

crawlspace mold?

property damage? mildew?

musty odors?

dust mites?

Compact and Powerful Dehumidification for Basements and Crawlspace.

**Santa·Fe**TM
COMPACT



4029900

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 Santa Fe Compact.TM Protecting your family and your biggest investment is worth the best.

“APPLICATION-SPECIFIC” DESIGN

The Santa Fe Compact was specifically designed for crawlspaces. At 12" tall and 12" wide, the Santa Fe Compact can fit where no other dehumidifier can. Innovative features such as integrated vertical or horizontal exhaust outlets offer flexibility even in exceptionally tight spaces, while the optional condensate pump, hang kit, and duct kits facilitate installation in the most challenging applications. No conventional dehumidifier can perform as efficiently and effectively in crawlspaces as the Santa Fe Compact.

- **High Efficiency** – Exceeds ENERGY STAR[®] efficiency requirements.
- **Large Capacity** – The high capacity Santa Fe Compact provides 70 pints per day of water removal at standard rating conditions*. Medium-sized crawlspaces (up to 1600 sq. ft.) are no problem for the Santa Fe Compact.
- **Low Temperature Operation** – The Santa Fe Compact was engineered for crawlspaces and the temperature and air flow issues that they present. When many conventional dehumidifiers have stopped removing water from the air, the Santa Fe Compact keeps on protecting you and your home.
- **Superior Air Filtration** – MERV-8 filtration is standard on the Santa Fe Compact. This superior level of air filtration also keeps the Santa Fe Compact working at peak efficiency for longer than other devices with cheaper designs.
- **Auto Restart** – Santa Fe dehumidifiers will automatically restart at the original setting after a power outage.
- **Optional Equipment** – The engineers at Therma-Stor designed remote ducting kits, hang kits, caster kits, and condensate pumps for use with the Santa Fe Compact. These optional kits provide the ultimate in flexibility for your specific installation requirements.

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



Dehumidification for smaller basements and crawlspaces

Closing foundation vents in a crawlspace is recommended to control humidity.



Mold growth on crawlspace foundation beams.



High humidity in a crawlspace can lead to wood rot and buckled hardwood flooring.



CONSEQUENCES OF HIGH HUMIDITY IN CRAWLSPACES

- Wet crawlspaces contribute to the cupping of wood floors and the deterioration of floor joists, beams, sub-flooring, insulation, and electrical-mechanical systems.
- Excess moisture encourages mold growth on the wood and on any other organic material that is in the crawlspace.
- Crawlspaces are a major source of air infiltration that permeates up into the living area, transmitting odors, saturating structures, and creating an environment conducive to molds and dust mite infestation.

FOUNDATION VENTS

New research indicates that foundation vents do not always expel moisture or keep the crawlspace dry. Rather than removing crawlspace moisture, venting can make the problem worse.

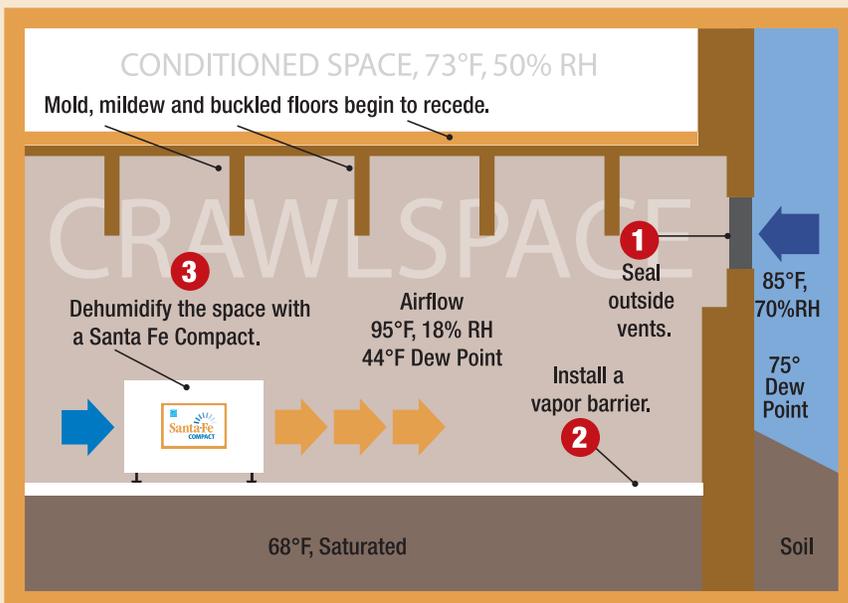
Building scientists have found that when warm, moist outside air enters a crawlspace through vents, the air cools and dramatically increases the relative humidity of the crawlspace.

