

FRESH AIR FOR YOUR LIFE

**WMD Company OÜ**  
Vabaduse 174b, Nõmme  
Tallinn, Estonia

sales@westonclimate.com  
www.westonclimate.com  
+372 5568 9584



# ECO-SMART PRO PLUS

Energy Recovery Ventilators



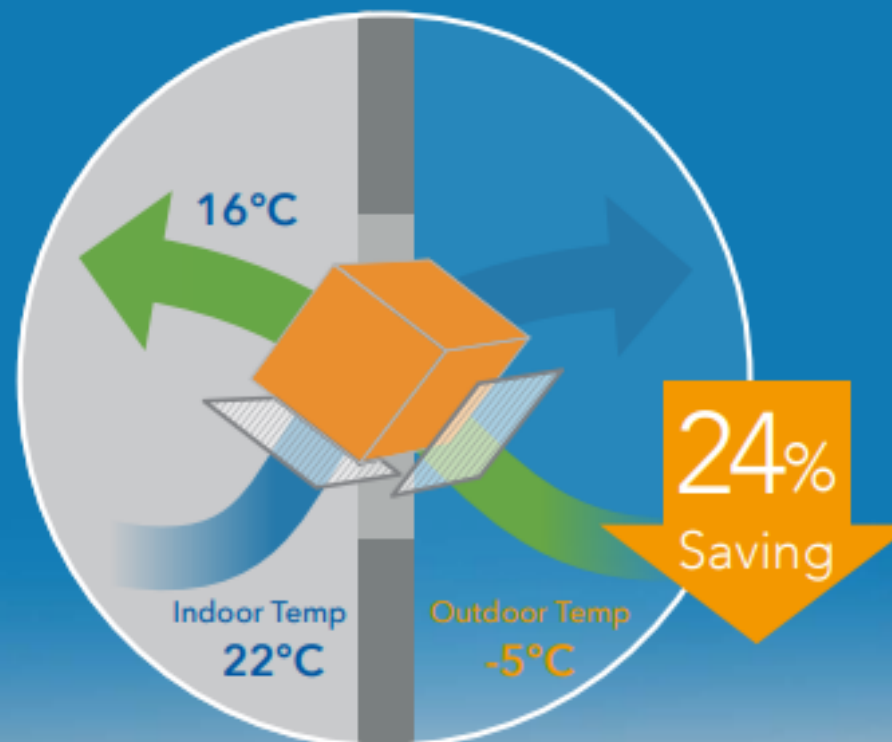




**Night Time Free Cooling**  
Supplies cool air during nighttime to reduce cooling load



**Timer Operation**  
ON/OFF timer can be set by users for automatic control to minimize the unnecessary operation



**Comfort Air + Energy Saving**  
Compare to naturalventilation  
High efficiency heat exchanger recover wasted energy while ventilating.



**CO2 Operation**  
Controls the fan speed automatically according to CO2 level



**Seasonal Auto Operation**  
Automatically changes operation mode based on the weather condition by sensing different temperature.

ERV saves energy **Max.39%** compare to natural ventilation

FRESH AIR IS ESSENTIAL TO IMPROVE BUILDING AIR QUALITY.  
WE IMPROVE THE QUALITY OF AIR,  
SO YOU CAN ENJOY THE QUALITY OF LIFE.



Model Descriptions

XHBQ-

D

2

TH C

1

2

3

4

5

- 1 ECO-SMART energy recovery ventilator
- 2 Installation type, D for suspended type
- 3 Rated airflow (m3/h), times 100
- 4 Washable primary filter
- 5 C is for black cool intelligent control

