

DON'T YOU WANT TO LIVE WITH CLEAR AIR?

Buildings nowadays mostly are tightly built with aluminum casing windows and rubber lining door to retain energy efficiency and limit heating or cooling loss. However, it comes at the cost of poor indoor air quality.

In order to provide a healthy living environment to you, ventilation plays an essential role.

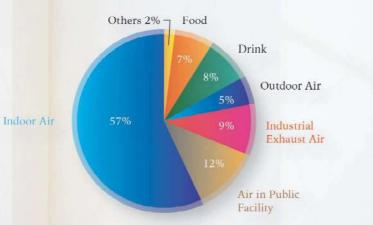


WHY INDOOR AIR QUALITY IS IMPORTANT?

You can't see it, but you take a lot into your body - AIR

Air quality in a house is an important factor for your health and comfort. In general, windows are not opened in airtight house due to using of air conditioning.

It is difficult to fulfill air exchange in a modern house, as a result, the stale indoor air becomes polluted easily.



Source: Murakami Shuzo, "Indoor Environments and Air Pollutants"

Besides "Sick House Syndrome", insufficient ventilation also affects human's health and aging of building

- · Yellow stain on wall caused by tobacco smoking
- · Allergic illnesses induced with mold and mite that are caused by moisture
- Discomfort due to smells from toilet and cooking
- Lowering of concentration due to shortage of oxygen
- · Building deterioration resulting from condensation and mold

- AIR PROBLEMS IN HOME

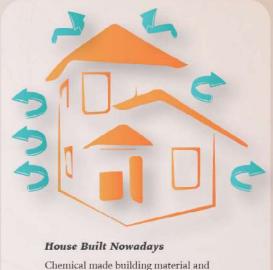
Home Airtightness

Homes designed and built in recent years are more airtight and energy efficient than in the past. To obtain an airtight design, house wraps, newly designed windows and doors, sealing caulks and other insulating materials are used to create a seal for optimum energy efficiency. It results the cost saving to heat and air-condition at home, but pollutants retained in airtight buildings can be hazardous to our health and can jeopardize structural integrity.



House Built in Past

Natural and wooden building material are adopted that allow air exchange between interior and exterior



sashes are employed to ensure high

airtightness

Issues Raised with Home Airtightness?

Highly airtight house restricts air ingress from outside that can closely retain the expected indoor temperature for energy saving. However, airtightness also brings out the problem of indoor air quality (IAQ) which may be a cause of sick house syndrome.



CONVENIENT

3 easy and convenient innovations

PANASONIC INNOVATIVE

SLIM DESIGN



air will circulate around the whole house. As ventilation with energy recovery ventilator, energy loss of air conditioning (including sensible heat and latent heat) is minimized. This provides a highly efficient, energy saving ventilated environment.

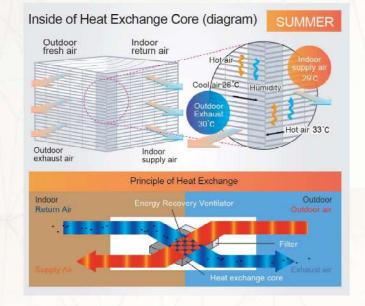
With 24-hour continuous ventilation, fresh

Example: FY-E15PM1 / FY-E15DZ1

Enjoy Double Comfortwith Interlocking Air Conditioning

The newly developed energy recovery ventilator can interlock air conditioning. It allows you to enjoy both fresh air and comfortable temperature.





Convenient Installation and Maintenance

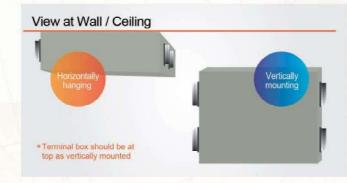
Side maintenance opening is only 450 x 450mm, that saves installation space and allows easy inspection for filter, element, as well as terminal box.



Multiple ways of installation horizontally hanging or vertically mounting

· PM2.5 Series / Slim Series

The new energy recovery ventilator of the heat exchange device can be installed onto the ceiling or wall, so from now on installation and maintenance will not be a problem.



· Standard Series

The units can be mounted in reverse position.

REFRESH

Whole house filled with fresh air

24-Hour Continuous

With 24-hour continuous ventilation, stale air is exhausted while fresh air is drawn into the house. Circulation of fresh air throughout the whole house is maintained.

Structure Diagram

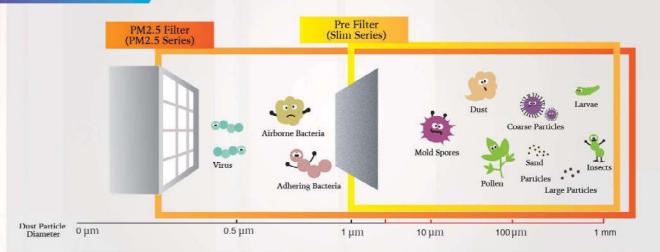


PM2.5 Filter
(PM2.5 Series)
Filter PM2.5 particles up to 95.4%
* Recommended to change filter 2-4 months and clean every month

Pre Filter
(Slim Series)
Filter outdoor large dust particles and insects
* Recommended to change filter every year and clean every month

Pre Filter

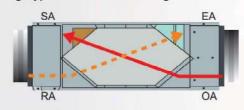
Example: Slim Series



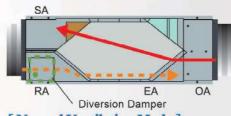
Bypass Ventilation for Speedy Exhaust of Polluted Air

Diversion damper is equipped for Bypass Ventilation. Return (room) airflow (RA) is greater than supply airflow (SA) allowing speedy exhaust of indoor polluted air.

