL PROPIETARIO

UNIDAD INTERCAMBIADORA DE CALOR DE AIRE A AIRE (VENTILADOR CON RECUPERACIÓN DE ENERGÍA)

Installation manual is attached separately. Le manuel d'installation est joint séparément. Installationsanleitung ist gesondert beigelegt. Il manuale di installazione è allegato separatamente. El Manual de instalación se adjunta por separado.

This air-conditioner complies with following directive.

Machinery 2006/42/EC Low Voltage 2014/35/EU EMC 2014/30/EU RoHS 2011/65/EU Ecodesign 2009/125/EC Energy labelling 2010/30/EU

CE marking is applicable to the area of 50 Hz power supply.

Ce climatiseur est conforme aux directives suivantes. Machines 2006/42/CE

Basse tension 2014/35/UE CEM 2014/30/UE RoHS 2011/65/UE

Écoconception 2009/125/CE

Label énergétique 2010/30/UE La marque CE s'applique aux régions alimentées en courant de 50 Hz.

Diese Klimaanlage erfüllt die folgende Richtlinie. Maschinen 2006/42/EC Niederspannung 2014/35/EU EMV 2014/30/EU RoHS 2011/65/EU Ökodesign 2009/125/EC Energiekennzeichnung 2010/30/EU Die CE-Marke gilt für Bereiche mit einer Netzstromversorgung von 50 Hz. Questo condizionatore d'aria è conforme alla seguente direttiva. Macchinario 2006/42/CE Bassa tensione 2014/35/UE

EMC 2014/30/UE RoHS 2011/65/UE

Ecodesign 2009/125/CE

Etichettatura energetica 2010/30/UE

Il marchio CE è applicabile alla fascia di alimentazione 50 Hz.

Este aire acondicionado cumple con la siguiente directiva. Máquinas 2006/42/CE

Baja tensión 2014/35/UE

EMC 2014/30/UE RoHS 2011/65/UE

Ecodiseño 2009/125/CE

Etiquetado energético 2010/30/UE

La indicación CE sólo corresponde al área de suministro eléctrico de 50 Hz.

PCH012A010

Thank you very much for having purchased our "Energy Recovery Ventilator". We hope you read through this owner's manual with care so that you can use the unit correctly. After reading it, please keep it so you can read it whenever necessary.

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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 involves.
- ■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.

Described below are the way we are gaining your attention to what you are supposed to observe to prevent dangers to the users or other people as well as loss to the property.

■ The degrees of danger or damage that is likely to occur due to the wrong use ignoring the indications are categorized for explanation as marked below.

DANGEROUS	The column with this mark shows "Impending Danger of Death or Serious Injury".
WARNING	The column with this mark shows "Conceivable Threat of Death or Serious Injury".
CAUTION	The column with this mark shows "Likelihood of Damage or Loss to Materials only".

Kinds of the items to be observed are categorized for clarification with the following pictorial symbols. (The marks described below are samples.)



This pictorial indication shows "Prohibited".



This pictorial indication shows "Forced Execution".

Cautions for Operation



DANGEROUS

Do not use as an air circulators for open-type burners (heaters).





When gas or oil stoves are used in the home, separate equipment for circulating the air should be used.

When any abnormal condition (scorching smell or others) is found, stop the operation immediately and switch the exclusive circuit breaker "OFF".





If you continue the operation without removing the cause, it could cause an electric shock or a fire.

When the system needs a repair, consult your dealer.

WARNING

Don't push a finger or a stick into the air inlet or the outlet.



A fan with a high rpm will injure you.



room by opening windows. If operation were to be attempted in such a situation, sparking at

> electrical contact points could cause an explosion.

If there is a combustible gas leakage

from other appliances, ventilate the

Modification of the system is strictly



prohibited.

Disassembly Prohibited

Improper practice of repair could cause a water leakage, an electric shock or a fire.

When the system needs a repair, consult your dealer.

Netting or something similar should be provided at the external air intake opening to prevent birds etc. interfering with the unit.



Nests or other foreign objects should be removed. That could lead to a lack of oxygen in the room.

If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.





Cautions on Safety (Never Fail to Observe

Cautions for Operation

CAUTION

Combustion apparatus should not be

placed allowing a direct exposure to

wind of Energy Recovery Ventilators.

It is strictly prohibited to place a container of combustible gas or liquid near Energy Recovery Ventilators or to spray it directly with the gas or liquid.

It could cause a fire.



plants.

Incomplete combustion could occur on the apparatus.

Do not wash Energy Recovery Ventilators with water.



It could cause an electric

water

Don't blow directly towards animals or

Do not handle switches with a wet hand.



with wet hands

It could cause an electric shock.

