

crawlspace mold?

structural damage?

mildew?

musty odors?

dust mites?

Powerful, High-Capacity Dehumidification for Large Crawlspace


Santa·Fe™
HC



Studies have shown that as much as 50% of the air in your home comes up from your basement or crawlspace. This air is often higher in moisture content, and carries with it various allergens and musty odors. When conditions linger above 60% relative humidity for extended periods of time, mold, mildew, and bacteria growth is stimulated.

The American Lung Association, American Medical Association, and the EPA recommend maintaining relative humidity level in the 30% - 50% range. Ventilation and air conditioning alone cannot provide the protection offered by a premium dehumidifier like the Sante Fe HC.™ Protecting your family, and your biggest investment, is worth the best.

“APPLICATION-SPECIFIC” DESIGN

The Sante Fe HC was specifically designed for large crawlspaces. The high-capacity (323 cfm) blower on the HC moves air in a way that no small mass-merchant unit can. The HC's horizontal configuration and flow-through design perform exceptionally well in crawlspaces. The optional condensate pump and ducting kits provide the installation flexibility necessary for the most challenging applications. No mass-merchant dehumidifier can perform as efficiently and effectively in large crawl spaces as the Sante Fe HC.

- **High Efficiency** – The high efficiency Sante Fe HC produces over 4.3 pints per kilowatt/hour, far better than most mass merchant dehumidifiers.
- **Large Capacity** – The high capacity Sante Fe HC provides up to 135 pints per day water removal at standard rating conditions*. Large-sized crawlspaces (up to 3200 sq. ft.) are no problem for the Sante Fe HC.
- **Low Temperature Operation** – The HC was engineered for crawlspaces, and the temperature and air flow issues that they present. When many mass-merchant dehumidifiers have stopped removing water, the Sante Fe HC continues to protect your family and your home.
- **Superior Air Filtration** – MERV-11 filtration is standard on the Sante Fe HC, capturing particles (including mold spores) down to 1 micron in size. This superior level of air filtration also keeps the Sante Fe HC working at peak efficiency for longer than other devices with cheaper designs.
- **Optional Equipment** - The engineers at Thermo-Stor designed ducting kits and condensate pumps for use with the Sante Fe HC. These optional kits provide the ultimate in flexibility for your specific installation requirements.

*AHAM standard testing conditions are 80°F and 60% RH.

Large capacity dehumidification



“Our crawlspace was very wet with mold growing on the floor joists and insulation. We experienced complete resolution to the water problem with the Santa Fe HC. Thank you!”

— William, Charlottesville, VA

LARGE CAPACITY DEHUMIDIFICATION

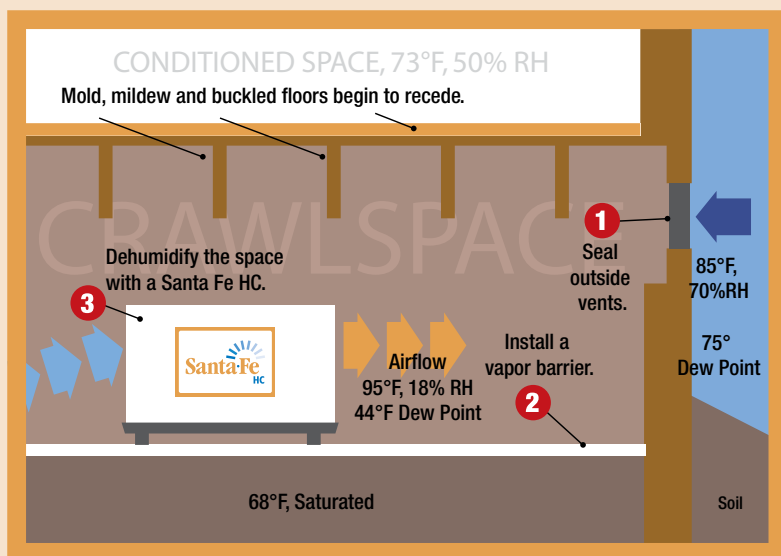
Because basement and crawlspace floors and walls are in contact with the soil, and soil temperatures several feet below the surface remain at a constant temperature of 50°F–60°F. Basement and crawlspace floors and walls tend to remain cool. Since basements and crawlspaces tend to be cool and cool air holds less moisture than warm air, they will have higher relative humidity.

Typically, the closer to ground level, the larger the area, and the damper the environment, the more capacity that will be necessary to dry out the area. Capacity is usually measured in the number of pints of water that a dehumidifier can remove from the air at a given temperature over a given period of time.

Capacities for residential dehumidifiers are measured in pints of water removed per day at standard conditions. Standard conditions are determined by the American Home Appliance Manufacturers (AHAM) and are used because capacity will vary under different conditions. AHAM standard rating conditions are 80°F and 60% RH. The capacity of the Santa Fe HC is 123 pints per day. Most standard residential units range from 20 to 65 pints of water removal per day. However, most basements and crawlspaces are cooler than 80°F and therefore the water removal capacity of the standard residential unit will be diminished significantly.

