



WHOLE HOUSE CLIMATE CONTROL SYSTEM

Air Purification + Ventilation + Heating + Cooling + Dehumidification



www.thenowair.com

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Energy Recovery Ventilating Heat Pump

— Special designed for energy saving green buildings —



Energy Recovery Ventilating Heat Pump

— Air Purification Ventilation Heating Cooling Dehumidification —

Three Core Technologies



Enhanced
Vapor Injection



DC Frequency
Converting Control System



Condensation
Heat Recovery

IAQ Control System



PM2.5

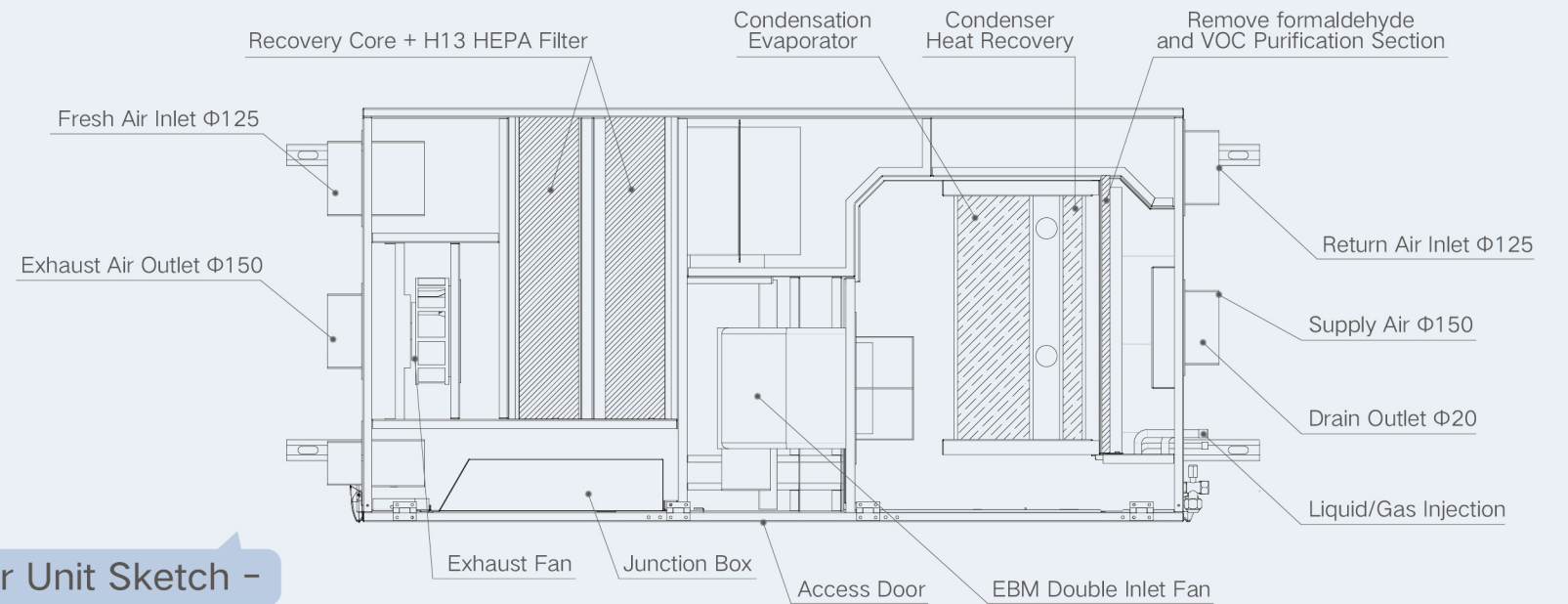


CO₂



TVOC

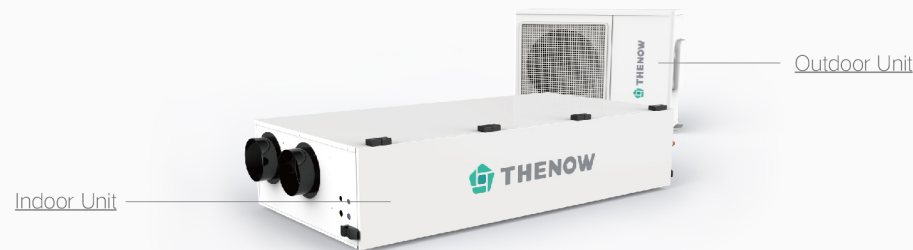
Energy Recovery Ventilating Heat Pump



- Indoor Unit Sketch -

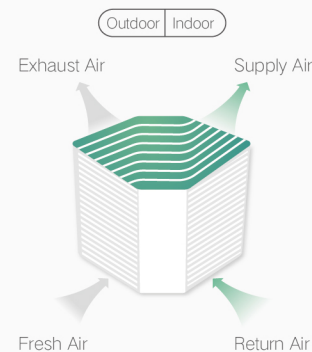
- Features -

Split-type, Indoor Unit and Outdoor Unit



Recovery Core

- Made of imported nano membrane, high enthalpy recovery efficiency.



