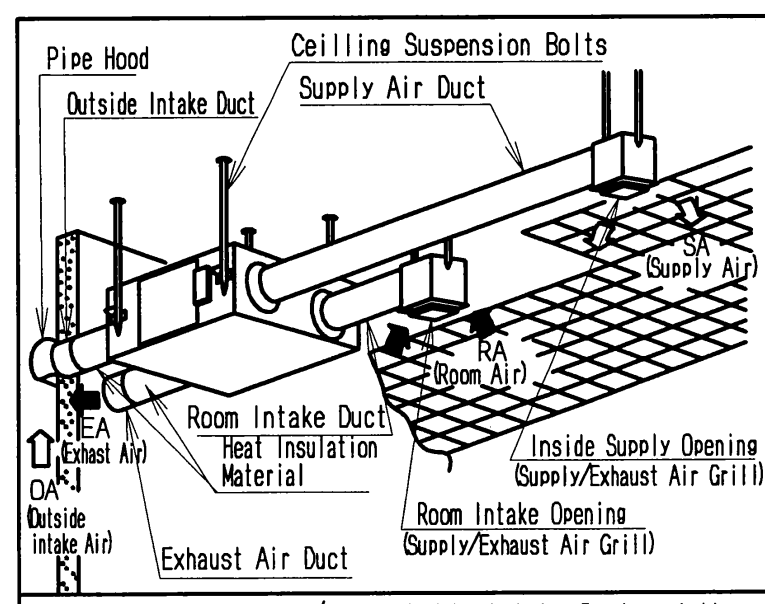
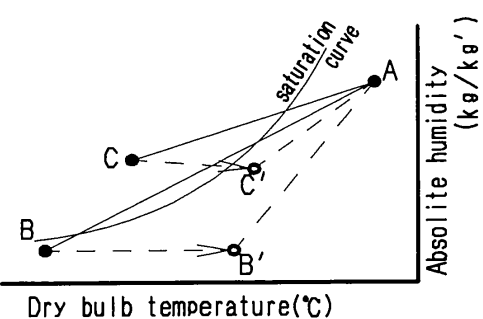


Reference Sketch



NO.	Parts Name	Qty.	Material	Remarks
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	Collection Efficiency AFI 82%
9	Damper	1		
10	Damper Motor	1		
11	Ceiling Suspension Fixture	4	Galvanized sheets	

Be careful of dewing and frosting.
 As shown in the Figure, suppose a high temp absorbing air condition A and a low temp absorbing air condition B are plotted on the air line figure, then a high temp 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 temp air B up to B' so as to get C' below the saturation curve, before using the unit.



Name				Model No.	
Energy Recovery Ventilator (Dimensions)				FY-650ZDY8	
Date of Made	2012.12.20	Scale	Drawing	Rev. NO.	
Date of Revision		Free	Reference No.	0	
Panasonic Ecology Systems Guang Dong Co., Ltd., Beijing Branch					

