

# ERV Units



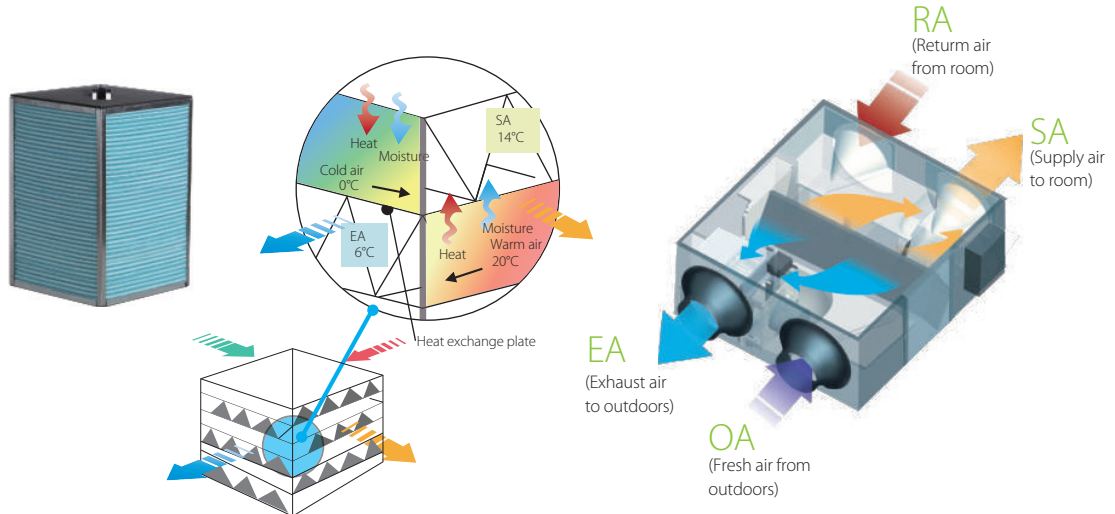
The ERV is the energy recovery process in residential and commercial HVAC System that exchange the energy contained in exhausted air of a building or condition space, using it to treat the incoming outdoor ventilation air. The heat exchanged core is made of special paper processed with chemical treatment, which could realize better temperature and humidity control of the room environment.

## Model Names

ERV-200    ERV-500  
 ERV-300    ERV-800  
 ERV-400    ERV-1000



ERV-1500  
 ERV-2000



## Multi-modes for different situation >>

### Heat Exchange Mode

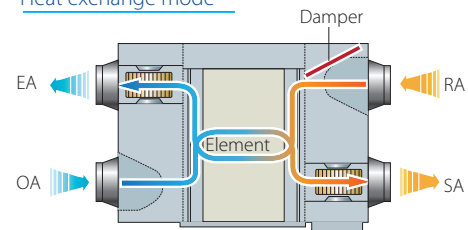
When air flow formed by the fans goes through the heat exchanged core in cross way, due to temperature difference between two channels of the core, thermal transmission happens naturally.

In summer days, high temperature outdoor air gets cooled by indoor exhaust air; in winter, low temperature outdoor air gets heated by indoor exhaust air. So the energy contained in exhaust air can be reclaimed and energy efficiency gets improved.

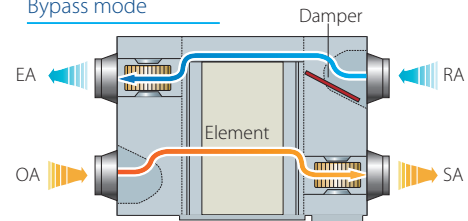
### Bypass Mode

In mild climate areas or seasons, when temperature and humidity level difference between indoor and outdoor is small, the unit works as conventional ventilation fan. Both supply fan and exhaust fan works at the same speed (Hi/mid/low/auto).

#### Heat exchange mode



#### Bypass mode



# ERV Units

## Air Supply Mode

It is one kind of bypass mode with air supply fan speed higher than exhaust fan speed. It can be used in mild climate area where large amount fresh air is needed.

## Exhaust Air Mode

It is also one kind of bypass mode with exhaust fan speed higher than air supply fan speed. It can be used in mild climate area where large amount exhaust air needs to be expelled.

## Auto Mode

The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoor and indoor temperature. Both the two fans work at low speed.

## Specification

Unit Model				ERV-200	ERV-300	ERV-400	ERV-500
<b>Power Supply</b>		<b>V,Hz,Ph</b>		<b>220-240 / 50 / 1</b>			
Cooling	Temperature	High / Mid	%	55	55	55	55
	Exchange Effy.	Low	%	60	60	60	60
	Enthalpy	High / Mid	%	50	50	50	50
	Exchange Effy.	Low	%	55	55	55	55
Heating	Temperature	High / Mid	%	60	60	60	65
	Exchange Effy.	Low	%	65	65	65	70
	Enthalpy	High / Mid	%	55	55	60	60
	Exchange Effy.	Low	%	60	60	65	65
Fan	Type			Centrifugal Fan			
	Air Flow Rate	H/M/L	m <sup>3</sup> /h	200/200/150	300/300/225	400/400/300	500/500/375
	ESP	H/M/L	Pa	75/58/35	75/60/40	80/65/43	80/68/45
	Motor Output			20	40	80	120
Others	Heat Exchange Element Material			Specially Processed Non-Flamable Paper			
	Net Dimension (WxHxD)	mm±5		866x264x655	944x270x722	944x270x927	1038x270x1026
	Packing Dimension	mm±5		930x445x730	1010x450x800	1010x450x1010	1120x452x1120
	Weight (Net/ Gross)	Kg		23/40	26/44	31/52	41/64

Unit Model				ERV-800	ERV-1000	ERV-1500	ERV-2000
<b>Power Supply</b>		<b>V,Hz,Ph</b>		<b>220-240 / 50 / 1</b>	<b>220-240 / 50 / 1</b>	<b>380-415 / 50 / 3</b>	<b>380-415 / 50 / 3</b>
Cooling	Temperature	High / Mid	%	55	55	55	55
	Exchange Effy.	Low	%	60	60	/	/
	Enthalpy	High / Mid	%	50	50	50	50
	Exchange Effy.	Low	%	55	55	/	/
Heating	Temperature	High / Mid	%	65	65	65	65
	Exchange Effy.	Low	%	70	70	/	/
	Enthalpy	High / Mid	%	60	60	60	60
	Exchange Effy.	Low	%	65	65	/	/
Fan	Type			Centrifugal Fan			
	Air Flow Rate	H/M/L	m <sup>3</sup> /h	800/800/600	1000/1000/750	1500	1500
	ESP	H/M/L	Pa	100/82/54	100/85/58	160	170
	Motor Output			360	360	450	450
Others	Heat Exchange Element Material			Specially Processed Non-Flamable Paper			
	Net Dimension (WxHxD)	mm±5		1286x388x1006	1286x388x1256	1600x540x1270	1650x540x1470
	Packing Dimension	mm±5		1380x573x1100	1390x580x1350	1680x720x1350	1760x720x1580
	Weight (Net/ Gross)	Kg		68/88	79/110	163/224	182/247