By using bypass ventilation during season change, it will be more comfortable and energy saving.



[Heat Exchange Mode]



[Normal Ventilation Mode]

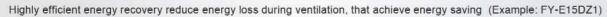
■ Bypass ventilation

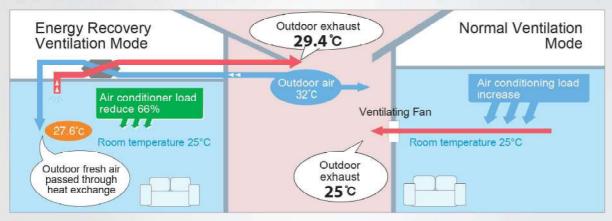
* In case outdoor air is highly polluted, it is not recommended to use bypass ventilation. It may cause negative pressure that polluted outdoor air may ingress into the houses through the gaps at the doors and windows.

COST EFFICIENT

Considerate Design for Extra Saving

Merit of Energy Recovery Ventilation

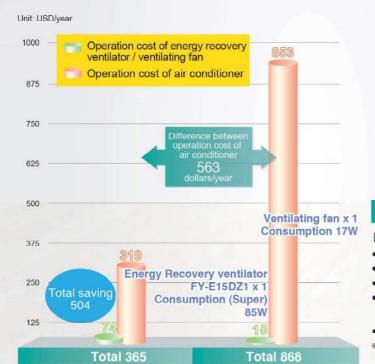




Summer

Utilize energy of indoor return cool air to cool down outdoor air before intake to indoor, indoor cool loss is reduced

Long Term Cost Comparison Long term cost comparison for Panasonic ventilation fan and energy recovery ventilator



Based on the following condition

[Test condition]

Location: Thailand

- Indoor : Cooling 25°C (RH50%)
- Outdoor: 32°C (RH72%)
- Ventilation air volume: 100m2 x 3m x 0.5 times/h = 150m3/h
- Operation Time
- Air Conditioner: 12 hrs/day x 365 days = 4380 hrs Ventilation: 24 hrs/day x 365 days = 8760 hrs
- · Electricity charge: USD0.1/KW.h
- % Since energy recovery ventilator can reduce ventilation load, cooling and heating load of air conditioner are decreased subsequently. Thus the initial equipment cost for air conditioner can be possibly reduced.

PRODUCT LINEUP

PM2.5 SERIES



Feature

- Counter-flow heat-exchange element used for reduced noise and more compact and slim
- PM2.5 filter can capture PM2.5 particles effectively to ensure clean air intake
- All maintenance can be performed through a single inspection hole
- Equipped with a Extra- High setting
- Bypass ventilation available for speedy exhaust
- Horizontal or vertical mounting available
- Interlock with air conditioning available

SLIM SERIES

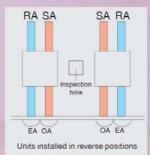


Feature

- Counter-flow heat-exchange element used for reduced noise and more compact and slim body shape
- All maintenance can be performed through a single inspection hole
- Equipped with a Extra- High setting
- Bypass ventilation available for speedy exhaust
- Horizontal or vertical mounting available
- Interlock with air conditioning available

STANDARD SERIES





Feature

- All maintenance can be performed through a single inspection hole
- Straight air supply/exhaust system used for easier installation
- Each unit can be mounted in reverse position
- Equipped with a Extra-High setting
- Can incorporate a medium-performance filter (optional, installed at site)
- Bypass ventilation available for speedy exhaust

PRODUCT SPECIFICATION



FY-E15PM1 FY-E15PM1L

■ Maintenance Dimension

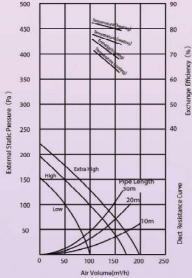
It must be set the maintenance cover, and clean the filter and heat exchange core as specified in instruction.

● Product Dimension (Unit: mm) • FY-E15PM1

- *1.Dimension of filter maintenance cover.
 *2.Dimension of maintenance cover.
 *3.Suspension point dimension.

No.	Part name	Qty	Material
1	Frame	1	Galvanized Steel Sheet
2	Adapter	4	ABS
3	Impeller	2	PP
4	Fan Motor	1	
5	Heat Exchange Core	1	Special Paper and Resin
6	Outdoor Filter	1	Non-woven Fabric
7	Return Filter	1	
8	Ceiling Suspension	4	Galvanized Steel sheet
9	Switch Box	1	Galvanized Steel sheet

■ Performance



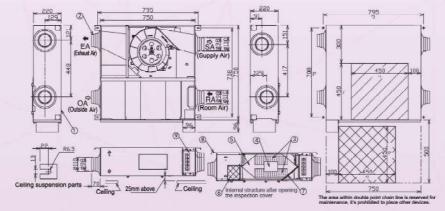
When friction coefficient of pipe (duct) $\lambda \text{=-}0.02$

- 1. Duct size (Nominal Diameter):Ø100.
- 2. The above dimensions do not include the thickness of the insulation material in the unit.

