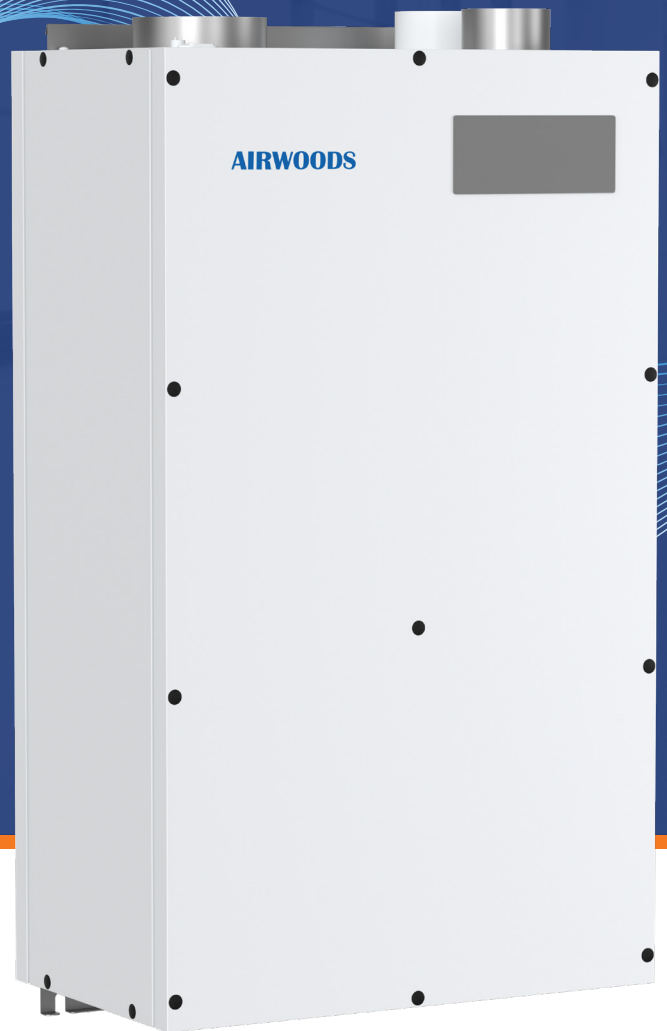


FRESH AIR DEHUMIDIFIER

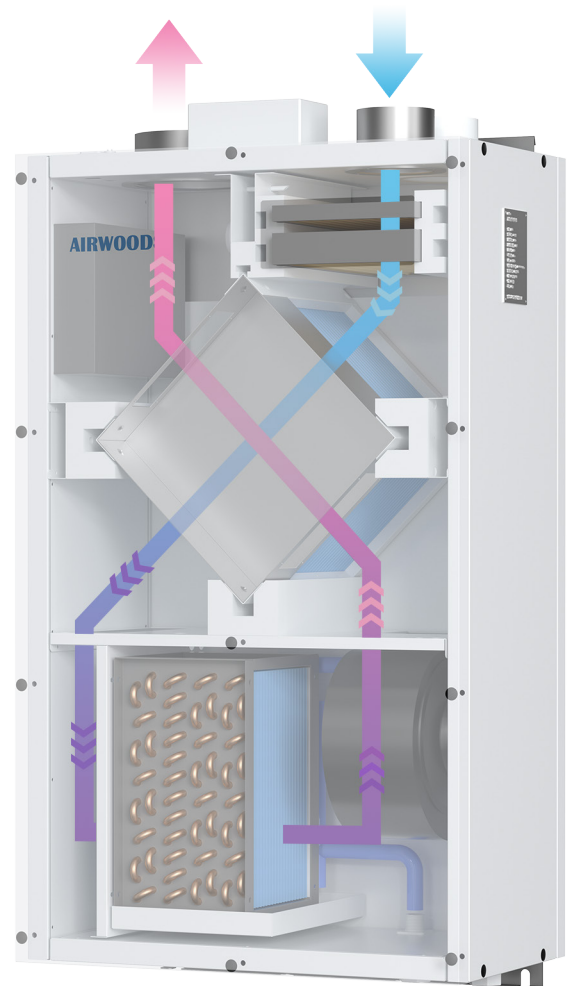
- AD-CW30
- AD-CW50



*Innovative Air Solution
for Energy Saving*

Working Principle

After outdoor fresh air (or half of return air mixed with fresh air) is filtered by primary filter (G4) and high efficient filter (H10), passes through the plate heat exchanger for precooling, then entering into the water coil for further de-humidification, and cross the plate heat exchanger again, undergoing the sensible heat exchanging process to preheat/precool the outdoor fresh air.



