

Sentinel HDi90 Dehumidifier

Specifications

Features	Sentinel HDi90
Energy Star Listed	✓
Compressor Type	Rotary
More Thorough, And More Quick	✓
Ducting options	✓
Condensate Pump	✓
HGV Defrosting	✓
Easy handling	✓
Water Full protection	✓
Environmental R410A Refrigerant	✓
Automatic humidistat control	✓
Memory Starting	✓
Epoxy Powder Coating	✓
Continuous Model	✓
HVAC Remote System	✓
Remote Control	✓
Low Temperature	✓
Bypass Air sensor	✓

Specifications	Sentinel HDi90
Power	115V/60HZ,220V/50HZ
Current	5.56A(115v/60Hz),3.95A(220v/50Hz)
COP	2.88L/Kwh(115v/60Hz),3.0L/Kwh(220v/50Hz)
Size For	Up tp2,600 sq.ft.
Filter	Clean Air Filter,HEPA,Merve-8
Air flow	310CFM,530CMH
Sound Pressure Level	<55DBA
Refrigerant	R410A
Wheel	Adjustable wheel
Draining	Condensate Pump
Defrosting Control System	HGV Defrosting
Functioning Temperature Range	1~40°C
Functioning Humidity Range	35~95%
Capacity115V(80°F-60%)	90Pints(43L/D)
Capacity220V(30°-80%)	90L(160ppd/D)
Weight	78.0lbs(35.5KG)
Dim(W*H*D)	630*350*400mm
Loading quantity	20":180Sets/40":412Sets/40"HQ :515Sets

Application

The **Sentinel HDi90** dehumidifier is designed specifically for crawlspaces and basements. Low noise level, **great COP**,2.88/LKM(115V/60Hz)&3.0/LKM(220V/50Hz) and **huge capacity** 90PPD at AHAM condition makes it reached **Energy Star** in first class.The **Sentinel HDi90** supplements the air conditioning system in the summertime and maintains humidity levels balanced of the year.

The **Sentinel HDi90** with horizontal **configuration and unique dual airflow outlets** makes it an ideal solution for basements and crawl spaces. **Installation flexibility** makes the unit ideal for almost any application. No conventional dehumidifier can perform as efficiently and effectively in basements and crawl spaces as **Sentinel HDi90**. It is the best choice for residential work and restoration jobs ,and suitable for household, shops,storage areas,industrial institutions and garage applications etc..

The **remote humidistat** design makes this unit an ideal choice for places where remote sensing and controlling is required. Optional duct mounting flanges reduce the installation time when connecting to an existing/new ducting systems.

Key Design Features

- Hot Gas Valve Defrosting System
- Supper COP Energy Star Listed
- 2.88L/Kwh(115v/60Hz),3.0L/Kwh(220v/50Hz)
- Rugged Condensate Pump(Developed only for Dehumidifier)
- Coated Coils with Stainless Side Plate
- Quick Access to Pump and Main Board
- Smallest Size
- HVAC Remote System

Additional Features

- Engineered for low temperature operation and the air flow issues that crawl spaces present
- Ducting options for divided spaces
- Remote Control equipped
- Heavy-Duty Condensate Pump
- Quick connector to Pump(the pump can be taken out freely just full out the quick connector)



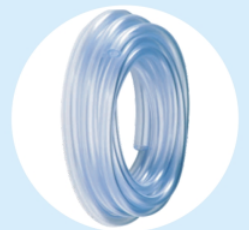
Pump



Return Duct Kit



Clean Air Filter



Wrinkle free tube

EFFICIENT • LARGE CAPACITY • POWERFUL

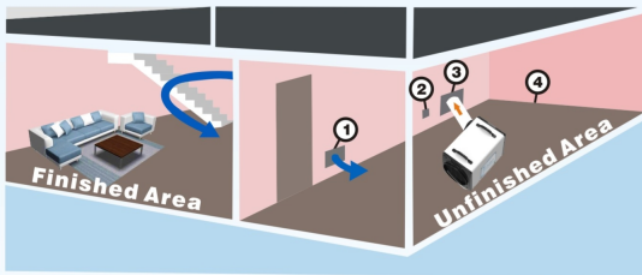
INDUSTRY • RESIDENTIAL HOMES • STORES • RESTORATION

Crawlspace&Basement Dehumidifier>>

HD90 Sentinel Dehumidifier

Applications	Sentinel HD90
Crawlspace	✓
Shops/Bars	✓
Museums/Sports Halls	✓
Water Damage Restoration	✓
Computer Rooms	✓
Basements	✓