If Energy Recovery Ventilators are not

used for a long period of time, switch

the exclusive circuit breaker "OFF" for

Do not use outside the rated voltage.



It could cause a fire or an electric shock.

Prohibited

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.



Likely to cause bad effect on animals and plants.

Don't put a container of water on Energy Recovery Ventilators.



When water spills, it is likely to enter inside the unit and degrade electric insulation, possibly resulting in an electric shock.



safety reasons.



If the power is left on, any build-up of dust could cause a heat generation or a fire.

Children shall not play with the



appliance. Cleaning and user maintenance shall not be made by children without supervision.

Cautions for Installation



CAUTION

The system should never be used for any other purposes than intended such as for preservation of foods, flora and fauna, precision devices or work of art.







It could cause deterioration of foods or other problems.

Don't incline Energy Recovery Ventilators when removing the unit



Otherwise, water remaining inside is likely to drop and wet the furniture or other property.

Ask the sales office or the engineering shop to perform the work.

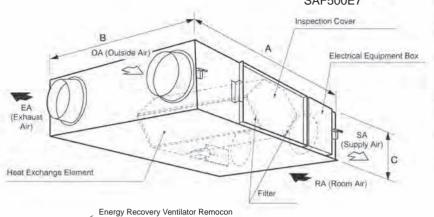
Features

Main Features

- 1. Energy saving ventilation
 - Thanks to efficient recovery of thermal energy lost during Ventilation (load incurred by outside air), you can save an air-conditioning fee.
- 2. Facility saving
 - Thanks to a drastic reduction of load incurred by outside air, you can make air-conditioners more compact in parallel with the recovery of thermal energy.
- 3. Humidity adjusting effect
 - In a cooling mode, a highly humid open-air is brought near to a dehumidified room atmosphere and then supplied. In a heating mode, a room humidity is transferred to the dry outside air and then supplied.
- 4. Comfortable and consistent ventilation
 - Ventilation is available with least possible fluctuation of a room temperature. Since exhaust and air intake are performed simultaneously, a stable ventilation is possible even in a highly airtight room.
- 5. Sound shield effect
 - The ducts of the unit and the heat exchange element are characteristic of sound shield effect. Thus, it prevents an outside noise from coming in the unit and also sound inside the unit from going out, so that the office and store environment can be preserved

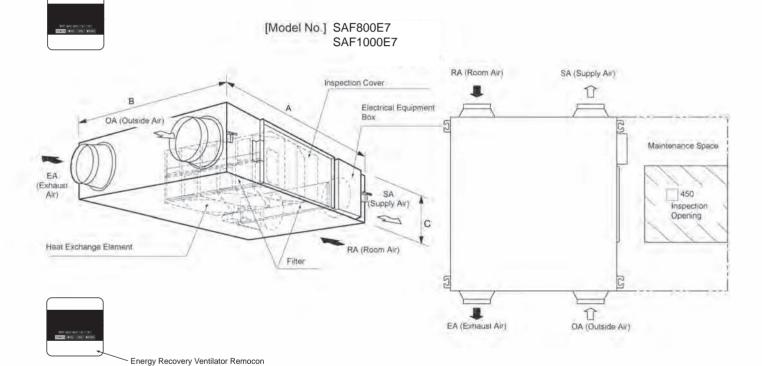
Name of Each Part

[Model No.] SAF150E7 SAF250E7 SAF350E7 SAF500E7



			Unit: mm
Model No.	Α	В	С
SAF150E7	970	467	270
SAF250E7	882	599	270
SAF350E7	1050	804	317
SAF500E7	1090	904	317
SAF800E7	1322	884	388
SAF1000E7	1322	1134	388

Note: Dimensions of Ceiling Suspension Fixtures are not included.



Specific Caution Items

Checking Location of Installation

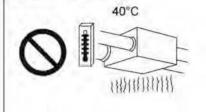
This Energy Recovery Ventilators have been designed especially for use in offices, conference rooms, etc.

Please check to ensure that neither the main unit nor the inlet-outlet grill are installed in any of the following locations.

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.

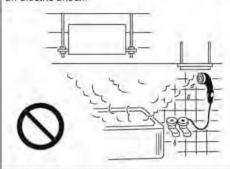
Usage under high temperature conditions may cause distortion of the filter or Heat Exchange Element or motor burn-out.



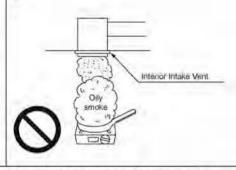
Locations with high humidity.

Do not install in high humidity locations such as bathrooms.

Doing so may cause a breakdown of the unit or an electric shock.



