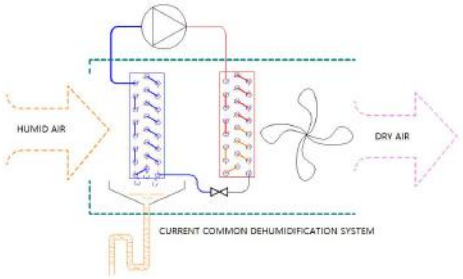
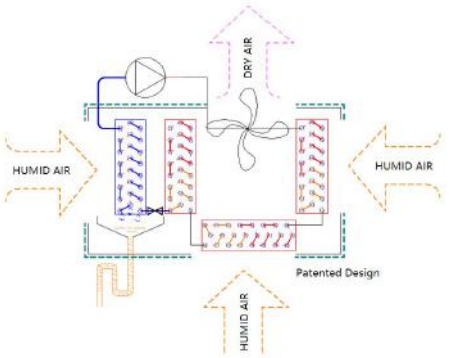
New 3 ways Air Inlet Dehumidification System

High Efficiency at High/Low Temperature Conditions



Current dehumidification process the humid air first enters the evaporator to cool down and remove moisture, then enters the condenser to be re-heated to lower the relative humidity.



Patented 3 ways Dehumidification System, 1/3 of the humid air enters the evaporation side for dehumidification and then to be re-heated. The remaining 2/3 of the humid air helps to dissipate heat at the condenser, this increase the efficiency of the evaporator to achieve lower dew point temperature thus will remove more moisture from the humid air.

Product Overview

This series of dehumidification units pursues high efficiency and energy saving; the principle of stability and safety is being taken into consideration as the basic design. This unit is design to have high-performance that meet the current requirements of “energy saving and environmental protection”. This series of products is compact in structure and high energy-efficient, low noise, high air volume, safe operation, good reliability, suitable for many applications and heat recovery.

The unit has wide temperature adaptability and is suitable for ambient drying and dedicated drying process for various industrial applications. It is more suitable for places where heat needs to be recycled. This unit is available in a variety of models and can be widely used in wood paint drying rooms, underground dehumidification, swimming pool dehumidification, food hot air drying, and tobacco leaf drying, etc.; it can also be applied to low temperature places such as pharmaceutical cold storage, low temperature cold storage (2-8℃), food low temperature cold air drying, etc. It has high energy efficiency, reasonable noise level, low temperature transfer, solid appearance and easy maintenance.

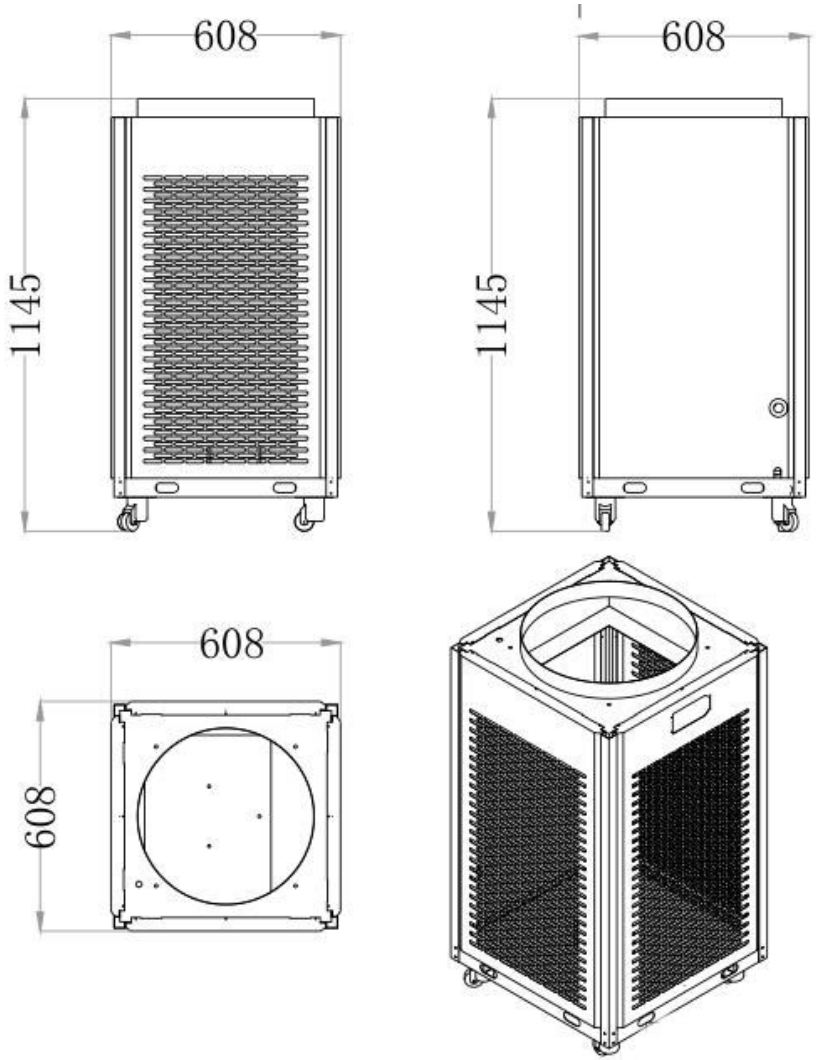
Application areas




Technical Specifications

Model	ecoHD168L	ecoHD240L	ecoHD360L	ecoHD480L
Dehumidifying capacity (30°C, 80%)	7 Kg/hr	10Kg/hr	15 Kg/hr	20Kg/hr
Dehumidifying capacity (55°C, 40%)	4.2Kg/hr	7.5Kg/hr	11Kg/hr	15.2Kg/hr
Circulating air volume	3000m3/h	4500m3/h	6000m3/h	9000m3/h
External static pressure	30Pa	30Pa	45Pa	45Pa
Noise Level	50dB(A)	52dB(A)	54dB(A)	58dB(A)
Operating Temperature and Humidity range	15 - 55°C; 35 - 95%		15 - 55°C; 35 - 95%	
Power supply	220~240V~50HZ	3P~415V-50HZ	3P~415V-50HZ	
Rated Power	2.4KW	4.2KW	4.8KW	8.5KW
Refrigerant	R22 / R134A / R410A		R22 / R134A / R410A	
Compressor	Hermetic Scroll Type		Hermetic Scroll Type	
Air filter	G4 Nylon		G4 Nylon	
Dimension W x D x H	612*612*1120mm	612*612*1120mm	1220*612*1220mm	1220*612*1220mm
Air filter	130 KG	150 KG	235 KG	295 KG

Machine Dimensions



Dimension \ Model		eco HD168L	eco HD240L	eco HD360L	eco HD480L
A1	mm	612	612	1220	1220
B2	mm	612	612	612	612
C3	mm	1220	1220	1220	1220