A large capacity dehumidifier is necessary to ensure that enough moisture is removed at the real-world temperature of your basement or crawlspace to prevent mold, mildew and bacterial growth. The Santa Fe HC is a large-capacity dehumidifier designed for these cooler applications.

installation



SAMPLE CRAWLSPACE INSTALLATION

Ventilation of a crawlspace to control RH only works consistently in an arid climate. In most climates, ventilation can add significant quantities of moisture during humid times.

Building scientists have found that when warm, moist outside air enters a crawlspace through vents, the air cools and dramatically increases the relative humidity of the crawlspace.

Proactive dehumidification of a sealed crawlspace is the only way to ensure desired humidity levels are present.

1. Seal all outside vents to eliminate outside air, which also reduces heating/cooling loads and uncontrolled moisture intake.
2. Install vapor barriers and/or insulation in the proper areas of the crawlspace, including the floor.
3. Condition the crawlspace air with a Santa Fe HC to provide humidity control regardless of outside conditions.

Performance and Technical Specs

Part Number:	4025081
Blower:	320 CFM @ 0.0" WG 305 CFM @ 0.2" WG 285 CFM @ 0.4" WG
Power:	1130 Watts @ 80°F and 60% RH
Supply Voltage:	115 volt – 1phase – 60 Hz
Current Draw:	9.3 AMPS
Energy Factor:	2.15 L/kWh
Operating Temp.:	45°F Min., 95°F Max.
Sized for:	3200 Sq. Ft. - Typical
Minimum Performance at 80°F and 60% RH	
Water Removal:	123 Pints/Day
Efficiency:	4.8 Pints/kWh
Air Filter:	MERV-11
Efficiency:	Standard 65% Efficient, ASHRAE Dust Spot Test
Size:	16" x 20" x 2"
Power Cord:	6', 110-120 VAC, Ground
Drain Connection:	9/16" ID x 8' Direct Gravity Drain Hose

Santa Fe HC Dimensions

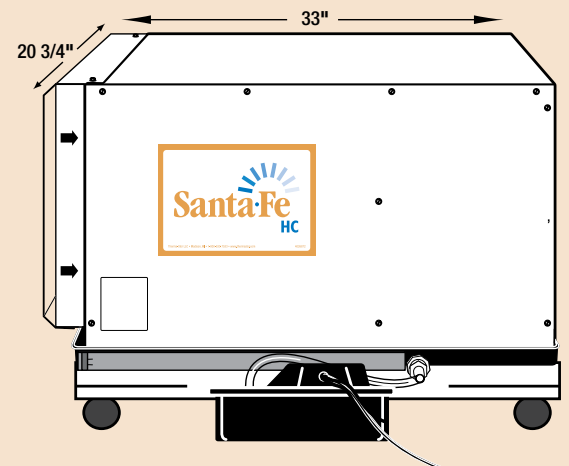
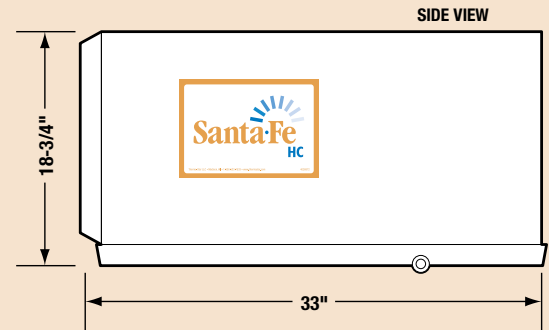
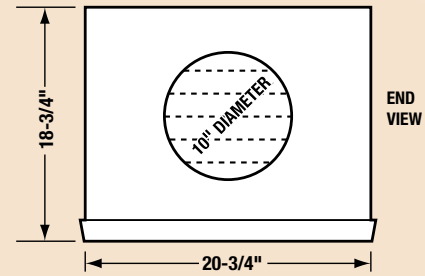
	Unit	Shipping
Width:	33"	39"
Height:	18-3/4"	28-1/2"
Depth:	20-3/4"	25"
Weight:	100 lbs	138 lbs

OPTIONAL ACCESSORIES

4021475	MERV 11 Filter
4027420	MERV 11 4-Pack
4027424	MERV 11 12-Pack
4022220	Pump Kit
4024368	10" Inlet Collar
4026969	10" Flex Duct
4022126	10" Flex Duct (Insulated)
4027431	Register Head 10"
4020126	Register Grill (White)
4020175	Dehumidistat



Santa Fe™
HC



Santa Fe HC with Condensate Pump
Unit must be elevated 4" to drain properly

“ We did a lot of research before we selected the Santa Fe HC model. Since we have installed this into the basement, the moisture levels have reduced and now we have a dry basement and no more musty odors. We have hooked it to a condensate pump that discharges the water outside the basement. I would definitely recommend this model for large basements — it works great. ”

— Anwar, Edison, NJ

Do you know the relative humidity levels in your home?



4026208

The Humidity Alert™ was designed by Therma-Stor to discriminate between occasional periods of high humidity and the prolonged periods that create a risk of unhealthy biological activity. It's a simple, inexpensive device that monitors temperature and relative humidity conditions and records data that is known to contribute to wood rot, mold growth, musty odors and increased pest activity.

EAST TO USE:

1. Place the meter in the desired space.
2. Collect the necessary humidity data.
3. Adjust your Santa Fe dehumidifier to a desired humidity setting.

humidity alert™