Advantages

30

30mm foam board shell



Water cooling coils for de-humidification



Sensible plate heat exchange efficiency is 50%, with built-in drain pan



2 air inlets & 1 air outlet



EC fan, two speeds, adjustable airflow for each speed



Wall-mounted installation (only)

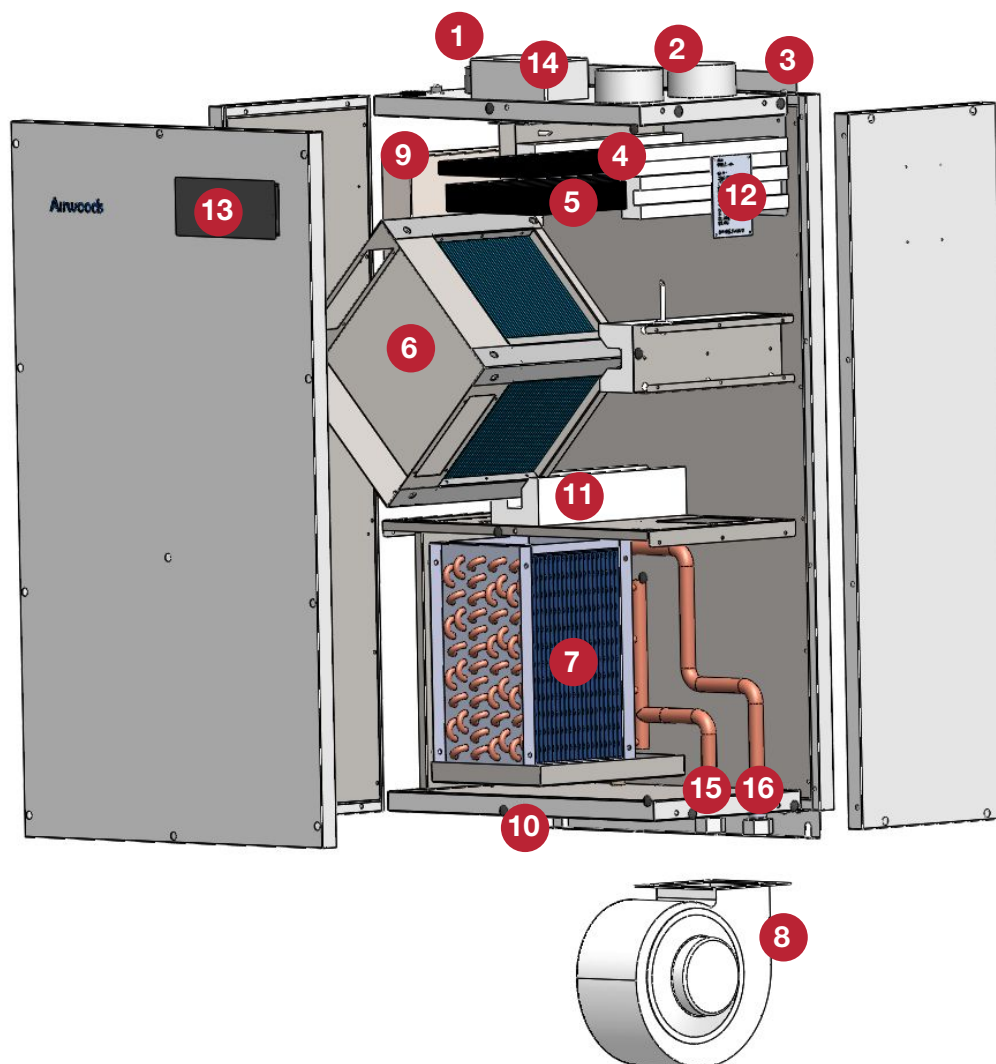


Pressure difference gauge alarm, filter replacement reminder optional



Flexible left type (fresh air comes up from left air outlet) or right type (fresh air comes up from right air outlet)

Product Construction



- | | | |
|----------------------------------|-----------------------|-----------------|
| 1 Air outlet | 7 Water coil | 12 Nameplate |
| 2 Air inlet | 8 Supply fan | 13 Access door |
| 3 Hook | 9 Built-in controller | 14 Wiring box |
| 4 Primary filter (G4) | 10 Drain pan | 15 Water outlet |
| 5 HEPA filter (H10) | 11 Insulated rail | 16 Water inlet |
| 6 Crossflow plate heat exchanger | | |