■ Specifications

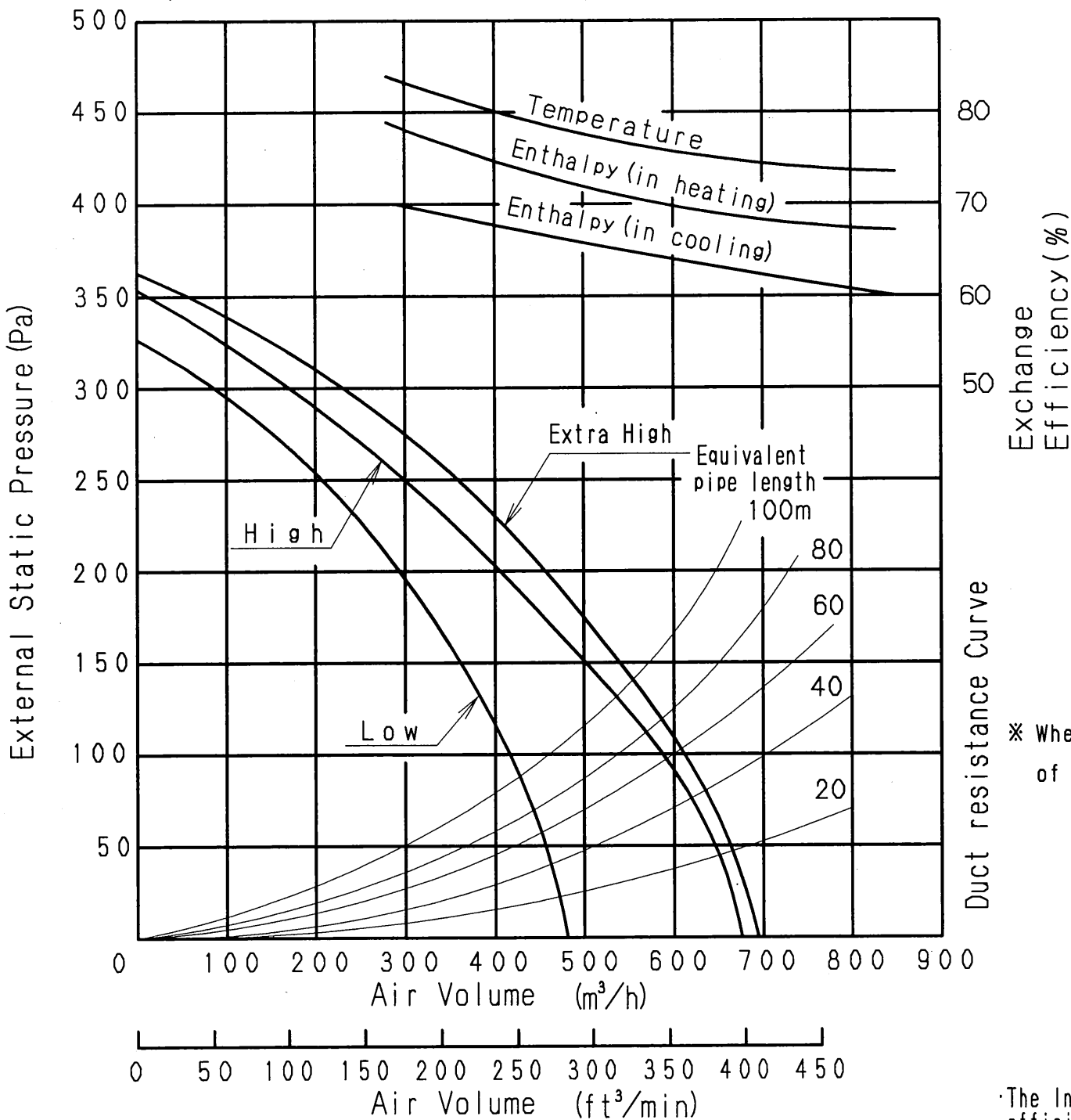
Model No.	Power Source	Notch	Frequency (Hz)	Heat Exchange Ventilation								Normal Ventilation					Product Weight (kg)
				Input (W)	Current (A)	Air Volume (m ³ /h)	External Static Pressure (Pa)	Temperature Exchange Efficiency (%)	Enthalpy Exchange Efficiency (%)		Noise (dB)	Input (W)	Current (A)	Air Volume (m ³ /h)	External Static Pressure (Pa)	Noise (dB)	
									Cooling	Heating							
650ZDY8	220-240V a.c.	Extra High	50	326-347	1.48-1.45	650	65	75	62	68	36.5-37.5	326-347	1.48-1.45	650	65	36.5-37.5	68
		High	50	269-295	1.22-1.23	650	40	75	62	68	34.5-35.0	269-295	1.22-1.23	650	40	35.0-35.5	
		Low	50	200-210	0.91-0.88	460	40	79	66	73	30.0-32.0	200-210	0.91-0.88	460	40	30.0-32.0	

* 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.

■ Performance

P-Q Curve

Efficiency Curve — 220-240V~50Hz



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 center of the unit.

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

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
 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%

■ Motor Specifications

Type	4 Poles open type induction motor
Rating	Cont.
Insulation Class	class E
Temperature Rise	under 75 K
Surrounding Temperature	-10°C~40°C
Insulation Resistance	over 1MΩ (by DC500V)
Withstand Voltage	AC 1,500V for 1min

Name				Model No.	
Energy Recovery Ventilator (Specifications)				FY-650ZDY8	
Date of Made	2012.12.20	Scale	Drawing	Rev. NO.	
Date of Revision		Free	Reference No.	1	
Panasonic Ecology Systems Guang Dong Co.,Ltd.,Beijing Branch					