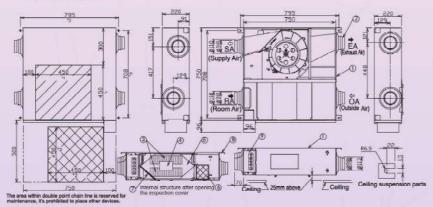
■ Be careful of dew and frost

- 1. The two outside ducts must be insulated to prevent condensation. (Material: Glass wool, Thickness: 25mm)
- 2 Outside air may come into the room in cold area and
- place where outside air speed is high.

 3. In order to prevent the water from ingessing, install the two outside ducts inclined to outside.



• FY-E15PM1L



Specificat	ion									15PM1L
			-							
Power Source Notch		h Input	Air Volume	External Static Pressure	Temperature Exchange Efficiency(%)		Enthalpy Exchange Efficiency [%]		Noise	Product Weight
	4	[W]	(m³/h)	[Pa]	Cooling	Heating	Cooling	Heating	[dB(A)]	[kg]
	Extra High	90	150	70	64	80	69	75	32	
220V _ 50Hz	High	gh 80 150 45 64	80	69	75	30	31			
	Low	45	100	0	72	83	76	78	25	

FY-E15PM1

- 1. The input power, the current and the exchange efficiency are measured at the standard air volume.
- The noise is measured 1.5m away from the underface of the unit.
 The noise value measured at the total acoustic room is more than the indicated value in actual operation because it's affected by environment.
- 3. The above parameters are tested according to standard JIS B 8628.

FY-E25PM1 FY-E25PM1L

■ Maintenance Dimension

It must be set the maintenance cover, and clean the filter and heat exchange core as specified in instruction.

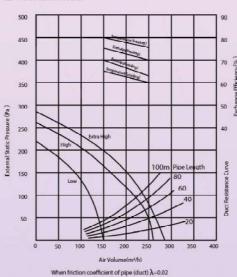
Product Dimension (Unit: mm)

- *1.Dimension of filter maintenance cover.

2.Differision of maintenance cover.
*3.Suspension point dimension.

No.	Part name	Qty	Material
1	Frame	1	Galvanized Steel Sheet
2	Adapter	4	ABS
3	Impeller	2	PP
4	Fan Motor	1	
5	Heat Exchange Core	1	Special Paper and Resir
6	Outdoor Filter	1	Non-woven Fabric
7	Return Filter	1	
8	Ceiling Suspension	4	Galvanized Steel sheet
9	Switch Box	1	Galvanized Steel sheet

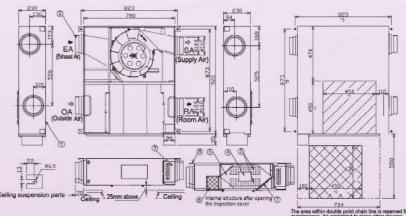
■ Performance



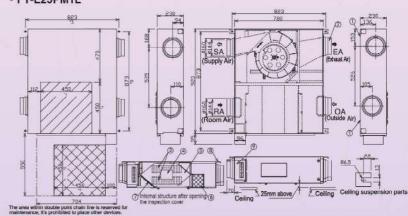
- 1. Duct size (Nominal Diameter):Ø150.
- 2. The above dimensions do not include the thickness of the insulation material in the unit.

■ Be careful of dew and frost

- 1. The two outside ducts must be insulated to prevent condensation.
- (Material: Glass wool. Thickness: 25mm) 2 Outside air may come into the room in cold area and
- 3. In order to prevent the water from ingessing, install the two outside ducts inclined to outside.



• FY-E25PM1L



Specificat	ion								ACRES 100 Co. (Co. 100)	25PM1 25PM1L			
		Heat Exchange Ventilation											
Power Source	Notch	Input [W]	Air Volume (m³/h)	External Static Pressure [Pa]	Temperature Exchange Efficiency (%)		Enthalpy Exchange Efficiency (w)		Noise	Product Weight			
					Cooling	Heating	Cooling	Heating	[dB(A)]	[kg]			
	Extra High	122	250	75	59	77	63	70	36	40			
220V _ 50Hz	High	117	250	50	59	77	63	70	35				
	Low	81	150	0	65	80	70	75	28				

- 1. The input power, the current and the exchange efficiency are measured at the standard air volume.
- 2. The noise is measured 1.5m away from the underface of the unit. The noise value measured at the total acoustic room is more than the indicated value in actual operation because it's affected by environment.
- 3. The above parameters are tested according to standard JIS B 8628.

PM2.5 SERIES

PRODUCT SPECIFICATION



FY-E35PM1 FY-E35PM1L

It must be set the maintenance cover, and clean the filter and heat exchange core as specified in instruction.

