



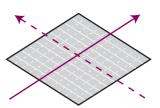
Energy Recovery Ventilator

Suppresses indoor temperature changes while providing fresh air

Energy efficiency and ecology

Energy consumption is dramatically reduced by using a counter-flow heatexchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings.

HEAT EXCHANGER CHARACTERISTICS



20% energy savings

Former (cross-flow element)

New (counter-flow element)

Heat exchange ventilation and normal ventilation

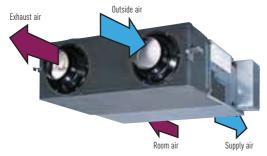
Heat exchange ventilation

When a room is cooled or heated, the exhausted cooling / heating energy is recovered by heat-exchange ventilation.

Normal ventilation

This is used in the spring and autumn, when rooms are not cooled or heated, that is, when there is little difference between the indoor and outdoor air conditions. In addition, at night during the hot season, when the outside air temperature drops the outside air is drawn inside without heat exchange, alleviating the load on the air conditioning equipment. The heat exchanger is made up of a membrane manufactured from a special material covered in resin for optimal heat transmission. The nylon/ polyester fibre filter offers high dust retention capacity. We have also redesigned the air ducts to obtain a long-lasting heat exchange system which does not need periodic cleaning.

ADOPTS A HIGHLY EFFICIENT COUNTER-FLOW HEAT EXCHANGE ELEMENT



Heat exchanger

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged even if the element is made thinner.

More Comfort

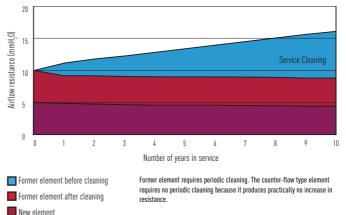
Quiet operation

Low noise operation results in noticeably quieter units. All models with capacities below 500 m³/h run at noise levels below 32 dB (High setting) and even our largest 1,000 m³/h-capacity model runs at only 37.5 dB (High setting).

Long heat-exchange element service life

Cleaning reduced due to the special material heat exchanger. The nylon/polyester fibre filter offers high dust retention capacity.

CHANGES IN AIRFLOW RESISTANCE BASED ON NUMBER OF YEARS IN SERVICE



Easy Installation and Maintenance

Slim shape and easier installation

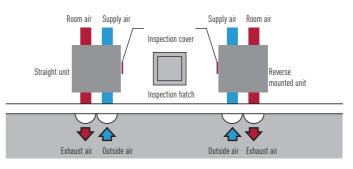
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.

270mm Height: FY-250ZDY8 // FY-350ZDY8 // FY-500ZDY8 388mm Height: FY-650ZDY8 // FY-800ZDY8 // FY-01KZDY8A

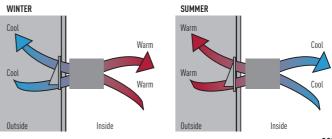
Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.

Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



Balanced Ventilation



ENERGY RECOVERY VENTILATION SYSTEM

Recovers up to 77% of the heat in the outgoing air, for an ecological and energy efficient building.













