

When the revolutionary digital technology provides nature's coolness

Imagination *lives*



Most perfect system air conditioner

Refreshing cooling and heating all year long with the world's best efficiency that saves money and energy. Satisfaction that only Samsung's leading technologies can provide. Just the way you want your system air conditioner to be, as it is custom made for you.

SAMSUNG ELECTRONICS HOME APPLIANCE PRODUCT AWARDS

Technology can contribute to the development of a greener, cleaner world and increase quality of life. This is a philosophy we have held at Samsung for over 30 years. Ever since its establishment in 1973, Samsung Electronics has concentrated on developing environmentally friendly products and has converged increasingly sophisticated digital technology with its appliance products to attain a strong technological advantage in improving consumers' quality of living with the ultimate in convenience and style.



ERV(Energy Recovery Ventilator) System

Perfect ventilation system with charming technology, providing fresh air while saving energy all year long.



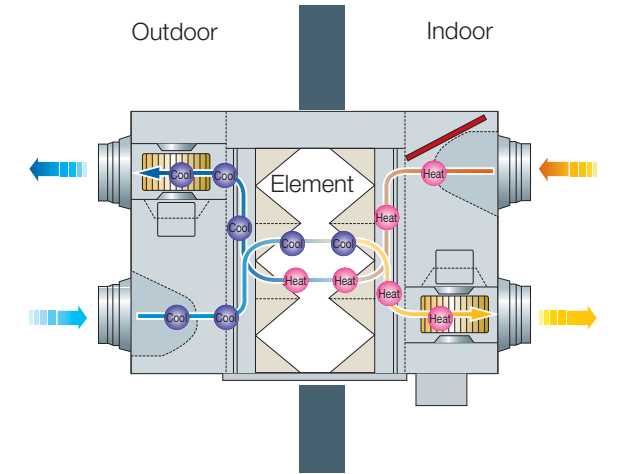
How it Works

Winter

It reduces the costs of heating ventilated air by transferring heat from the warm inside air being exhausted to the fresh (but cold) supply air.

Summer

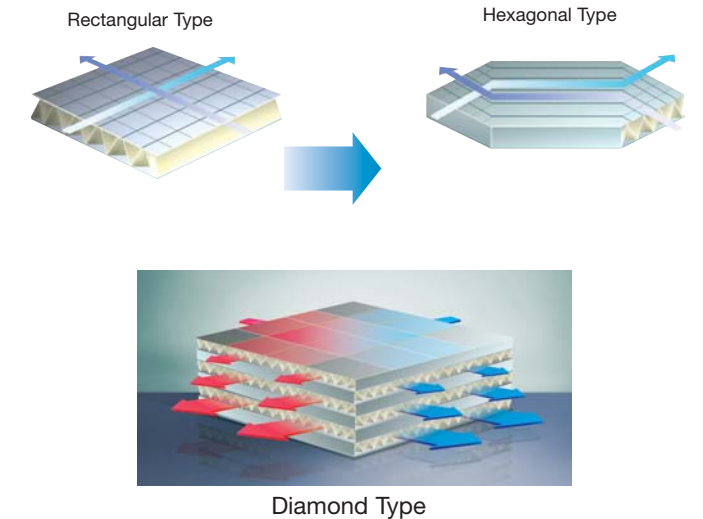
The inside air cools the warmer supply air to reduce ventilation cooling costs.



Key Technology

New Diamond Type

- Optimized Airflow Design
- High Efficiency Element
- Compact size



Automatic Refresh System (CO₂ Sensor) : Optional

- ERV is automatically operated to give fresh air into room by sensing CO₂ Level.