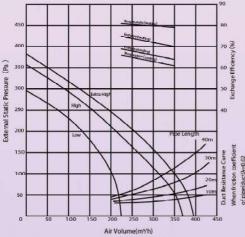
FY-E35PM1

● Product Dimension (Unit: mm) • FY-E35PM1

*1.Dimension of filter maintenance cover.
*2.Dimension of maintenance cover.
*3.Suspension point dimension.

No.	Part name	Qty	Material
1	Frame	1	Galvanized Steel Sheet
2	Adapter	4	ABS
3	Impeller	2	PP
4	Fan Motor	1	
5	Heat Exchange Core	2	Special Paper and Resin
6	Outdoor Filter	2	Non-woven Fabric
7	Return Filter	2	
8	Ceiling Suspension	4	Galvanized Steel sheet
9	Switch Box	1	Galvanized Steel sheet

■ Performance

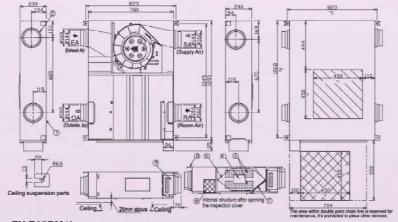


When friction coefficient of pipe (duct) λ =0.02

- 1. Duct size (Nominal Diameter):Ø150.
- 2. The above dimensions do not include the thickness of the insulation material in the unit.

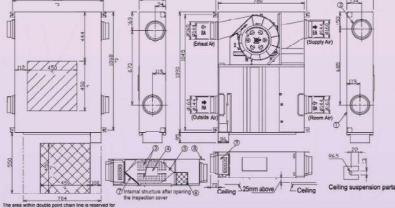
■ Be careful of dew and frost

- 1. The two outside ducts must be insulated to prevent condensation. (Material: Glass wool, Thickness: 25mm)
- 2 Outside air may come into the room in cold area and place where outside air speed is high.
- 3. In order to prevent the water from ingessing, install the two outside ducts inclined to outside.



■ Maintenance Dimension

• FY-E35PM1L



Specificat	1011								FY-E	35PM1
Power Source		Heat Exchange Ventilation								
	Notch	Input [W]	Air Volume (m³/h)	External Static Pressure (Pa)	Temperature Exchange Efficiency(%)		Enthalpy Exchange Efficiency (%)		Noise	Product Weight
					Cooling	Heating	Cooling	Heating	[dB(A)]	[kg]
	Extra High	229	350	100	59	79	64	70	37	48
220V _ 50Hz	High	217	350	60	59	79	64	70	36.5	
	Low	149	225	0	66	81	69	75	30	

- 1. The input power, the current and the exchange efficiency are measured at the standard air volume.
- The noise is measured 1.5m away from the underface of the unit.
 The noise value measured at the total acoustic room is more than the indicated value in actual operation because it's affected by environment.
- 3. The above parameters are tested according to standard JIS B 8628.

SLIM SERIES

PRODUCT SPECIFICATION



FY-E15DZ1 FY-E15DZ1L

■ Maintenance Dimension

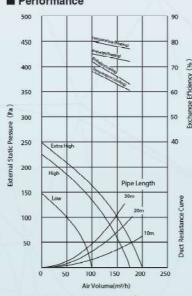
It must be set the maintenance cover, and clean the filter and heat exchange core as specified in instruction.

● Product Dimension (Unit: mm) • FY-E15DZ1

- *1.Dimension of filter maintenance cover.
- *2.Dimension of maintenance cover. *3.Suspension point dimension.

No.	Part name	Qty	Material
1	Frame	1	Galvanized Steel Sheet
2	Adapter	4	ABS
3	Impeller	2	PP
4	Fan Motor	1	
5	Heat Exchange Core	1	Special Paper and Resin
6	Outdoor Filter	1	Non-woven Fabric
7	Return Filter	1	
8	Ceiling Suspension	4	Galvanized Steel sheet
9	Switch Box	1	Galvanized Steel sheet

■ Performance

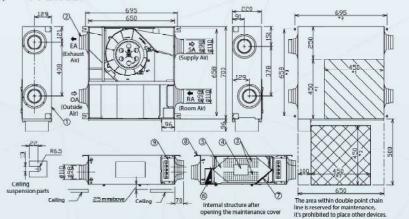


When friction coefficient of pipe (duct) λ =0.02

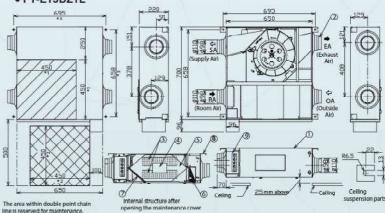
- 1. Duct size (Nominal Diameter):Ø100
- 2. The above dimensions do not include the thickness of the insulation material in the unit.

■ Be careful of dew and frost

- 1. The two outside ducts must be insulated to prevent condensation.
- (Material: Glass wool, Thickness: 25mm) 2 Outside air may come into the room in cold area and place where outside air speed is high.
- 3. In order to prevent the water from ingessing, install the two outside ducts inclined to outside.



