



High Efficiency Humidity Control and HEPA Filtration

Keeping your relative humidity at 50% or less assists in the elimination of mold, mildew and dust mites.

Increase Comfort and Reduce Allergens

The Santa Fe Rx will control the moisture in your home for maximum comfort, energy efficiency, and health by maintaining 50% or less relative humidity as recommended by the EPA.

High moisture levels result in physical discomfort, increased air conditioning costs, and possibly serious health issues associated with high humidity. In addition, damage to your home and your home's furnishings can result. Maintaining relative humidity below 50% prevents dust mite infestations, mold and mildew growth, and inhibits the growth of bacteria. Lower relative humidity also reduces the out-gassing of volatile organic compounds – creating a healthier environment in which to live and breathe for you and your family.



Energy Star Listed: Uses only 6.3 amps of electricity, offering as much as \$275 per year in energy savings compared to the conventional dehumidifier. More pints of water per kilowatt of electricity means lower cost of operation.

Large Capacity: This large capacity dehumidifier removes over 86 pints of water per day – enough water removal capacity for areas up to **2200 square feet**.

MERV-11 Filtration: The Santa Fe Series utilizes a blower rather than a propeller fan allowing the use of high-efficiency air filtration for improved indoor air quality. Standard MERV-11 filtration is 65% efficient and captures particles from 1.0 to 3.0 microns in size – resulting in effective filtration of most mold spores.

HEPA Filtration: The Santa Fe Rx is the only dehumidifier with an optional HEPA system for superior air filtration and purification. The HEPA filter is 99.97% efficient at capturing particulate from .3 microns or larger that pass through it.

Carbon Filtration: The optional filter housing may be used to hold activated carbon and potassium permanganate blend filters instead of the HEPA filter.

Finished Cabinet: Designed to be placed in the finished area, the Santa Fe Rx features an attractive and contemporary white matte design which fits any décor and can always be decorated by the owner.

Quiet Operation: The Santa Fe Rx features extra internal insulation for the quietest operation possible, making it the perfect unit for apartments, condominiums, museums, libraries, and schools.

Condensate Pump: The internal condensate pump with 20 feet of drain hose and 15 feet of lift capacity frees you from emptying buckets. Run the hose to a floor drain, sink, or connect it into a sewer line for seamless, consistent water removal.

I had an unhealthy level of humidity in my condo. The central air conditioning was not removing enough moisture. Once I got the Santa Fe Rx the humidity level dropped from 70+ to the 40's throughout the condo. I also purchased the optional filter frame and HEPA grade filter. My health and comfort are much improved. I love the freedom of not having to empty the reservoir – the built in condensate pump is great.

Mrs. McCarter
Millbrook, NY



Eliminating Allergens

Dust mites and mold are the two most common allergens present in higher humidity environments. These allergens do not require water to grow – they only require humidity levels from 65% to 99% at the surface on which they grow.

Dust mites live in upholstered furniture, carpets, and mattresses. They absorb their moisture needs from the air. If the relative humidity is below 50%, according to Dr. Larry Arlien at Wright State University, dust mite infestations will be eliminated. As stated in *Indoor Air Pollution: An Introduction for Health Professionals*:

“A number of factors allow biological agents to grow and be released into the air. Especially important is high relative humidity, which encourages house dust mite populations to increase and allows fungal growth on damp surfaces.”

Molds are fungi. They only require high humidity and an organic-based material on which to feed. It is no surprise that they are plentiful in humid environments. Cooler surfaces create a perfect breeding area for mold because the relative humidity at the surface will be near 100%. The surface may even be wet with condensation.

Mold growth can be eliminated in the home through humidity control that maintains reduced relative humidity levels and prevents cooler surfaces from becoming damp.