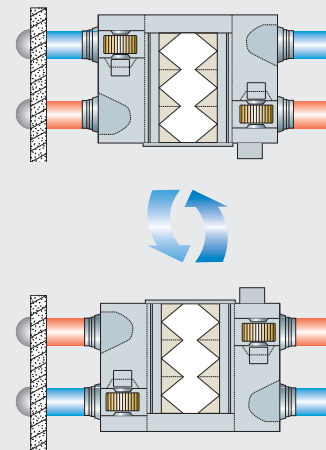
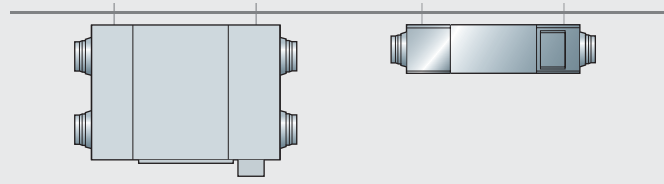
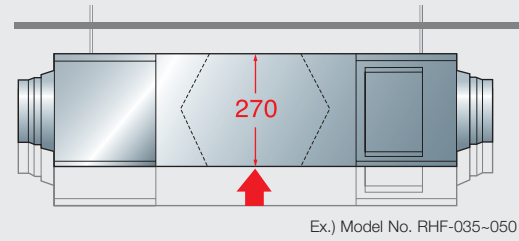
High Efficiency Motor (BLDC)

- Constant air volume by BLDC motor.

Intelligent Operating System (-15°C) Without Heater

Compact Size & Flexible Installation

- Compact and Slim in Size by High Efficiency Diamond Element.

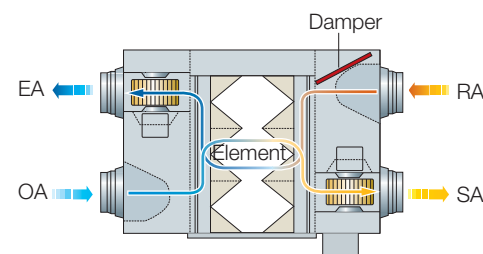


Energy Saving Operation (Auto Mode)

It automatically changes operation mode depending on temperature difference between indoor and outdoor to save energy.

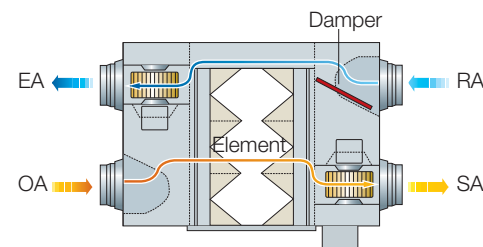
Extreme Climates (Winter & Summer)

When temperature and humidity level difference between indoor and outdoor is big, it operates as ERV.



Mild Climates (Spring & Fall)

When temperature and humidity level difference between indoor and outdoor is small, it operates as conventional ventilation fan.



Line-up



Specification | ERV System

Model		RHF025EE	RHF035EE	RHF050EE	RHF080EE	RHF100EE
Voltage	V	220~240	220~240	220~240	220~240	220~240
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Withstand Voltage	-	AC1500V, 1min	AC1500V, 1min	AC1500V, 1min	AC1500V, 1min	AC1500V, 1min
Insulation Resistance	-	30MG	30MG	30MG	30MG	30MG
Air Volume	m³/hr	250	350	500	800	1,000
External Static Pressure	Pa	110	155	165	155	155
Leakage Rate	%	10	10	10	10	10
Power Input	W	115	115	175	330	450
Current	A	0.7	0.7	1.1	2.1	2.9
Temperature Exchange	Cooling %	70	70	70	70	70
	Heating %	70	70	70	70	70
Effective Enthalpy	Cooling %	50	50	50	50	50
	Heating %	70	70	70	70	70
Exchange Efficiency	%	70	70	70	70	70
Sound Level (Turbo/Low)	dB(A)	27/22	31/24	32/25	33/29	37/32
Dust Collection Method	-	High efficiency filter(PP)	High efficiency filter(PP)	High efficiency filter(PP)	High efficiency filter(PP)	High efficiency filter(PP)
Net Dimensions(WxHxD)	mm	600X350X660	1,012X270X1,000	1,012X270X1,000	1,220X340X1,135	1,220X340X1,135
Gross Dimensions (WxHxD)	mm	760X400X807	1,299X337X1,183	1,299X337X1,183	1,475X 440 X1,330	1,475X440X1,330
Weight (Net/Gross)	kg	25.5/30	42.5/53.5	42.5/53.5	67/75.5	67/75.5
Duct Diameter	∅,mm	150	200	200	250	250

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