Santa Fe
ULTRA EFFICIENT DEHUMIDIFIER

High-Capacity Moisture Removal and Low-Temperature Operation

Controls Humidity and Reduces Musty Odors

The Santa Fe dehumidifier removes odor causing moisture and maintains EPA recommended relative humidity of 45 to 50%.

Transform Your Basement

The Santa Fe Dehumidifier removes odor-causing moisture and maintains EPA recommended relative humidity levels of 45 to 50% – ideal conditions for an odor free storage space or comfortable living space for you and your family.

If you store anything of value in your basement or if you use your basement as living space, it is important to keep the moisture levels low. Relative humidity levels rising above 70% stimulate the growth of mold, mildew, bacteria and other biological allergens, which generate musty basement odors. These conditions must also be prevented in microenvironments such as underneath carpeting, rugs, or storage boxes. The Santa Fe is the most energy-efficient dehumidifier in the industry and offers time-tested technology to maintain 50% or less relative humidity in your home as recommended by the EPA, American Lung Association, and American Medical Association.

Energy Star Listed: Uses only 6.8 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 high capacity basement dehumidifier removes over 100 pints of water per day - enough water removal capacity for areas up to **2500 square feet**.

Low Temp Operation: Powerful enough to control humidity even in the cooler environments of basements. Dehumidifiers are rated at 80°F and 60% relative humidity. At the cooler, real-life temperatures of a basement, the capacity of conventional dehumidifiers drops dramatically.

At temperatures below 65°F, frost forms on the coils of a conventional unit and causes the unit to ice-up. Frost cuts down on air circulation so the unit does not remove as much moisture from the air. Some units have automatic defrost but remove minimal quantities of water in cooler conditions. However, even at regular basement conditions, the Santa Fe removes more pints of water per day than most dehumidifiers.

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.

Optional Ductability: Attaching ductwork to the unit promotes air circulation throughout the basement, allowing for placement of the dehumidifier in a remote location such as the mechanical room.

> Humidity was so high in our basement that we had mold on the walls, which contributed to our child's health problems. Once the dehumidifier was installed absolutely all mold growth stopped and our child's health improved – respiratory ailments have disappeared.

Mary
Burre, MA

Why is My Basement Damp and Musty?

Basements are naturally cooler than the rest of the house, which makes them subject to high humidity. Because the basement floors and walls are in contact with the soil, and soil temperatures several feet below the surface remain at a constant temperature of 50°-60°F or less, basement floors and walls tend to remain cool. Also, basements generally do not have windows and so there is no solar heat gain. Therefore, since basements tend to be cool and cool air holds less moisture than warm air, basements will have higher relative humidity.

Moisture is the most common problem in basements—either entering from outside sources or being produced inside by the occupants' activities. The soil around the walls can contain a large amount of moisture from surface water that is seeping down or from a high water table. Water can find its way inside by gravity or through a crack or flaw in the water protection layer of the foundation. Water can also be pulled up by a "wicking action" or "pushed up" by hydrostatic pressure from the soil under the walls or floor.

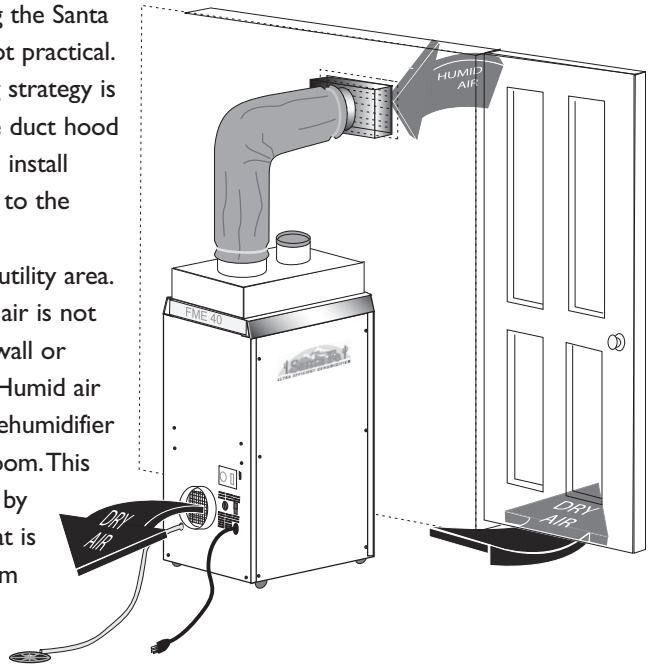
Recommendations

High humidity levels in the basement encourage rust, mildew, mold and odors; and the moisture can damage cameras, computers and furniture. Additional risk is added where there are allergies to mold or a family member with asthma. To protect your family and the investment you have made in a finished basement, maintain 50% relative humidity as recommended by the EPA.

The Santa Fe Series of dehumidifiers are designed to operate in the cooler temperatures of a basement and at real world conditions of 60°F and 60% relative humidity, the unit would still remove 64 pints of water per day.