ECO-SMART

Energy Recovery Ventilators

XHBQ-D2THC,XHBQ-D3THC,XHBQ-D4THC



AC motor

3 speeds

Physical filtering

Energy recovery

Silent operation

Energy saving

Smart control

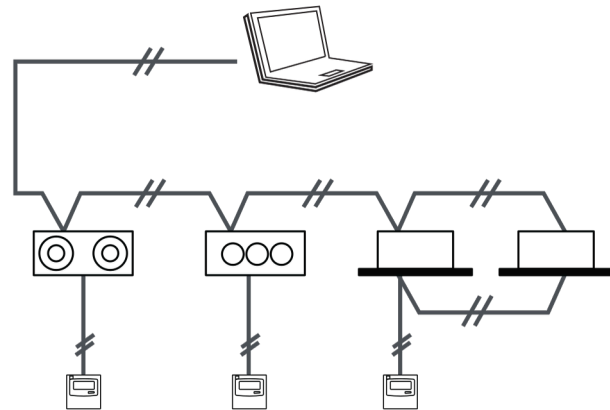
Filter alarm

Central control

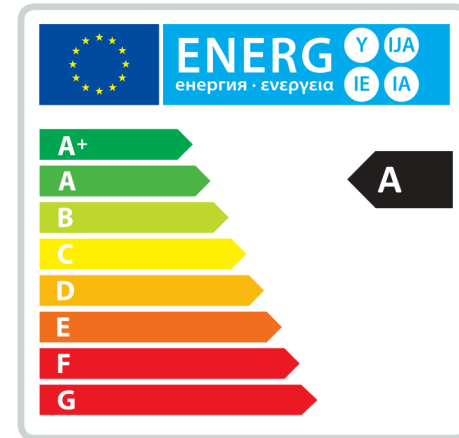
IAQ monitor



## Linkage with External A/C System or BMS Control



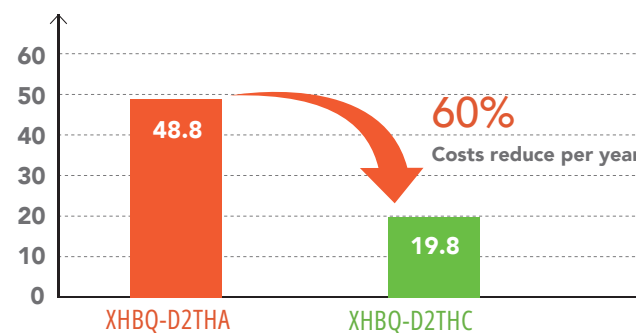
## Energy Efficiency Class of A (According to EUNO.1254/2014)



## Higher Energy Efficiency and Ecology by Powerful Motors

Full series Eco Smart energy recovery ventilator are built with higher efficiency brushless DC motors, power consumption is reduced by up to 70%, resulting in significant energy saving. VSD control is suitable for most of the projects air volume and ESP requirement.

Running costs comparison of Eco-vent pro ERV and Eco-smart pro ERV

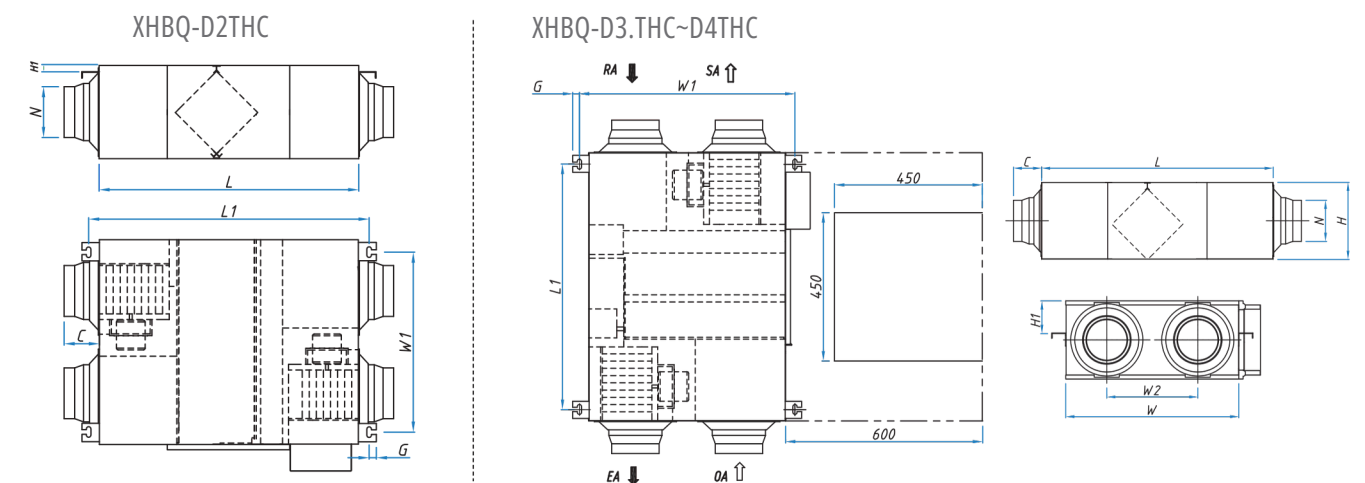


**Location:** Beijing  
**Airflow:** 250 m3/h  
**Summer:** 24h/day x 122days = 2928h (Jun. To Sep.)  
**Winter:** 24h/day x 120days = 2880h (Nov. To Mar.)  
**Electric charge:** 0.08 USD/Kw.h