• FY-E15DZ1L



Spe	cificati	on									15DZ1
				Hea	t Exchange	Ventilat	tion				
Power Source	100000000000000000000000000000000000000		Current	Air Volume	/olume Static Pressure	Temperature Exchange Efficiency (%)		Enthalpy Exchange Efficiency (%)		Noise	Product Weight
		[W]	[A]	(m³/h)	[Pa]	Cooling	Heating	Cooling	Heating	TUBIAN	[kg]
	Extra High	85	0.39	150	100	63	78	66	73	28	
220V _ 50Hz	High	79	0.36	150	55	63	78	66	73	28	27
	Low	45	0.20	100	0	68	80	72	75	22	

- 1. The input power, the current and the exchange efficiency are measured at the standard air volume.
- The noise is measured 1.5m away from the underface of the unit.
 The noise value measured at the total acoustic room is more than the indicated value in actual operation because it's affected by environment.
- 3. The above parameters are tested according to standard JIS B 8628.

PRODUCT SPECIFICATION



FY-E25DZ1 FY-E25DZ1L

It must be set the maintenance cover, and clean the filter and heat exchange core as specified in instruction.

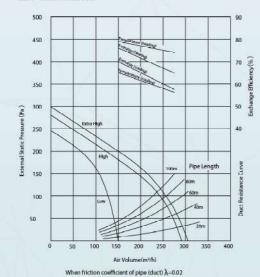
■ Maintenance Dimension

Product Dimension (Unit: mm)

*1.Dimension of filter maintenance cover. *2.Dimension of maintenance cover. *3.Suspension point dimension.

No.	Part name	Qty	Material
1	Frame	1	Galvanized Steel Sheet
2	Adapter	4	ABS
3	Impeller	2	PP
4	Fan Motor	1	
5	Heat Exchange Core	1	Special Paper and Resin
6	Outdoor Filter	1	Non-woven Fabric
7	Return Filter	1	
8	Ceiling Suspension	4	Galvanized Steel sheet
9	Switch Box	1	Galvanized Steel sheet

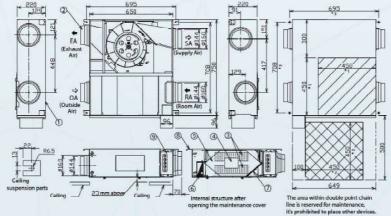
■ Performance

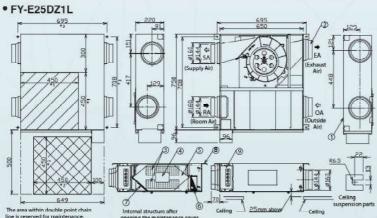


- 1. Duct size (Nominal Diameter):Ø150.
- 2. The above dimensions do not include the thickness of the insulation material in the unit.

■ Be careful of dew and frost

- 1. The two outside ducts must be insulated to prevent condensation. (Material: Glass wool, Thickness: 25mm)
- 2 Outside air may come into the room in cold area and place where outside air speed is high.
- 3. In order to prevent the water from ingessing, install the two outside ducts inclined to outside.





Spe	cification	on									25DZ1 25DZ11
				Hea	t Exchange	Ventilat	ion				
Power Source	Notch	Input	Current	Air Volume	External Static Pressure	Excha	erature nge ncy [+]	Enthal Excha Efficie		Noise	Product Weight
		[W] [A]	(m ³ /h)	[Pa]	Cooling	Heating	Cooling	Heating	[GB(A)]	[kg]	
	Extra High	125	0,59	250	115	58	75	60	67	32	
220V 50Hz	High	113	0.51	250	95	58	75	60	67	32	30
	Low	81	0.39	150	0	65	79	70	76	25	

- 1. The input power, the current and the exchange efficiency are measured at the standard air volume.
- The noise is measured 1.5m away from the underface of the unit.
 The noise value measured at the total acoustic room is more than the indicated value in actual operation because it's affected by environment.
- 3. The above parameters are tested according to standard JIS B 8628.



FY-E35DZ1 FY-E35DZ1L

It must be set the maintenance cover, and clean the filter and heat exchange core as specified in instruction.

Product Dimension (Unit: mm)

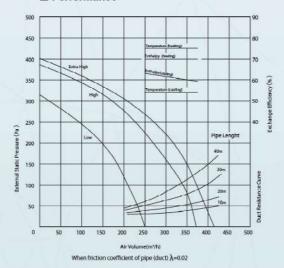
- *1.Dimension of filter maintenance cover.
- *2.Dimension of maintenance cover. *3.Suspension point dimension.

No.	Part name	Qty	Material
1	Frame	1	Galvanized Steel Sheet
2	Adapter	4	ABS
3	Impeller	2	PP
4	Fan Motor	1	
5	Heat Exchange Core	1	Special Paper and Resin
6	Outdoor Filter	1	Non-woven Fabric
7	Return Filter	1	
8	Ceiling Suspension	4	Galvanized Steel sheet

1 Galvanized Steel sheet

Performance

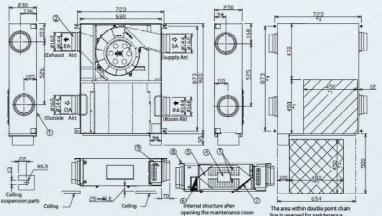
9 Switch Box

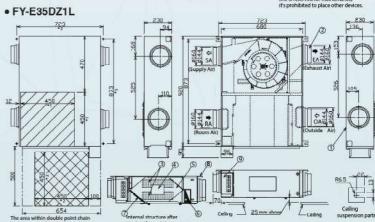


- 1 Duct size (Nominal Diameter):Ø150
- 2. The above dimensions do not include the thickness of the insulation material in the unit.

