

HOLTOP



Fresh Air Dehumidification System

Dehumidifier | Ventilation | Purification





Monitoring the air quality and humidity in your home is essential for your health and comfort, as well as protection for your home and belongings.

Holtop central dehumidifier is designed to work with other HVAC systems to bring fresh and clean outdoor air to your home.



Brand compressor



High efficiency heat exchange



HEPA filter



UV sterilizing lamp



Intelligent controller



Multiple mode switching



Timer



Filter alarm



+ More efficient, stable and reliable refrigeration and dehumidification system

Working Principle of Holtop Fresh Air Dehumidification Systems

The Holtop fresh air purification and dehumidification system adopts the principle of cooling dehumidification. By reducing the temperature of the air, the excess moisture in the air will be extracted, and then adjust the air to comfortable temperature and humidity by the reheating system.

High Efficient Heat Exchange System

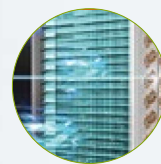
Holtop heat exchange system uses a highly efficient hydrophilic aluminum foil honeycomb heat exchanger. Compared to other forms of heat exchangers, Holtop's heat exchangers increase the vaporization area and contact surfaces to create higher vaporization efficiency and speed. At the same time, the honeycomb fin structure increases the disturbance to the air, allowing the air and heat exchanger to exchange heat more thoroughly.

Imported World Famous Compressor

Holtop uses imported international brand compressors with low noise and high efficiency.

Excellent Cooling Components

Holtop's high-efficiency cooling dehumidification system uses international famous brand cooling accessories including solenoid valves, filters, etc., to ensure the reliability, stability, safety and performance of the dehumidifier.



Hydrophilic aluminum foil honeycomb heat exchanger



International brand compressors

+ Dehumidifier + Ventilation+Purification One-Stop Solutions

Multiple Filters to Ensure Health

A large-area primary filter can effectively filtrate large particles such as hair and pollens.

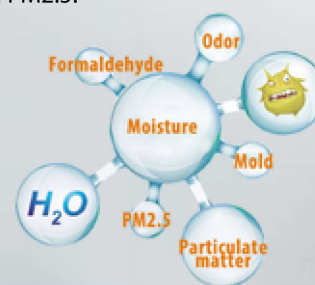
HEPA-grade high-efficiency filter can easily purify harmful particles such as PM2.5, and the purification efficiency is over 95%.

The activated carbon and cold catalyst filter can double-effectively remove harmful substances such as formaldehyde, benzene and TVOC, as well as odor.

The UV sterilizing function (optional) can quickly kill 99% of bacteria, molds and viral viruses in the air.

Make the Moist Air Clean and Dry

HOLTOP fresh air purification and dehumidification system can simultaneously solve the problems of indoor environment, such as lack of oxygen, humidity and various pollutants like PM2.5.



+ Quiet Operation



+ Intelligent controller



Intelligent operation

HOLTOP selects high quality temperature and humidity sensor and TVOC sensor. According to the monitoring result, intelligently select the appropriate running mode.



HDK-S-001



Intimate guardian

Timing function, filter cleaning reminder function, and child lock function, for your convenience.



HDK-S-002



Intelligent WIFI function

Built-in intelligent WIFI function, using the family's WIFI network, remote control through mobile devices easily by HOLTOP cloud.



HDK-S-003



Multiple mode switching

HOLTOP fresh air purification dehumidification system can choose different working modes according to indoor and outdoor environment.

Fresh air mode: In this mode, the system filters the outdoor fresh air and supplies it indoors.

Dehumidification mode: In this mode, the system dehumidifies and filtrates the indoor air and delivers it back to the room.

+ Specifications

Central Dehumidifier



HDK-S-001



HDK-S-002

Model		DS200DB1	DS500DB1	DS800DB1	DS1200DB1
Dehumidification capacity	L/D	20	50	80	136
Airflow	m ³ /h	200	500	800	1200
External pressure	Pa	150	160	100	100
Filters		Primary filter + High efficiency filter + Activated carbon, cold catalyst filter			Primary filter + High efficiency filter + Activated carbon
Purification		UV Sterilizing lamp (optional)			Negative ion+UV Sterilizing lamp
Input Power	KW	0.38	0.92	1.43	1.5
Current	A	1.7	4.2	6.5	6.8
Voltage		220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Fresh air inlet size	mm	Ø 98	Ø 98	Ø 144	Ø 200
Supply air outlet size	mm	Ø 98	Ø 144	Ø 194	Ø 200
Return air inlet size	mm	Ø 110	Ø 150	Ø 194	Ø 200
Machine size	mm	700*405*265	775*450*340	880*580*370	1063*650*375
Weight	kg	25	40	50	56
Suitable room size	m ²	10~40	80~100	150~200	150~200

Test conditions: T=30 °C, RH=80% ;

The HDK-S-001 controller is suitable for DS200/500/800DB1 devices; the HDK-S-002 controller is suitable for DS1200DB1 devices.

Double-way Heat Recovery Central Dehumidifiers



HDK-S-002

Model		SS280DB1	SS600DB1	SS1200DB1
Dehumidification capacity	L/D	26	76	136
Fresh air flow	m ³ /h	280	600	1200
Return air flow	m ³ /h	170	360	720
External pressure	Pa	50	80	100
Filters		Primary filter + High efficiency filter + Activated carbon		
Purification		Negative ion + UV Sterilizing lamp		
Input Power	KW	0.6	1.25	1.55
Current	A	2.7	5.7	7
Voltage		220V/50Hz	220V/50Hz	220V/50Hz
Air inlet size	mm	Ø 100	Ø 100	Ø 100
Machine size	mm	1020*610*250	1154*640*320	1458*921*385
Weight	kg	47	67	104
Suitable room size	m ²	10~40	80~100	150~200

Test conditions: T=30 °C, RH=80% ;

The HDK-S-002 controller is suitable for Model SS280/600/1200DB1.

Industrial Ceiling Duct Type Dehumidifiers



HDK-S-003

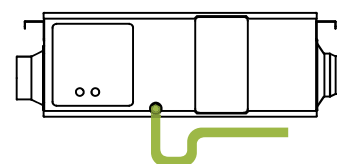
Model		DS2200DA1	DS4300DA1	DS5300DA1
Dehumidification capacity	L/D	168	360	480
Airflow	m ³ /h	2200	4300	5300
External pressure	Pa	120	150	150
Filters		Primary filter + High efficiency filter + Activated carbon, cold catalyst filter		
Input Power	KW	2.5	7.5	8.7
Current	A	5	11	13
Voltage		380V/50Hz	380V/50Hz	380V/50Hz
Fresh air inlet size	mm	625*580	1150*600	1150*600
Supply air outlet size	mm	497*360	923*361	923*361
Machine size	mm	1160*755*730	1347*1100*730	1347*1100*730

Test conditions: T=30 °C, RH=80% ;

The HDK-S-003 controller is suitable for Model DS2200/4300/5300DA1.

Notice

- The hose should be used to connect the equipment and the pipes, the connection distance should not be less than 500mm.
- The duct diameter should be the same as those of the air outlet. Do not reduce the diameter of the duct connector seriously.
- The drain pipe needs to be insulated, and the U-bend and exhaust hole should keep a certain slope.
- Drainage system should be tested before installation.
- Noise and vibration transmission should be considered for all ductwork to the unit.



* Water trap should be filled before installation



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