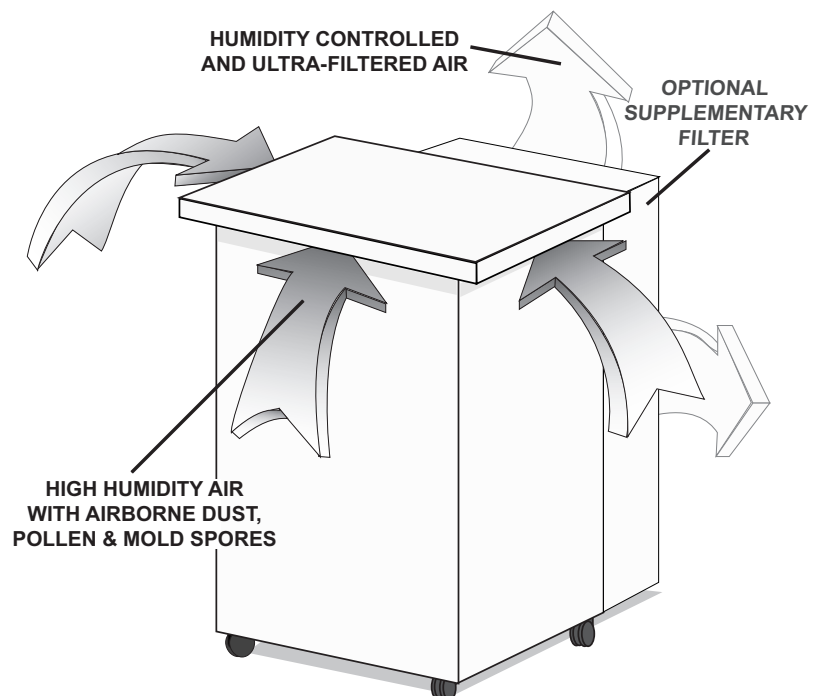
Keeping your relative humidity at 50% or less eliminates mold, mildew and dust mites.

Decorating Ideas and Options

The Sante Fe Rx comes with a white metal top and a white smooth cabinet design. Many decorating options can be used on the Sante Fe Rx cabinet including:

- Painting
- Paneling
- Wallpapering

Your local kitchen or cabinet shop may be able to provide additional decorating options including wood veneer panels for the cabinet, and wood or other laminate choices for the top.



Sante Fe Rx Airflow Diagram

Santa Fe Rx Filtration

Standard air filtration is provided by a pleated polyester and cotton blend media filter located at the air intake at the top of the unit. The efficiency rating of this filter is 65% in the ASHRAE 52-76 Dust Spot Test and MERV-11 in the ASHRAE Dust Spot Test.

The optional HEPA filter is a micro-glass paper mini-pleat filter located in a special housing mounted on the back of the Santa Fe Rx cabinet. The efficiency rating of this filter is 99.97% on the D.O.P. Test.

The special filter housing can be used to hold two 16" x 20" x 3" activated carbon and potassium permanganate blend filters and two 16" x 20" x 1" pleated filters instead of the HEPA filter.

If HEPA filtration is required in addition to activated carbon and potassium permanganate filtration, loose fill carbon and potassium media is available in 5 gallon containers that can be loaded onto the pleats of the pre-filter.

Standard Features

Controlled by a dehumidistat with positive "ON" and "OFF" settings and a variable setting range from 20% to 80% relative humidity	Automatic humidity control
Built-in defrost systems	Automatic sensor shuts unit off at first sign of frost—an energy saving innovation
115 VAC operation with factory installed 6' power cord	Plugs into a standard grounded outlet
Fan control	Blower switch permits continuous blower operation for filtration, independent of dehumidification
Internal condensate pump with 20' of drain hose and 15' of lift	No buckets to empty
MERV-11 filtration	65% efficient pleated filter 100% synthetic fibers 1-3 microns (adequate for most mold spores)
Optional HEPA filtration	99.97% efficient pleated filter Micro glass paper mini-pleats 0.3-1.0 microns for aerosols and micro-organism
Optional carbon filtration	The special filter housing can hold two activated carbon and potassium permanganate blend filters and two pleated filters instead of the HEPA filter. If HEPA filtration is required in addition to activated carbon and potassium permanganate filtration, loose fill carbon and potassium media is available and can be loaded onto the pleats of the standard filter
High capacity unit	86 pints/day at 80°F and 60% RH
Equipped with four casters	Easy portability
5-year warranty	1st year: covers all parts and labor (sealed system included) 2nd-5th years: covers compressor, condenser, and evaporator

Do You Know the Relative Humidity Levels in Your Home?

