



Heco ventilation system

Heat Recovery Ventilator

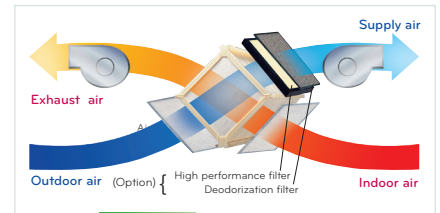
- High efficiency heat exchanger
- Bypass ventilation
- Strong filter function
- Flexible installation
- Easy cleaning and changable filter
- BLDC Fan motor
- Linear E.S.P remote control



Key Features

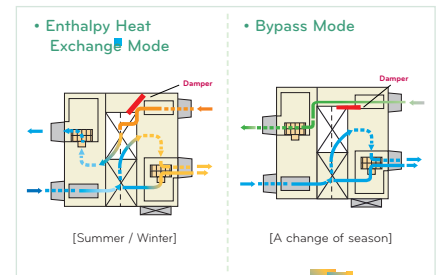
High efficiency heat exchanger

Efficiency and comfort is ensured by the high-efficiency energy recovery central core which recovers energy from the indoor air and transfers it to the fresh incoming air without mixing airstream.



Bypass ventilation

It switches automatically the ventilation mode (Enthalpy Heat Exchange Mode / Bypass Mode) according to the indoor/outdoor temperature.



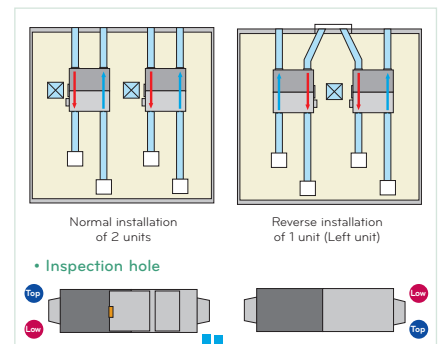
Strong filter function

The air filter has collection efficiency above 80%, which means it can filter particles up to 0.3 m including tobacco of smoke and even floating particles from yellow sand.



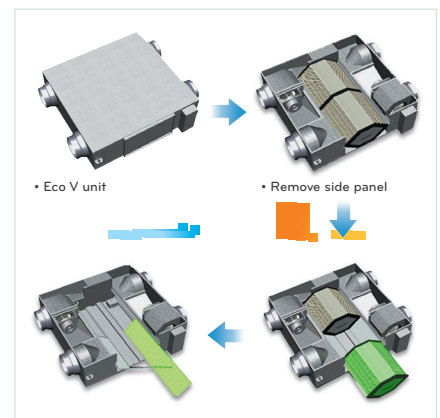
Flexibility of installation

It's possible to install the opposite direction of upper and lower part. It needs the only one inspection hole.



Easy cleaning and changing filter

Door attached side panel and slide removable Enthalpy heat exchanger filter can be changed without additional maintenance.

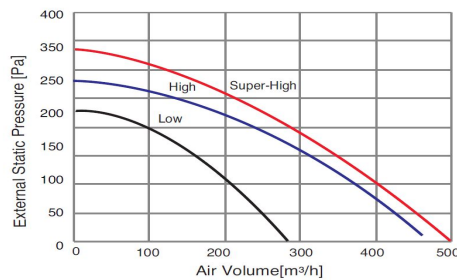




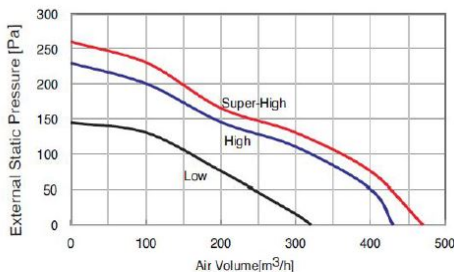
- Note: 1. ERV mode : Total Heat Recovery Ventilation mode
 2. *: Refer to dimensional drawings.
 3. Noise level:
 - The operating conditions are assumed to be standard
 - Sound measured at 1.5m below the center the body.
 - Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
 - The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
 4. Temperature and Enthalpy Exchange Efficiency at cooling
 Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 30.4% RH
 5. Temperature and Enthalpy Exchange Efficiency at heating
 Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
 6. Temperature Exchange efficiency is tested at heating condition.