Be careful of dew and frost

- 1. The two outside ducts must be insulated to prevent condensation.
- (Material: Glass wool. Thickness: 25mm) 2 Outside air may come into the room in cold area and place where outside air speed is high.
- 3. In order to prevent the water from ingessing, install the two outside ducts inclined to outside.





FY-E35DZ1 FY-E35DZ1L ■ Specification Heat Exchange Ventilation Produc Weight [kg] DV1 [A] (m³/h) 54 75 60 70 225 1.02 150 Extra High 350 High 209 0.95 350 85 75 60 70 36 39 Low 150 0.68 250 54 75 63 70

- 1. The input power, the current and the exchange efficiency are measured at the standard air volume.
- 2. The noise is measured 1.5m away from the underface of the unit. The noise value measured at the total acoustic room is more than the indicated value in actual operation because it's affected by environment.
- 3. The above parameters are tested according to standard JIS B 8628.

SLIM SERIES

PRODUCT SPECIFICATION



FY-E50DZ1 FY-E50DZ1L

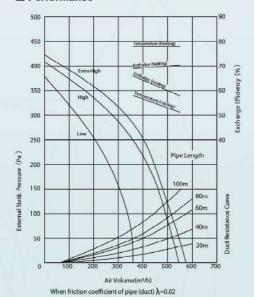
It must be set the maintenance cover, and clean the filter and heat exchange core as specified in instruction.

Product Dimension (Unit: mm)

*2.Dimension of maintenance cover. *3.Suspension point dimension.

No.	Part name	Qty	Material
1	Frame	1	Galvanized Steel Sheet
2	Adapter	4	ABS
3	Impeller	2	PP
4	Fan Motor	1	
5	Heat Exchange Core	2	Special Paper and Resin
6	Outdoor Filter	2	Non-woven Fabric
7	Return Filter	2	
8	Ceiling Suspension	4	Galvanized Steel sheet
9	Switch Box	1	Galvanized Steel sheet

■ Performance



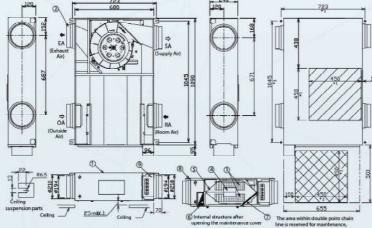
- 1. Duct size (Nominal Diameter):Ø200.
- 2. The above dimensions do not include the thickness of the insulation material in the unit.

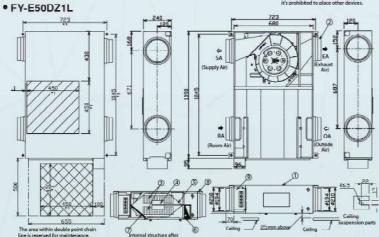
■ Be careful of dew and frost

- 1. The two outside ducts must be insulated to prevent condensation.
- (Material: Glass wool. Thickness: 25mm)

 2 Outside air may come into the room in cold area and place where outside air speed is high.

 3. In order to prevent the water from ingessing, install the
- two outside ducts inclined to outside





	Spe	ecifica							FY-ES	15 A
			i i		Heat Ex	change Ven	tilation			
Po	wer	Notch	Innut	Comment	Air	External Static	Temperature Exchange	Enthalpy Exchange	Noise	Produc Weigh

Power Source		i i		Heat Exc	change Ver	itilation							
	Notch	Input	Current	Air Volume	External Static Pressure	Temperature Exchange Efficiency (%)		Enthalpy Exchange Efficiency (%)		Noise [dB(A)]	Product Weight		
					[W]	[A]	(m³/h)	[Pa]	Cooling	Heating	Coaling	Heating	[UD(A)]
220V 50Hz	Extra High	315	1.43	500	120	53	78	60	70	37			
	High	288	1.31	500	85	53	78	60	70	37	45		
	Low	210	0.95	360	0	58	78	66	69	31			

- 1. The input power, the current and the exchange efficiency are measured at the standard air volume.
- 1.1 he input power, the current and the exchange efficiency are measured at the standard air volu
 2. The noise is measured 1.5m away from the underface of the unit.
 The noise value measured at the total acoustic room is more than the indicated value in actual operation because it's affected by environment.