A **hygrometer** can provide the information you need to determine whether you have a humidity problem. (Picture on back.)



Santa Fe Rx Performance and Technical Specifications

Part Number:	4023673
Blower:	230 CFM @ 0 IWG
Kilowatts:	.68 (80°F, 60% RH)
Supply Voltage:	115 volt – 1 phase - 60 Hz
Amps:	6.3
Energy Factor:	2.5

Water Removal Performance

Intake Air:	80°F, 60% RH
Water Removal:	86 Pints/Day
Pints/KWH:	5.3

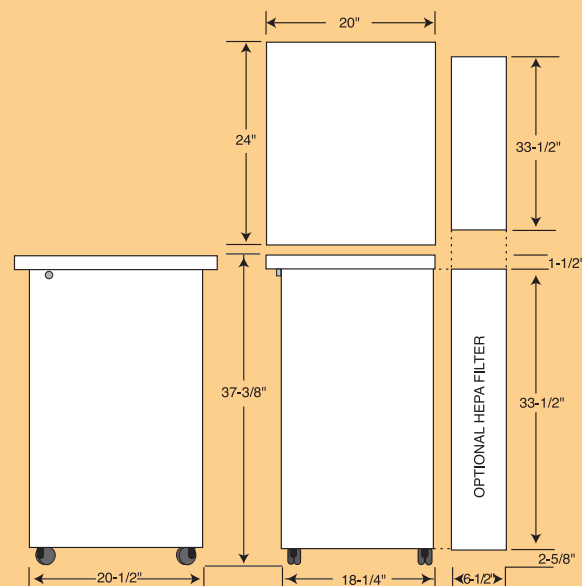
Physical Dimensions

Width:	23"
Height:	37-1/2"
Depth:	20"
Weight:	130 lbs

w/Secondary Filter Housing

Width:	23"
Height:	37-1/2"
Depth:	24-5/8"

CFM = Cubic Feet per Minute
IWG = Inches of Water Gauge



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Discovering the Relative Humidity in Your Home

Humidity levels in your home may be too high resulting in discomfort, musty odors, or damage to possessions or the structure due to mold growth. A **hygrometer** can provide the information you need to determine whether you have a humidity problem.



A hygrometer measures relative humidity. It is an inexpensive, easy-to-use instrument, sometimes called a humidity sensor or relative humidity indicator. Using a hygrometer is the best way to learn about and understand your indoor environment. This device allows you to evaluate the relative humidity levels in your home.

Understanding temperature is also important in controlling relative humidity. Warmer air can hold more moisture and cooler air holds less moisture. Therefore, a temperature display is desirable as well.

Proper humidity levels make your home more comfortable and healthy. Controlling humidity also helps protect your home and possessions from moisture damage. A properly sized dehumidifier can control humidity problems.

Upon purchase of a Santa Fe dehumidifier and receipt of your warranty card, Therma-Stor, LLC will send you a free hygrometer to monitor the temperature and humidity levels in your home.

Optional Accessories for the Sante Fe Rx

Part No.	Description
4023869	Secondary Filter Housing
4024145	HEPA Filter 99.97% Efficient 20" x 32" x 4"
4022489	95% Efficient Filter 16" x 20" x 4" (Use 2) MERV-14
4023612	Carbon Filter 16" x 20" x 3" (Uses 2 with pleated filters)
4024264	Pleated Filter 16" x 20" x 1" (Uses 2 with carbon filters)
4021475	Standard Filter 65% Efficient 16" x 20" x 2" MERV-11
4024528	Bulk Activated Carbon Granules

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