			HECO 25	HECO 35	HECO 50	
Nominal Capacity			CMH (CFM)	250 (147)	350 (206)	500 (294)
Power Supply			Ø / V / Hz	1, 220-240, 50-60		
ERV Mode	Step		-	SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	90 / 75 / 52	150 / 135 / 80	240 / 230 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	80 / 80 / 83	75 / 75 / 77	78 / 78 / 79
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72	68 / 68 / 70	72 / 72 / 74
		Cooling (SH / H / L)	%	66 / 66 / 68	63 / 63 / 65	67 / 67 / 69
Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	27 / 25 / 23	28 / 26 / 25	34 / 32 / 25	
Bypass Mode	Step		-	SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	90 / 75 / 52	150 / 135 / 80	240 / 230 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	27 / 25 / 23	28 / 26 / 25	34 / 32 / 25
Heat Exchanger	Type	-	Air to air cross flow heat exchange			
Net Weight	kg		44	44	45	
Dimension	W x H x D	mm	988 x 273 x 1,014			
	Qty	EA	4			
Duct work*	Size (Ø)	mm	Ø200			
	Qty	EA	1			
Supply Air Fan	Type	-	Direct-Drive (Sirocco Fan)			
	Qty	EA	1			
Exhaust Air Fan	Type	-	Direct-Drive (Sirocco Fan)			
	Qty	EA	2		2	
Filters	Type	-	Cleanable fibrous fleeces			
	Size (W x H x D)	mm	855 x 10 x 166		855 x 6 x 230	