## Specifications

Model	Airflow (m3/h)	External pressure (Pa)	Enthalpy Eff.(%)		Temp. Eff. (%)	Noise dB(A)	Input power (W)	Volt. (V)	N. W. (Kg)
			Summer	Winter					
XHBQ-D2THC	200	75	55-60	59-63	70-75	25-31.5	10	220-240	23
XHBQ-D3THC	300	85	57-62	61-65	68-73	27-34.5	5	220-240	25
XHBQ-D4THC	400	88	57-62	60-65	69-74	31-37.5	150	220-240	31

## Dimensions



Remarks:

- 1.It must have a access for the maintenance of filters, heat exchangers, fans, motors, and bypass damper.
- 2.Please clean the filters and heat exchangers 2 to 4 times every year.

Model	L	L1	W	W1	W2	H	H1	C	G	N
XHBQ-D2THC	736	795	580	510	290	264	20	100	20.5	Ø144
XHBQ-D3THC	814	745	599	657	315	270	111	100	20.5	Ø144
XHBQ-D4THC	814	745	804	860	480	270	111	100	20.5	Ø144





**XHBQ-D6THC~D13THC**



A Cmotor



3 speeds



Physical filtering



Energy recovery



EPS structure



Durable



Good insulation



Easy access



Silent operation



Bypass function



Energy saving



Smart control



Filter alarm



Central control

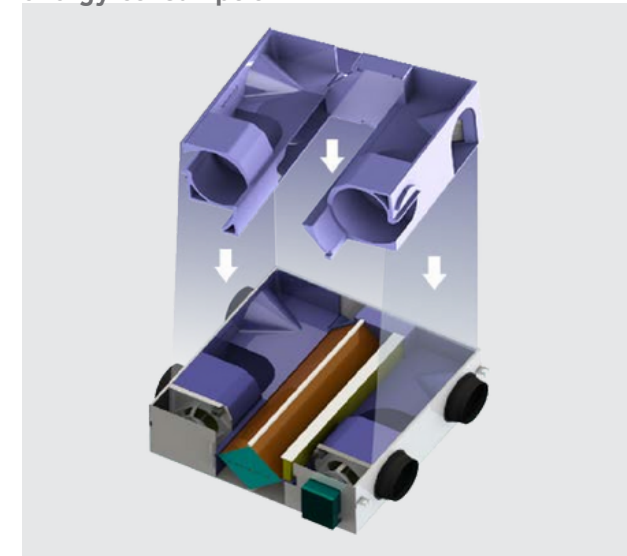


IAQ monitor



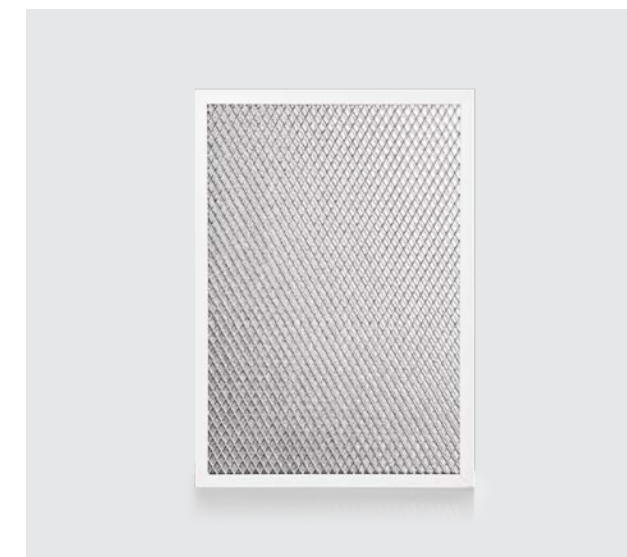
## Good Thermal Insulation

The whole series are intergated with EPS structure, effectively preventing condensation, and improving thermal insulation and saving energy consumption.