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



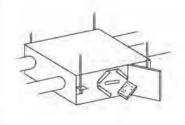
Make sure that Inspection Opening is provided so that filter and Heat Exchange Element maintenance and periodic spot checks of the unit can be easily carried out. (Refer to the Model Installation for its space) Do not install the unit in locations such as machinery or chemical plants where it will be 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.

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

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.



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.

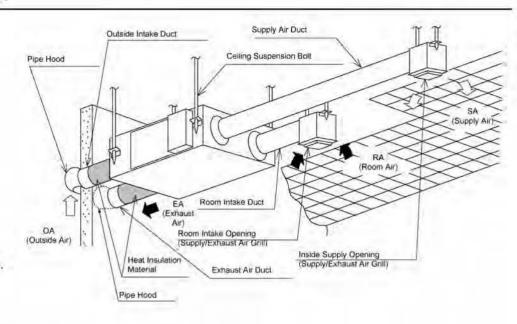


Never operate the on "Normal ventilation" during the winter when the room is being heated, as this will cause condensation to form inside the unit and in the inlet-outlet vent.





Model Installation



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

Method of Use

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

After-sales Service

■ Request for Spot Checks

To ensure safe, correct usage, we suggest that you consider a maintenance contract. For details, inquire at the store where you bought your unit, or at the agent which installed it.

■ If You Think It's Broken

Examine the unit as shown in the table below, and if you find any irregularities, shut it off immediately and contact the store where you bought your unit or the agent who installed it to request servicing (or consultation).

Symptom	Where to look
 No activity, even when the switch is on. No air comes out. 	 Is the fuse blown or the breaker tripped? Is the power out? Check whether or not there is dust on the filters and the Heat Exchange Element. (Clean it according to the Maintenance Manual.)

DaVTZ} TReZ`_d

Item Model No.		SAF150E7					
Power Source		220-240V~ 50Hz					
Ventilation Mode	Heat E	xchange Ventila	ation	No	rmal Ventilation	on	
Notch	(Extra high)	High	Low	(Extra high)	High	Low	
Input (W)	97-114	92-107	69-77	97-114	92-107	69-77	
Air Volume (m³/h)	150	150	120	150	150	120	
External Static Pressure (Pa)	80	70	25	80	70	25	
Noise (dB)	28.5-29.0	28.0-29.0	19.5-21.5	28.5-29.0	28.0-29.0	19.5-21.5	
Temperature Exchange Effiency(%)	75	75	77	_	_	_	
Dimensions(mm)	Width 970 x Depth 467 x Height 270						
Weight (kg)		25					

Item Model No.		SAF250E7					
Power Source		220-240V~ 50Hz					
Ventilation Mode	Heat E	xchange Ventila	ation	No	rmal Ventilation	on	
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 (m³/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 Effiency(%)	75	75	77	_	_	_	
Dimensions(mm)	Width 882 × Depth 599 × Height 270						
Weight (kg)		29					

Item Model No.	SAF350E7						
Power Source		220-240V~ 50Hz					
Ventilation Mode	Heat E	xchange Ventila	ation	No	rmal Ventilation	on	
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 (m³/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 Effiency(%)	75	75	78	_	_	_	
Dimensions(mm)	Width 1050 × Depth 804 × Height 317						
Weight (kg)			49)			

Item Model No.		SAF500E7					
Power Source			220-240V	~ 50Hz			
Ventilation Mode	Heat E	xchange Ventila	ation	No	rmal Ventilation	on	
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 (m³/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 Effiency(%)	75	75	76	_	_	_	
Dimensions(mm)	Width 1090 x Depth 904 x Height 317						
Weight (kg)		57					

Item Model No.	SAF800E7					
Power Source			220-240V	~ 50Hz		
Ventilation Mode	Heat E	xchange Ventila	ation	No	rmal Ventilation	on
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 (m³/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 Effiency(%)	75	75	76	-	_	_
Dimensions(mm)	Width 1322 x Depth 884 x Height 388					
Weight (kg)		71				

Item Model No.	SAF1000E7						
Power Source			220-240V	~ 50Hz			
Ventilation Mode	Heat E	xchange Ventila	ation	No	rmal Ventilation	on	
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 (m³/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 Effiency(%)	75	75 75 79 — —					
Dimensions(mm)	Width 1322 x Depth 1134 x 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.)

16-5 Konan 2-chome, Minato-ku, Tokyo, 108-8215, Japan

declare under our sole responsibility that the apparatus referred to in this declaration conforms with the following directives.

Description of apparatus: Heat Exchanger Unit

Model name: SAF Series

Relevant EU Directives:

Machinery Directive 2006/42/EC

Applied Standards:

EN 60335-1

Authorized representative in EU:

7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX, United Kingdom

Note: About the detail of Conformity model, see EC DECLARATION OF CONFORMITY sheet included in a package