Performance Data

Model No.	Rated Air Volume (CMH)	Maximum External Pressure (Pa)	Efficiency (%)	Dehumidification Capacity l/day	Stowage Power (W)
AD-CW30	300	150	50	120	120
AD-CW50	500	200	50	200	400

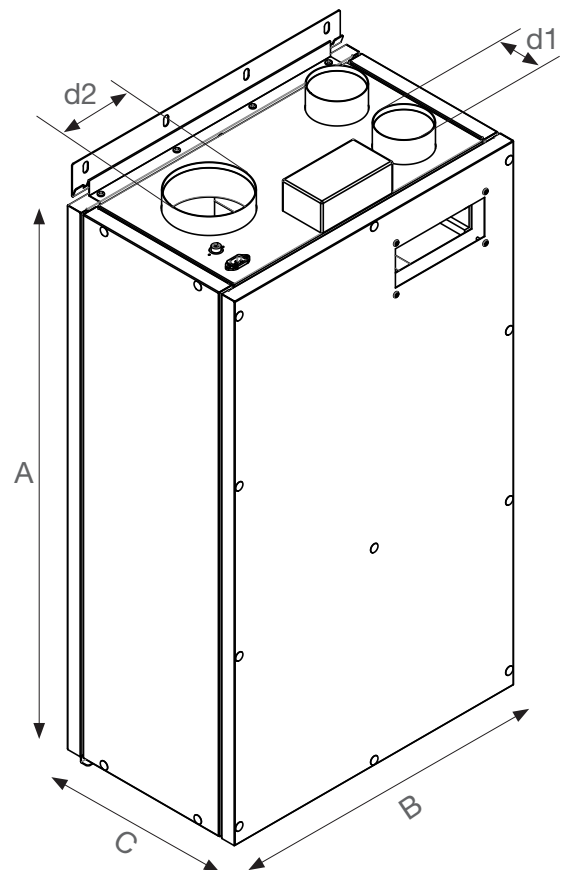
Remarks:

Dehumidification capacity is tested under the following conditions:

- 1) The working condition be 30°C/80% after the fresh air mixed with return air.
- 2) The water inlet/outlet temperature is 7°C/12°C.
- 3) The operating air speed is the rated air volume.

Physical Data

Model No.	AD-CW30	AD-CW50
Height (A) mm	1050	1300
Width (B) mm	620	770
Thick (C) mm	370	470
Air inlet diameter (d1) mm	ø100*2	ø150*2
Air outlet diameter (d2) mm	ø150	ø200
Weight (kg)	72	115



Selection Program

Airflow CMH

Working conditions

Outdoor air Deg C

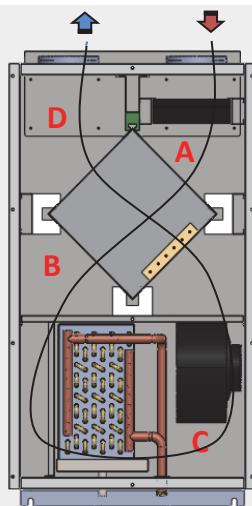
%

Air outlet temp. after coil Deg C

Plate heat exchange efficiency

Sensible heat efficiency

7 °C cold water volume Ton/Hour



Load Calculation

Total load **11.37 KW**

Cooling load **8.46 KW**

Dehumidification capacity **10.17 Kg/h**

Heat recovery **2.9 KW**

Working point

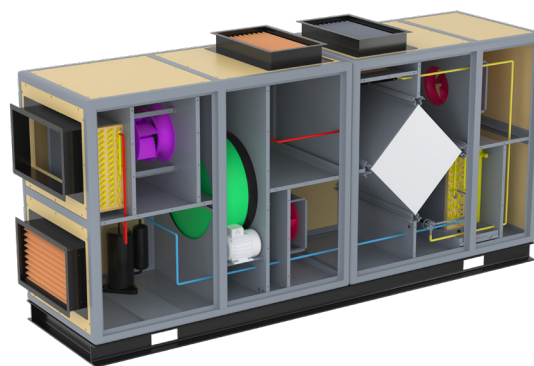
Celsius Temperature

Relative humidity

Absolute humidity

	A	B	C	D
Celsius Temperature	30°C	23.8°C	10°C	24°C
Relative humidity	80%	100%	100%	40.4%
Absolute humidity	21.7g/kg	18.6g/kg	7.6g/kg	7.6g/kg

Applications



We have other energy saving dehumidification solutions such as double heat recovery fresh air dehumidifier for commercial or industrial applications. Please contact our sales team for more information.