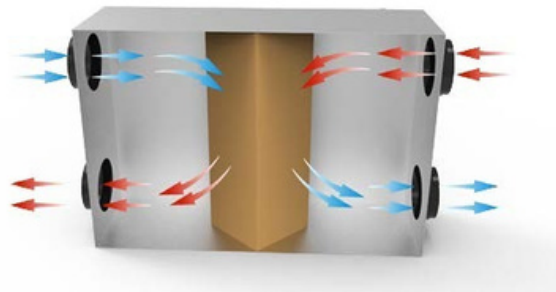
## New Primary Filter

New primary filter is made of aluminium alloy frame and rubber filtration materials with nice appearance and longer service life.



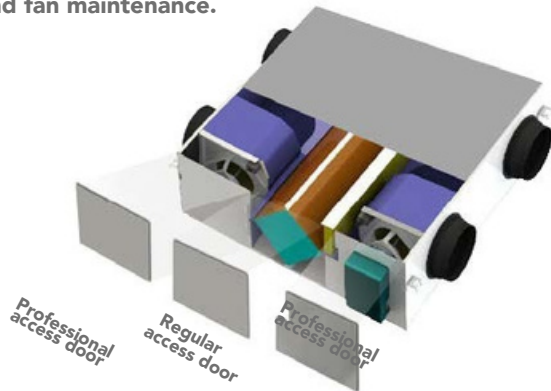
## New Compact Structure

New air flow channels are to increase heat exchange surface and improve energy recovery efficiency.



## Easy Maintenance

- Regular access door is for maintenance of primary filter, PM2.5 filter and heat exchangers.
- Increase two professional access doors for the control and fan maintenance.