FY-250ZDY8

FY-350ZDY8

FY-500ZDY8

FY-650ZDY8

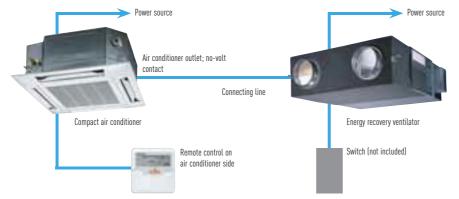
FY-800ZDY8

FY-01KZDY8A

Rated flow rate		250 m³/h			350 m³/h			500 m³/h			650 m³/h			800 m³/h			1000 m³/h		
Models		FY-250ZDY8			FY-350ZDY8			FY-500ZDY8			FY-650ZDY8			FY-800ZDY8			FY-01KZDY8A		
Power Source		220-240 V - 50 Hz			220-240 V - 50 Hz			220-240 V - 50 Hz			220-240 V - 50 Hz			220-240 V - 50 Hz			220-240 V - 50 Hz		
Heat Exchange Ventilation	on	E-High	High	Low	E-High	High	Low	E-High	High	Low									
Input	W	112-128	108-123	87-96	182-190	178-185	175-168	263-289	204-225	165-185	326-347	269-295	200-210	387-418	360-378	293-295	437-464	416-432	301-311
Air Volume	m³/h	250	250	190	350	350	240	500	500	440	650	650	460	800	800	630	1,000	1,000	700
External Static Pressure	Ра	105	95	45	140	60	45	120	60	35	65	40	40	140	110	55	105	80	75
Noise	dB	30,0-31,5	29,5-30,5	23,5-26,5	32,5-33,0	30,5-31,0	22,5-25,5	36,5-37,5	34,5-35,5	31,0-32,5	36,5-37,5	34,5-35,5	30,0-32,0	37,0-37,5	36,5-37,0	33,5-34,5	37,5-38,5	37,0-37,5	33,5-34,5
Temp. Exchange Effiency	%	75	75	77	75	75	78	75	75	76	75	75	79	75	75	76	75	75	79
Normal Ventilation		E-High	High	Low	E-High	High	Low	E-High	High	Low									
Input	W	112-128	108-123	87-96	182-190	178-185	175-168	263-289	204-225	165-185	326-347	269-295	200-210	387-418	360-378	293-295	437-464	416-432	301-311
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Temp. Exchange Effiency	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimensions (W x D x H) mm 882 x 599 x 270			1,050 x 804 x 317			1,090 x 904 x 317			1,204 x 884 x 388			1,322 x 884 x 388			1,322 x 1134 x 388				
Weight	kg 29				49			57			68			71			83		

This noise of the product is the value which was measured at the acoustic room. Actually, in the established condition, that undergo influence by the echoing of the room and so that become bigger than the display numerical value. The input, the current and the exchange efficiency are values at the time of the mentioned air volume. The noise level shall be measured 1,5m below the centre of the unit. The temperature exchange efficiency averages that of when cooling and when heating.

TYPICAL SYSTEM LINKED TO A CASSETTE TYPE AIR CONDITIONER



Use conditions

Outdoor air conditions Temperature range: -10°C – 40°C Relative humidity: 85% or less

Indoor air conditions Temperature range: -10°C – 40°C Relative humidity: 85% or less

Requirements for installation

Use is to be avoided in refrigerated chambers or other places where the temperature may undergo significant fluctuations, even when the temperature range is acceptable.



FY-250ZDY8 // FY-350ZDY8 // FY-500ZDY8 // FY-650ZDY8 // FY-800ZDY8 // FY-01KZDY8A

Technical focus

- High energy saving, up to 20%
- Counter Cross Flow technology for better efficiency
- Long life element core
- Easy installation and 20% less thickness
- Easy connection to air conditioning units
- Super quiet units

Features

HEALTHY AIR

• The filter guarantees healthier air

ENERGY EFFICIENCY AND ECOLOGY

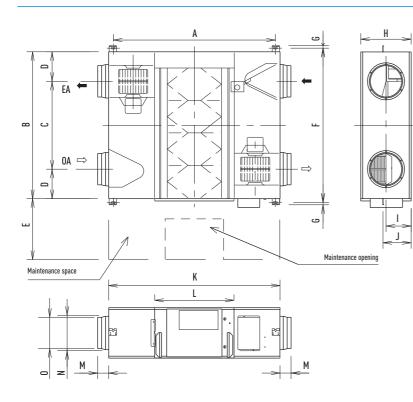
- Up to 20% energy saving in the installation
- Recovers up to 77% of the heat in the outgoing air

COMFORT

- Cleaning reduced due to the revolutionary structure of the exchanger (recommended every 6 months)
- Ideal for indoor spaces without windows

EASY INSTALLATION AND MAINTENANCE

- 6 models for easier selection
- Reduced system height (270mm and 388mm)
- Side opening for cleaning (inspection of filter, motor and other parts)
- Installation can be reversed to share an inspection opening between 2 machines
- Easy connection to the air conditioning unit (without additional elements)
- Installation in false ceilings
- Units operate at 220 240 V
- High static pressure for easier installation



	FY-250ZDY8	FY-350ZDY8	FY-500ZDY8	FY-650ZDY8	FY-800ZDY8	FY-01KZDY8A
A	810	810	890	1,132	1,250	1,250
В	599	804	904	884	884	1,134
С	315	480	500	620	428	678
D	142	162	202	132	228	228
E	600	600	600	600	600	600
F	655	860	960	940	940	1,190
G	19	19	19	19	19	19
Н	270	317	317	388	288	388
	135	145	145	194	194	194
J	159	159	159	218	218	218
K	882	882	962	1,204	1,322	1,322
L	414	414	414	560	612	612
М	95	95	107	70	85	85
N	219	219	246	210	258	258
0	144	144	194	194	242	242