 3. The above parameters are tested according to standard JIS B 8628.

STANDARD SERIES

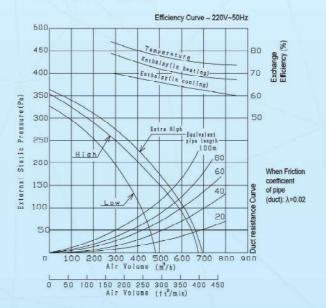
PRODUCT SPECIFICATION

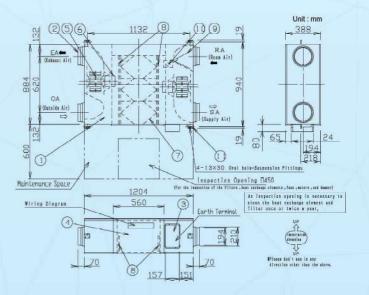


FY-650ZDY8

No.	Parts Name	Qly.	
1	Frame	1	Galvanized sheets
2	Adapter	4	ABS
3	Electrical Equipment Box	1	
4	Inspection Cover	1	Galvanized sheets
5	Fan	2	ABS
6	Motor	2	
7	Heat Exchange Element	3	Special paper + Resin
8	Filter	2	Nylon-Polyester Fiber
9	Damper	1	
10	Damper Motor	1	
11	Ceiling Suspension Fixture	4	Galvanized sheets

Performance





Specification

Model No	Power Source	Notch	Hz		Input [W]	Current [A]	Air Volume [m³/h]	External Static Pressure [Pa]	Temperature Exchange Efficiency (%)	Efficiency (%)		Noise [dB]	Product Weight [kg]			
									100000000000000000000000000000000000000	Cooling	Heating					
W/ \	Extra High	50	Heat Exchange Ventilation	326	1.45	650	65	75	62	68	36.5					
	Y-650ZDY8 220V 50Hz	Tingit		Normal Ventilation	326	1.45	650	65	*	*	*	36.5				
FY-650ZDY8		High	50	Heat Exchange Ventilation	269	1.22	650	40	75	62	68	34.5	68			
PA 3							Normal Ventilation	269	1.22	650	40				35.0	
	+-	Low	50	Heat Exchange Ventilation	200	0.88	460	40	79	66	73	30.0				
							Normal Ventilation	200	0.88	460	40	\$2	=	~	30.0	

^{*} 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, current and exchange efficiency are values at the time of mentioned air volume. The noise level shall be measured 1.5m below the center of the unit.

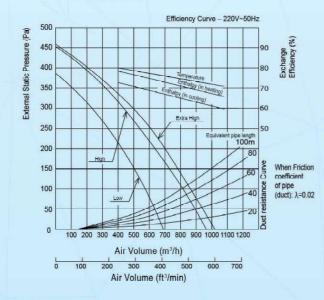
The temperature exchange efficiency averages that of when cooling and when heating

STANDARD SERIES

PRODUCT SPECIFICATION

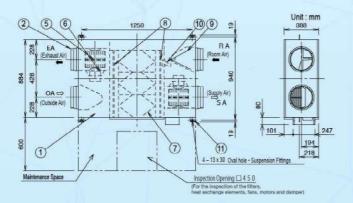


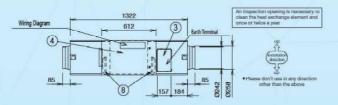
Performance



FY-800ZDY8

No.	Parts Name	Qly.	7
1	Frame	1	Galvanized sheets
2	Adapter	4	ABS
3	Electrical Equipment Box	1	1
4	Inspection Cover	1	Galvanized sheets
5	Fan	2	ABS
6	Motor	2	
7	Heat Exchange Element	3	Special paper + Resin
8	Filter	2	Nylon-Polyester Fiber
9	Damper	1	
10	Damper Motor	1	
11	Ceiling Suspension Fixture	4	Galvanized sheets

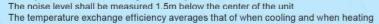




Specification

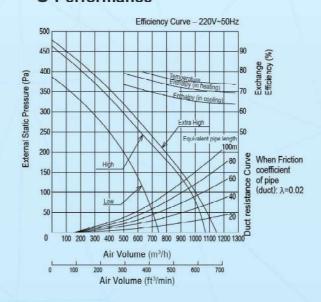
Model No	Power Source	Notch	Hz	4	Input [W]	Current [A]	Air Volume [m³/h]	External Temperature Exchange Pressure [Pa] Efficiency (%)		Enth Exch Efficier	alpy ange ncy (%)	Noise [dB]	Product Weight [kg]	
				100				20112000000000000000000000000000000000		Cooling	Heating			
		Extra High	50	Heat Exchange Ventilation	387	1.74	800	140	75	65	71	37.0		
n l	riigir		Normal Ventilation	387	1.74	800	140	*		190	37.0			
FY-800ZDY8	220V 50Hz	20V 50Hz High	20V 50Hz High	50	Heat Exchange Ventilation	360	1.58	800	110	75	65	71	36.5	71
21	1			Normal Ventilation	360	1.58	800	110	-	Nac:	150	36.5		
		Low	50	Heat Exchange Ventilation	293	1.23	630	55	76	68	74	33.5		
				Normal Ventilation	293	1.23	630	55	(4/	75	12)	33.5		

* 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, current and exchange efficiency are values at the time of mentioned air volume. The noise level shall be measured 1.5m below the center of the unit