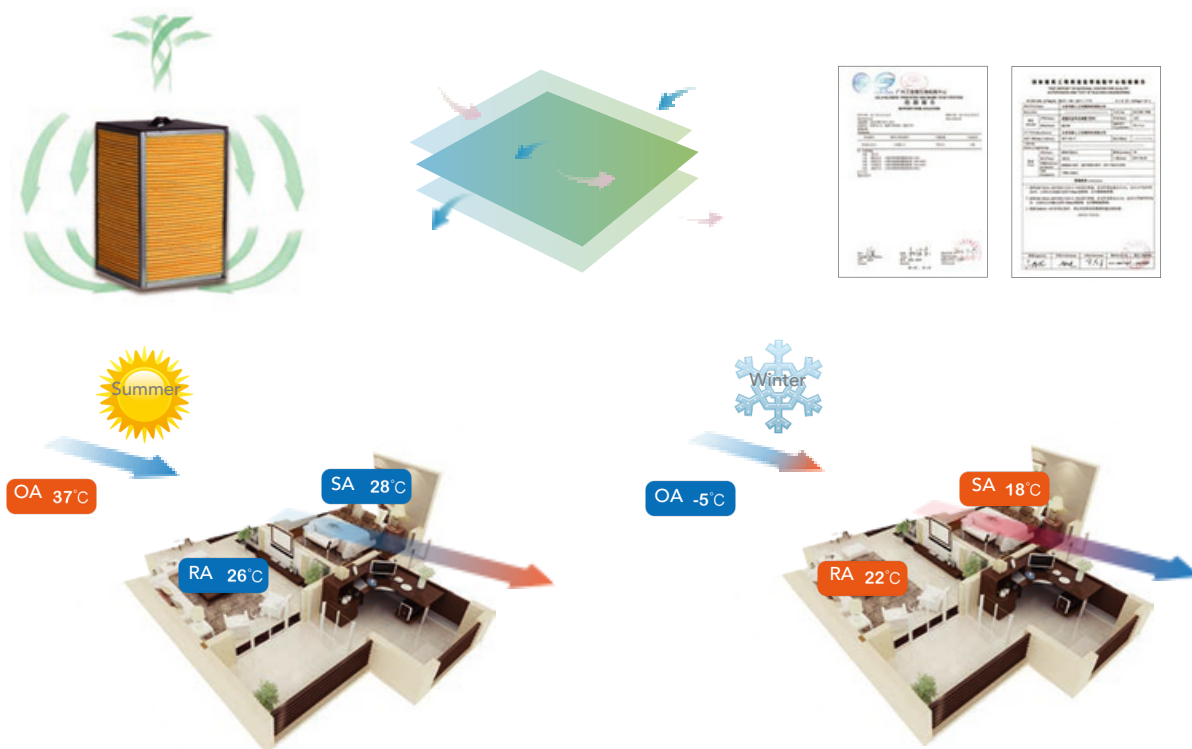


## Specifications

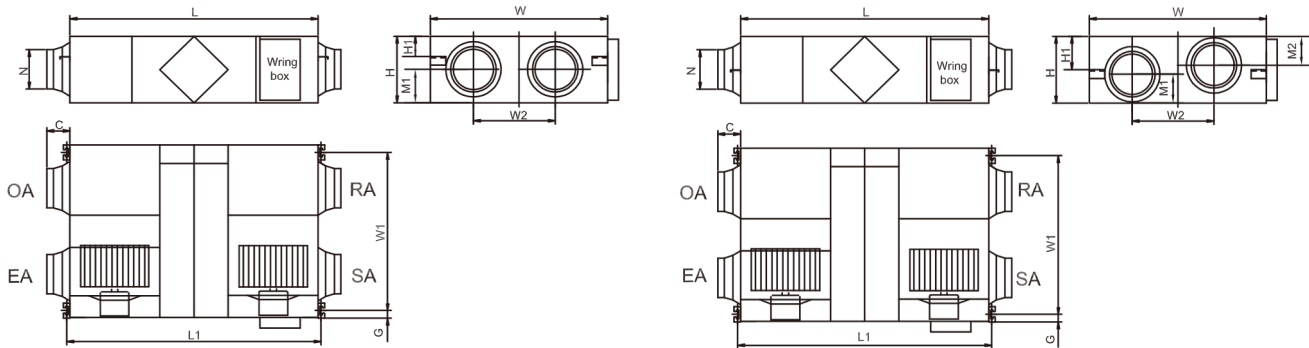
Model	Fan Speed	Airflow (m3/h)	External pressure (Pa)	Enthalpy Eff.(%)		Temp. Eff. (%)	Noise dB(A)	Current (A)	Input power (W)	N. W. (Kg)
				Summer	Winter					
XHBQ-D6THC	L	500	89	63	67	76	29	0.96	200	34
	M	600	92	59	61	70	35			
	H	600	97	59	61	70	39			
XHBQ-D8THC	L	700	92	57	63	74	34	2	420	53
	M	800	96	55	57	68	39			
	H	800	100	55	57	68	41			
XHBQ-D10THC	L	900	80	60	64	76	34	2.1	450	61
	M	1000	85	58	62	70	38			
	H	1000	86	58	62	70	42			
XHBQ-D13THC	L	1000	75	58	62	76	38	3.2	680	71
	M	1300	85	56	59	70	41			
	H	1300	90	56	59	70	43			

## Higher Efficiency with 3rd Generation Enthalpy Exchanger

The 3rd generation enthalpy exchanger is made of the latest nano fiber structure to ensure higher efficiency. The heat exchange materials are mildew resistance and fire retardance.



## Dimensions



XHBQ-D6THC~XHBQ-D8THC

XHBQ-D10THC~XHBQ-D13THC

Model	L	L1	W	W1	W2	H	H1	C	G	M1	M2	N
XHBQ-D6THC	867	922	902	833.5	451.5	280	115.5	107	26	139.5	/	Ø194
XHBQ-D8THC	1134	1189	884	818	378	388	128	85	26	194	/	Ø242
XHBQ-D10THC	1134	1189	1134	1068	628	388	128	85	26	194	/	Ø242
XHBQ-D13THC	1193	1248	1243	1173	629.5	388	133	85	26	139.5	241	Ø242