When the relative humidity reaches 100%, condensation accumulates on the walls, floors, and building components.

Just 100 cfm of 70°F dew point air entering a crawlspace would require the removal of about 10 gallons of water per day!

As a solution to vented crawlspaces where condensation, humidity, and other changes in the atmosphere can leave the space damp and moldy — a closed crawlspace with dehumidification for humidity control is recommended.

installation



FREE STANDING INSTALLATION

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

Depending on the outside weather, as much as 375 pounds of water per day can infiltrate a crawlspace through powered ventilation.

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 over exposed earth.
3. Condition crawlspace air with a Santa Fe Compact to provide humidity control regardless of outside conditions.

Performance and Technical Specs

BASEMENT/CRAWLSPACE DEHUMIDIFICATION

The cooler temperatures in crawlspaces (and basements) create unique humidity control challenges for homeowners.

The earth under the soil in a crawlspace (or under the basement slab) remains at a near constant temperature of 50-60°F year round. The ground keeps the surface soil in a crawlspace (or the slab in a basement) cool. These cool surface temperatures create micro-environments where the relative humidity of the air approaches its saturation point (100%RH) and condensation (or sweating) can occur. The conditions that result support mold/microbial growth and cause musty odors.

Often the only way to maintain the EPA's recommended humidity levels for homes is 50%RH or less year round is with the addition of a high capacity, high efficiency dehumidifier.

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 with conditions. AHAM standard rating conditions are 80°F and 60% RH. The capacity of the Santa Fe Compact is 70 pints per day at these conditions.

The Santa Fe Compact 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 Compact is a dehumidifier designed for these cooler applications.



OPTIONAL ACCESSORIES

4027168	Pre-Filter
4028524	Pre-Filter 12-Pack
4029748	MERV 8 Filter
4030421	MERV 8 Filter 4-Pack + 1 Pre-Filter
4030422	MERV 8 Filter 12-Pack
4030671	MERV 11 Filter
4027418	MERV 11 Filter 4-Pack + 1 Pre-Filter
4030733	MERV 11 Filter 12-Pack
4030113	Pump Kit
4029907	Caster Kit
4029908	Hang Kit
4030203	Supply Duct Kit
4030204	Return Duct Kit
4027415	8" Flex Duct
4020177	8" Flex Duct (Insulated)
4020175	Dehumidistat – Honeywell (120 volt)



Part Number:	4029900
Blower:	190 CFM @ 0.0" WG
Power:	580 Watts @ 80°F and 60% RH
Supply Voltage:	115 volt – 1phase – 60 Hz
Current Draw:	5.10 amps
Energy Factor:	2.37 L/kWh
Operating Temp.:	Between 40°F and 95°F Max
Sized for:	Up to 1600 Sq. Ft. - Typical



Minimum Performance at 80°F and 60% RH

Water Removal:	70 pints/day
Efficiency:	5.0 Pints/kWh
Air Filter:	MERV-8
Efficiency:	Standard 65% Efficient ASHRAE Dust Spot Test
Size:	9" x 11" x 1"
Power Cord:	9', 110-120 VAC, Ground
Drain Connection:	3/4" Female NPT on drain pan
Drain Hose:	5/8" ID x 8'

Santa Fe Compact Dimensions

	Unit	Shipping
Width:	21"	25"
Height:	12"	17"
Depth:	12"	15"
Weight:	55 lbs	65 lbs

HUMIDITY ALERT™

Inexpensive and easy to use.

Monitors temperature and relative humidity. Detects and records periods of high humidity known to contribute to wood rot, mold growth, musty odors, and increased pest activity.



4026208

REMOTE HYGROMETER



4029577

Displays indoor and outdoor temperature, relative humidity, moon phases, time and date.

Wireless sensor with low temperature adaptor included.

CRAWLSPACE ALERT™



4030280

Works remotely with your Santa Fe Dehumidifier to provide a warning light when humidity levels are too high in the crawlspace and will automatically turn off the dehumidifier if the overflow safety switch is tripped.

humidity meters



One of the best Limited Warranties in the industry today –

1 YEAR – All Parts and Labor
5 YEARS – Sealed Refrigeration System



NAHB
NATIONAL ASSOCIATION
OF HOME BUILDERS



Questions? Contact your dealer or call 1-800-533-7533 | www.santa-fe-products.com