Corrosion and Condensation Resistant

- Device body with quality powder coated steel, drain pan with 304 stainless steel.
- The cold-bridge-free case lined with insulation material, no external condensation.

DC Frequency Converting Compressor

- Self-adapted, more energy-saving and efficient.
- Lower noise, operating in a smooth natural characteristic curve and realize stepless stable speed regulation.

Enhanced Vapor Injection

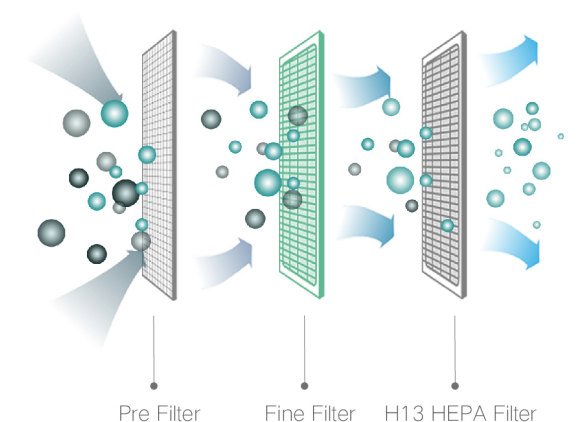
- Improve Energy Efficiency Ratio when heating under low ambient temperature.

IAQ Control System (PM2.5 CO2 TVOC)

- Adjust fresh air automatically according to the real-time concentration of PM2.5, CO2, and TVOC to keep good IAQ all the time.

Multi-layer Air Filtration System

- Pre Filter**
Filter larger particles such as the dust, soft flocks etc.
- Fine Filter**
Remove the particles 1~5μm
- H13 HEPA Filter**
Remove PM2.5 and other smaller particles



99%

PM2.5 Purification Efficiency Up To

WORKING PRINCIPLE

According to the real-time indoor air CO₂, PM2.5 and TVOC value, the device can automatically bring in fresh outdoor air or indoor air. The fresh air will be purified and exchange sensible heat and latent heat with exhaust air through the exchanger's core. The air streams' temperature and humidity will be adjusted by the inverted compressor, condenser & evaporator, and throttle element. Besides, controlled by two electronic expansion valves (under the closed loop PID control), the supply air temperature and humidity can be more precisely regulated through condenser heat recovery. Under stepless speed regulation, outdoor condensing DC fan ensures that the unit operates with the highest COP. Also condensed water flows into the drain pan and be exhausted.



- Technical Data -

Performance	Unit	VHSN-5-GS01
Temperature	°C	20~24
Humidity	RH	45~60%
Air Flow	M ³	350
Rated Cooling Capacity	kW	5.2
Rated Heating Capacity	kW	6.3
Cooling Input Power	kW	1.48
Heating Input Power	kW	2.1
Rated Dehumidification	L/D	120
Rated Motor Power	W	200
External Static Pressure	Pa	120
Noise	dB(A)	≤40
Input Voltage	V	AC 200 / 50Hz / 1N
Compressor Quantity	↑	1
Connection Duct Size (Heat Recovery/Air duct/Liquid duct)	mm	12.7 12.7 9.52
Injection Refrigerant (R410A)	kg	2.3
Weight (External/Internal)	kg	35/150
Internal Unit Dimension (L*W*H)	mm	1600*680*315
External Unit Dimension (L*W*H)	mm	840*365*550



Intelligent Control System



Intelligent Control

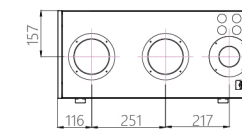
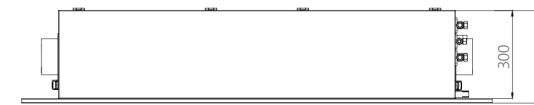
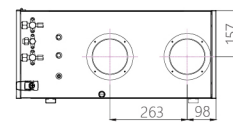
Bring You The Most Comfortable Air

- **Whole Year Working Under Auto Control:** No manual work, dehumidification, heat recovery, heating and ventilation etc all work automatically.
- **One Key Trusteeship:** Under "Auto" Mode, it works intelligently to ensure the best IAQ. Only need to press one "Turn On/Off" key.
- **Vacation Mode:** Vacation mode available, no odors and mildew at home during your leave time, our machine will work one time only at midnight per day according to the IAQ and humidity, and energy consumption at its lowest.



EBM EC Motor

- Energy-saving, Low Noise, Large Air Flow, High Static Pressure



- Indoor Unit Structure Size -