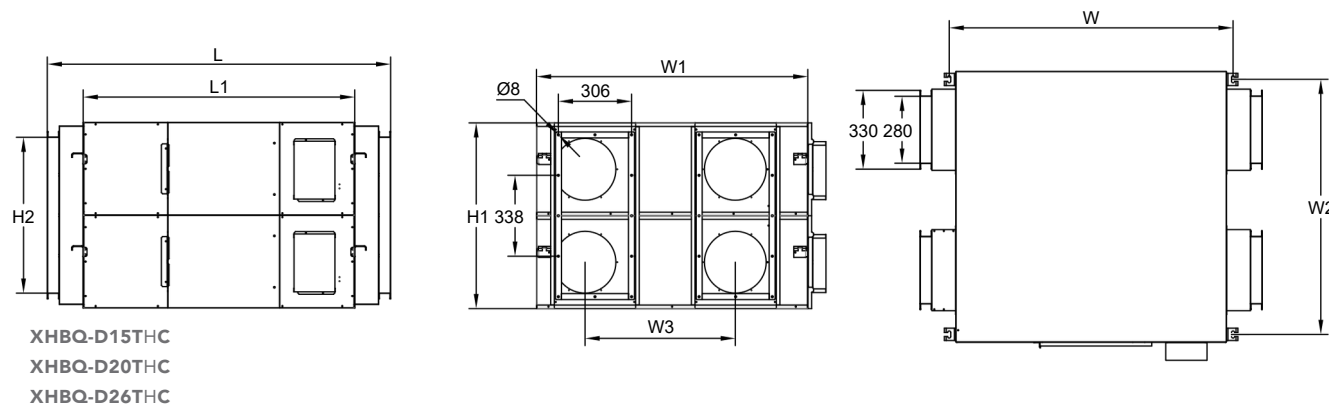


## Specifications



Model	Airflow (m3/h)	External pressure (Pa)	Enthalpy Eff.(%)		Temp. Eff. (%)	Noise dB(A)	Voltage (V)	Input power (W)	N. W. (Kg)
			Summer	Winter					
XHBQ-D15THC	1500	105	63-71	65-75	76-85	50	220-240	700	146
XHBQ-D20THC	2000	125	60-70	62-72	76-85	51.5	220-240	724	166
XHBQ-D26THC	2600	125	58-66	59-75	74-82	55	220-240	848	189

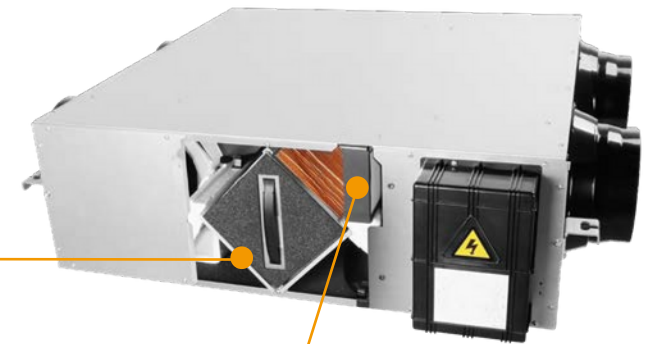
## Dimensions



Model	L	L1	W	W1	W2	W3	H1	H2
XHBQ-D15THC	1434	1134	1189	884	818	378	776	280
XHBQ-D20THC	1434	1134	1189	1134	1068	628	776	280
XHBQ-D26THC	1493	1193	1248	1243	1173	629.5	776	280

## Optional Filters

We also have optional filters for customers to use in different environment of air cleanness. If you need performance curves for different filters, please contact our sales team.



### Optional Fresh Air Filters:



Activated Carbon  
Primary Filter



F7 Filter

### Optional Supply Air Filters:



H10 Filter



H13 High Efficient Filter

## Air Filter Guide

### G3 / Activated Carbon Primary Filter MERV 6



Lasts up to 3 months



Ideal for home use



Traps 50% of airborne  
particles

### F7 Filter MERV 11



Lasts up to 3 months



Ideal for home and  
business use



Traps 95% of airborne  
particles

### F9 / H10 Filter MERV 13



Lasts up to 3 months



Ideal for home and  
business use



Traps 98% of airborne  
particles

### H13 Filter MERV 16



Lasts up to 3 months



Ideal for home and  
business use



Traps 99.9% of  
airborne particles



Intelligent Controller

Intelligent control	 HDK-CK-20
Type	Black cool intelligent control
Temperature display	OA/RA/SA/FR temp.
10 speed	✓
Weekly timer	✓
Bypass	Auto
External ON/OFF	✓
Comfortable heater control	✓
Defrosting	✓
CO2 control	✓
Filter alarm	✓
Fault alarm	✓
Data memory	✓
Night free cooling	✓
BMS integration	✓
Humidity control	✓
Defrosting heater control	✓
Working condition monitor	✓
Sleep mode	✓
Wifi function	✓



- Monitoring indoor air quality

Monitorlocal weather, temperature, humidity, CO2 concentration at your hand for healthy living.
- Variable setting

Timelyswitch, speedsettings, bypass/timer/filter alarm/temperature setting.
- Optional language

Differentlanguage English/French/Italian/ Spanish and so on to meet your requirement.
- Group control

OneAPPcancontrol multiple units.