

### 1. G3+F9 Filters



2. Enthalpy Heat Exchanger





4. Differential Pressure Switch

**3. Brushless DC Motor** 



**5. Bypass Facility** 



FILTERS



### Low resistance and high capacity of dust load

#### PM2.5 filtration efficiency 96.3%

	Filter Class	Material
Primary filter	G3	Plastic frame and non-woven cloth
Sub HEPA filter	F9	Paper frame and non-woven cloth







- 1. Higher efficiency, temperature and humidity recovery
- 2. High moisture permeability
- 3. Good air tightness
- 4. Excellent tear resistance
- 5. Long lasting more than 5 years
- 6. Test certificate from 3rd party available

### HEAT EXCHANGER

■ In Winter Heat is transferred when the air streams flow crossly through the channels, cold fresh air is pre-heated.

■ In Summer It recovers the cooling from exhausted air to pre-cool the hot fresh air, to save energy consumption of AC.



### **Brushless DC Motor**



Superior torque performance, big starting torque with less starting current Strong vibration resistance with lower noise and smooth operation High efficiency, energy saving by 20-60% Good liability and stability

Longer service life Easy maintenance



Model	Brushless DC	Common AC
XHBQ-D2.5DMTHA	85W	117W
XHBQ-D5DMTHA	140W	200W
XHBQ-D8DMTHA	188W	585W
XHBQ-D10DMTHA	312W	690W
XHBQ-D13DMTHA	405W	710W
XHBQ-D26DMTHA	810W	1300W

### **Differential Pressure Switch**





Once the pressure difference is larger than the setting value, the switch will transmit dirty filter signal to the control system, filter alarm symbol on the LCD display flashes to remind customer to replace the filter.



## **Bypass Facility**

# Spring/Autumn

During transition season or when may not use air conditioning, outdoor air is comfortable, bypass can help you take full advantage of fresh air resource.

In this case, it's not required to recover the heat from indoor, fast supply of fresh air is priority.





	No.	Item	Detail
	1	Supply fan	Default
	2	Exhaust fan	Default
T	3	Ν	N line
	4	L	L line
	5	PE	G line
	6	LD4	External electrical heater for OA, EA -1 $^\circ\!\!\mathbb{C}$ defrosted
	7	LD3 & LD4	External electrical heater for SA, 2 speed
	8	RS485 connector	BMS control
	9	Control panel port	Default
	10	CO2 sensor	Optional
	11	SA sensor	SA temperature display
	12	EA sensor	EA/FR temperature display
	13	OA sensor	OA temperature display
	14	RA sensor	RA temperature display



)	No.	ltem	Detail
No.	15	Differential pressure switch	Default
	16	External switch	Voltage free connector
	17	Bypass switch	Night free cooling
	18	Fire alarm signal input	ERV will stop when connect to fire alarm port on fire
	19	Fault signal output	If connect to a light, when ERV is faulty, the light will be on.
	20	Running signal output	If connect to a light, when ERV is running, the light will be on.

(7



)	No.	Item	Detail
•	21	Humidity sensor	lf
	22	Dial Switch	Refer to below Tag.
	23	Bypass connector	Default

- 1. SW4-1: OFF-Traditional EA fan defrost ON-OA side electrical heater defrost
- 2. SW4-2: OFF-Auto by-pass and manual bypass via voltage free connector (free cooling)
- 3. SW4-3: OFF-CO2 sensor

ON-Humidity and temperature sensor

4. SW4-4: Reserve







## **Touch Screen Intelligent Panel**

Temperature Display

° 20:38

- Speed Selection
- Timer ON/OFF
- Bypass ON/OFF
- Defrosting
- CO2 ppm Value Display
- Filter Alarm
- Fault Alarm
- Humidity Display
- Working Condition Monitor