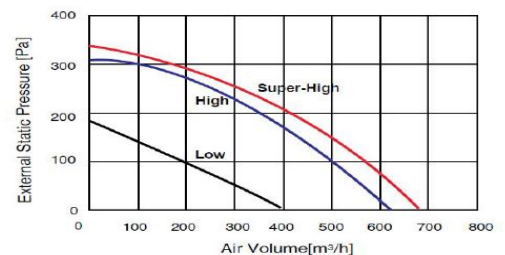
Heco 35



Heco 25



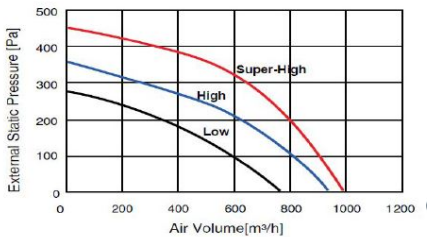
Heco 50



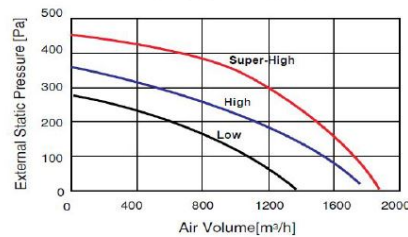


			HECO 80	HECO 100	HECO 150	HECO 200	
Nominal Capacity			CMH (CFM)	800 (471)	1,000 (589)	1,500 (883)	2,000 (1,177)
Power Supply			Ø / V / Hz	1, 220-240, 50-60			
ERV Mode	Step		-	SUPER-HIGH / HIGH / LOW			
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60
	Power Input	SH / H / L	W	370 / 280 / 170	480 / 385 / 210	740 / 540 / 340	960 / 770 / 420
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	79 / 79 / 82	77 / 77 / 78	79 / 79 / 82	77 / 77 / 78
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	71 / 71 / 72	70 / 70 / 72	71 / 71 / 72	70 / 70 / 72
		Cooling (SH / H / L)	%	64 / 64 / 66	62 / 62 / 64	64 / 64 / 66	62 / 62 / 64
Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	37 / 35 / 31	38 / 36 / 32	39 / 37 / 33	40 / 38 / 34	
Bypass Mode	Step		-	SUPER-HIGH / HIGH / LOW			
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60
	Power Input	SH / H / L	W	370 / 280 / 170	480 / 385 / 210	740 / 540 / 340	960 / 770 / 420
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	37 / 35 / 31	38 / 36 / 32	39 / 37 / 33	40 / 38 / 34
Heat Exchanger	Type	-	Air to air cross flow heat exchange				
Net Weight		kg	60			140	
Dimension	W x H x D	mm	1,062 x 365 x 1,140			1,313 x 738 x 1,140	
	Qty	EA	4			4 + 2	
Duct work*	Size (Ø)	mm	Ø250			Ø250 + Ø350	
	Qty	EA	1			2	
Supply Air Fan	Type	-	Direct-Drive (Sirocco Fan)				
	Qty	EA	1			2	
Exhaust Air Fan	Type	-	Direct-Drive (Sirocco Fan)				
	Qty	EA	2			4	
Filters	Type	-	Cleanable fibrous fleeces				
	Size (W x H x D)	mm	1,056 x 6 x 21 2.5				

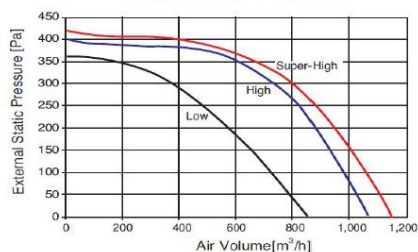
Heco 80



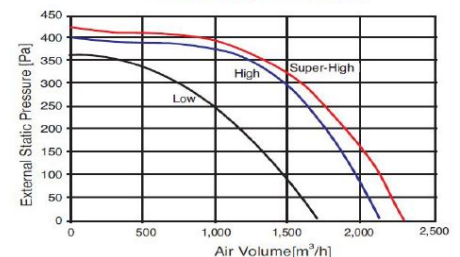
Heco 150



Heco 100



Heco 200



Accessories

Wired remote controller



professional (b)



professional (w)

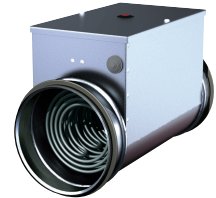
DRY CONTACT



	PQDSA/ PQDSB	PQDSA1/ PQDSB	
Contact point	1 control point	1 control point	
Power input	AC 220V from outside power source	AC 24V from outside power source	
Voltage / non voltage input	-	-	
On_off control	✓	✓	
Lock / unlock	-	-	
Fan speed setting	-	-	
Thermo off	-	-	
Energy saving	-	-	
Temperature setting	-	-	
Error monitoring	✓	✓	
Operation monitoring	✓	DC 10V	
Volt Free Switching	-	-	

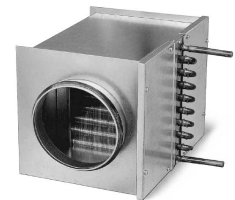
Electric duct heater

Electric duct heaters are designed to heat clean air in ventilation systems. Casings are made from aluzinc coated steel which is high temperature proof. Heating elements tubes are made from stainless steel. Heaters can be installed vertically or horizontally. Maximum output air temperature 50°C.



Water heater

Warm water heater battery for rectangular duct connection. Casing made form galvanised steel with flanges on both sides. Heating elements made of copper with aluminium fins. Max. Operating temp: 120 degrees c. Max. Operating pressure : 8 bar. Water pipes with male thread and equipped with water and air outlets.



Trickle & Boost

LV Trickle and Boost

This is a small PC board for mounting in the units Terminal box and is plugged into the CC-CO2 plug on the main board, allowing the trickle and boost board to switch between the normal and high running speed.

It requires a 240V supply from the unit and a 230V switched live from a relevant location such as a PIR Sensor There are 2 scales on the PC board one for low speed and one for high speed which give a varying 0-3V signal to the unit, A bridge can be moved on these scales to set the Required speed.



Note this item cannot be used when a CO2 sensor is being used.