Installation of a Sentinel HD90 with a Supply Kit only

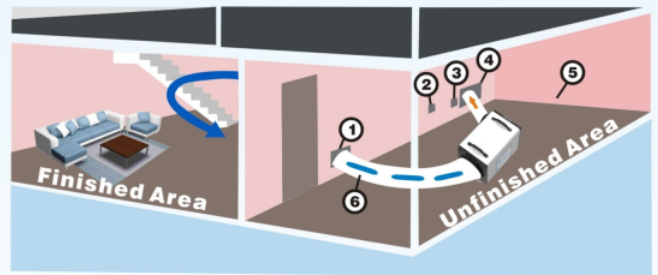


1. Passive Return Vent
2. Remote Control (mounts on opposite Wall in Finished Area, Energize the sensor on Remote Control)
3. Supply Grill
4. Supply/Discharge Duct Work

- Place the Sentinel HD90 in unfinished area of the basement near a drain access.
- Connecting the Duct Tube on Collar, supply the dry air from the dehumidifier to a large and open area in finished section of the basement.
- Place a return grill / passive vent on the other side of the wall that separates the finished and unfinished areas. This will allow circular air flow go through the basement.
- The passive grill will prevent the unfinished room from being placed under a negative pressure and also allow the dehumidifier to focus on keeping the unfinished area dry as well.
- The Remote Control can be used For normal Retome function, to insulate the Noise of Unit, and Also can be used at the Sensor Switch, you can choose the humidity sensor between Unit and remote Control.
- Be sure to keep all doors open in the basement to help with proper air circulation (Bedrooms, Bathrooms, etc.)

Applications	Sentinel HD90
Hotel/Motel	✓
Offices	✓
Laboratories	✓
Museums	✓
Storage Areas	✓
Restaurants	✓

Installation of a Sentinel HD90 with a Supply and Return Kit



1. Return Grill
2. Remote Control (mounts on opposite Wall in Finished Area, Energize the sensor on Remote Control)
3. Optional Wall Mount Dehumidistat (mounts on opposite wall in finished area)
4. Supply Grill
5. Supply/Discharge Duct Work
6. Return/Intake Duct Work

- Place the Sentinel HD90 in unfinished area of the basement near a drain access .
- Connecting the Duct Tube on Collar, supply the dry air from the dehumidifier to a large and open area in finished section of the basement.
- Place a return grill / passive vent on the other side of the wall that separates the finished and unfinished areas. This will allow circular air flow go through the basement.
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PROVEN PERFORMANCE

The are effective solutions to environmental control problems. The **Sentinel HD90** has **CE, ETL and is Energy Star Approved**. With patent for invention protected, the item is in the top range list of **energy efficient** products. As the unique design compared with others, we have the **humidity sensor** in bypass air design which make the short-cycling go away and have **quick access** to pump and main board. Customers can do it by themselves and service become easy. Preassembly makes the installation process simple, thereby it reduces the overall installation and project cost.

This Unit is equipped with a "**Hot Gas**" defrosting system, which ensures a quick and efficient clearing of ice from the coil under a minimum operating temperature of 2°C. **Sentinel HD90** removes maximum 90 pints of water per day (AHAM) while draws only 5.5amps, **Sentinel HD90** Dehumidifiers is one of the **smallest, lightest and most powerful** dehumidifiers on the market. **Sentinel HD90** is leading the industry by introducing **epoxy coated coils**. This new feature will extend the life of the coils, provide protection in corrosive environments and maintain the coil's heat transfer ability over the life of the coil.

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