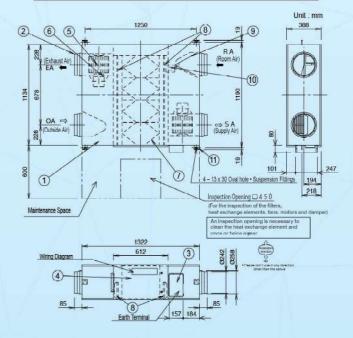


Performance



FY-01KZDY8A

No.	Parts Name	Qty.	
1	Frame	1	Galvanized sheets
2	Adapter	4	ABS
3	Electrical Equipment Box	1	
4	Inspection Cover	1	Galvanized sheets
5	Fan	2	ABS
6	Motor	2	
7	Heat Exchange Element	1	Special paper + Resin
8	Filter	2	Nylon-Polyester Fiber
9	Damper	1	
10	Damper Motor	1	
11	Ceiling Suspension Fixture	4	Galvanized sheets



Specification

Model No	Power Source	Notch	Hz		Input [W]	Current [A]	Air Volume [m³/h]	External Static Pressure [Pa]	Temperature Exchange Efficiency (%)	English and the second		Noise [dB]	Product Weight [kg]									
									T-	Cooling	Heating											
X		Extra High	50	Heat Exchange Ventilation	437	1.93	1,000	105	75	65	71	37.5										
	riigii		Normal Ventilation	437	1.93	1,000	105	(#c)	100	3.43	39.5											
FY-01KZDY8A	220V 50Hz	V 50Hz High	OHz High	50	Heat Exchange Ventilation	416	1.80	1,000	80	75	65	71	37.0	83								
													Normal Ventilation	416	1.80	1,000	80	(%)	(4.5	343	39.0	
	Low	Low	Low	low 5	50	Heat Exchange Ventilation	301	1.29	700	75	79	70	76	33.5								
	2511			Normal Ventilation	301	1 29	700	75		(*)	1.0	35.5										

^{*} 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, current and exchange efficiency are values at the time of mentioned air volume. The noise level shall be measured 1.5m below the center of the unit.

The temperature exchange efficiency averages that of when cooling and when heating

STANDARD SERIES

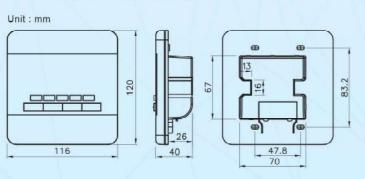
ACCESSORY

■ Wired Remote Controller ===

FY-EB90S1 (Applicable to PM2.5 Series and Slim Series)

Power: 220V / 50Hz Rated Wattage: 3.4W

Outer Size: 116mm x 120mm x 40mm





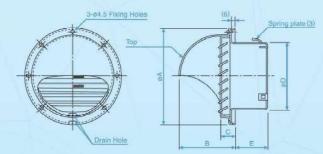
■ PIPE HOOD

- High strength adopt 0.5mm thickness SUS 304 stain less steel
- Excellent anti-rust capability hood part coated with metallic silver paint prevent oxidation of material
- Easy installation 3pcs of spring clip facilitate duct / pipe connection
- 2.5mm x 2.5mm net keep out ingress of small particles and insects from outside (FV-MGX100P & FV-MGX150P)
- It is recommended to use pipe hood with net at intake terminal while without net at exhaust





FV-MCX100P FV-MCX150P





Unit: mm

Model No.			C	D	
FV-MGX100P	141	79	20	97	48
FV-MGX150P	190	106	23	147	53
FV-MCX100P	141	79	20	97	48
FV-MCX150P	190	106	23	147	53

■ VENT CAP

- High strength adopt 0.5mm thickness SUS 304 stain less steel
- Easy installation 3pcs of spring clip facilitate duct / pipe connection
- 2.5mm x 2.5mm net keep out ingress of small particles and insects from outside (FV-VGX100P & FV-VGX150P)
- It is recommended to use vent cap with net at intake terminal while without net at exhaust





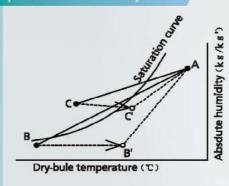


FV-VCX100P FV-VCX150P

Α		C	D	
120	97	145	13	47
169	147	195	18	52
120	97	145	13	47
169	147	195	18	52
	120 169 120	120 97 169 147 120 97	120 97 145 169 147 195 120 97 145	120 97 145 13 169 147 195 18 120 97 145 13

General Information and Installation

General Information (All ERV Models)



As shown in the figure to the left, suppose a high temperature absorbing air condition A and a low temperature absorbing air condition B are ploted on the air line figure, then a high temperature air A is heat-exchanged by the unit and goes out of the saturation curve as shown by Point C. In this case, the unit will be dewed or frosted. To avoid this, you are required to heat a low temperature air B up to B' so as to get C' below the saturation curve, before using the unit.

Use conditions

Outdoor air range - Temperature range -10°C ~40°C Relative humidity 85% or less

Installation requirements Same as the indoor air conditions

*Indoor air here means air in air-conditioned living rooms. Its use in refrigerators or other places where temperature can fluctuate greatly is prohibited even if a temperature range is acceptable.

Example Indoor air conditions

During cooling period - Temperature 27 °C

Relative humidity 50%

During heating period - Temperature 20 °C Relative humidity 40%

Installation Diagram (for PM2.5 Series and Slim Series)

■ Installation Diagram (Standard Model)