Remote Duct Installation

A duct kit is available for remote installations when an area requires humidity control but locating the Santa Fe in that area is not practical. One simple ducting strategy is to attach the intake duct hood to the Santa Fe and install ducting to draw air to the Santa Fe. Discharge dehumidified air in utility area. Be certain that the air is not directed toward a wall or other obstruction. Humid air is drawn into the dehumidifier from an adjacent room. This air will be replaced by dehumidified air that is drawn into the room through wall and ceiling cavities and the undercut of doors. Since the dehumidified air is slightly warmer, discharging this air into the utility area allows some of the heat to be absorbed before it is drawn into the finished area. A remote dehumidistat may be desired in some installations.

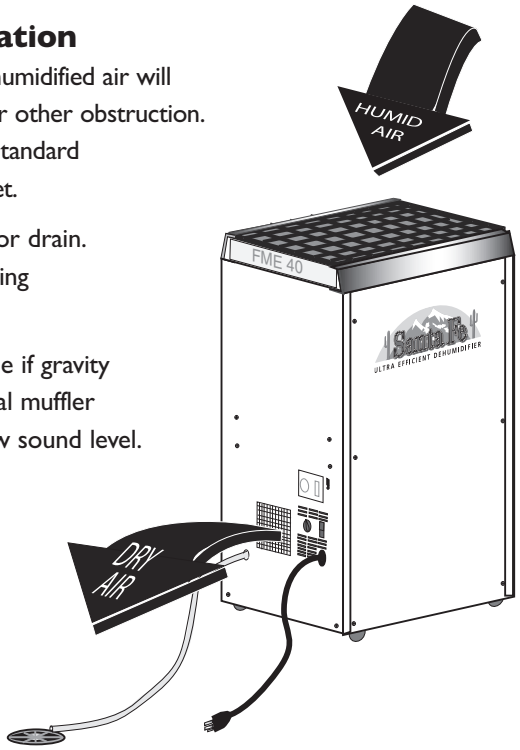


Free Standing Installation

Position the Santa Fe so the dehumidified air will not be directed toward a wall or other obstruction. Simply plug the Santa Fe into a standard 15 amp, 110 volt grounded outlet.

Direct gravity drain hose to floor drain. Drain hose can be extended using 1/2 inch pvc pipe.

Condensate pump kit is available if gravity drain is not possible. An optional muffler kit is available to reduce air flow sound level.



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
Low-temperature operation. Continues to remove humidity down to 55°F	Will not freeze up in normal basement conditions
115 VAC operation with factory installed 6' power cord	Plugs into a standard grounded outlet
Gravity floor drain with 8' of drain hose	No buckets to empty
MERV-11 filtration	65% efficient pleated filter 100% synthetic fibers 1 - 3 microns (adequate for most mold spores)
High capacity unit	100 pints/day at 80°F and 60% relative humidity
Equipped with four casters	Easy portability
Optional ductability	Promotes air distribution or allows remote operation
Optional condensate pump kit	For applications where a gravity drain isn't possible
Optional remote control	Allows remote operation
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®
ULTRA EFFICIENT DEHUMIDIFIER

Sante Fe Performance and Technical Specifications

Part Number:	4021400
Blower:	275 CFM @ 0 IWG
Kilowatts:	.61 (80°F, 60% RH)
Supply Voltage:	115 volt – 1 phase - 60 Hz
Amps:	6.8
Energy Factor:	2.75

Water Removal Performance

Intake Air:	80°F, 60% RH
Water Removal:	100 Pints/Day
Pints/KWH:	5.3

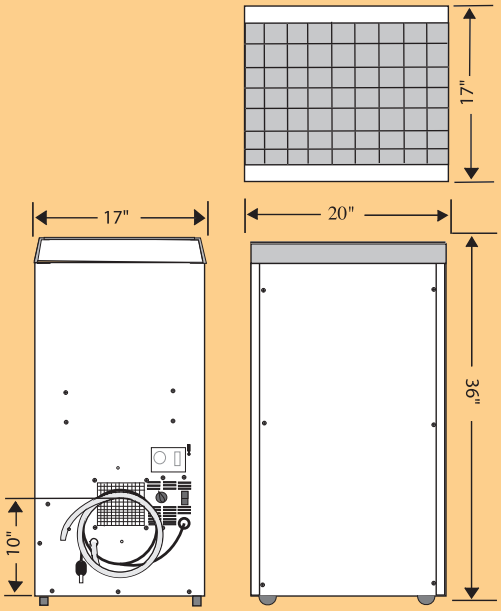
Product Dimensions

Width:	20"
Height:	36"
Depth:	17"
Weight:	110 lbs

Shipping Dimensions

Width:	28"
Height:	45"
Depth:	24"
Weight:	127 lbs

CFM = cubic feet per minute
IWG = inches of water gauge



CHANGE FOR THE BETTER WITH ENERGY STAR

ETL LISTED INTERTEK C US

I had a smelly, musty basement with 70-80% relative humidity. Since we installed the Santa Fe my basement is much drier and smells normal – no more damp, musty smell! No more mold problem! My relative humidity averages about 50-53% now.

Rob
Rocky River, OH

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

Part No.	Description
4021453	Santa Fe Duct Kit: 8" and 6" return and 8" supply collar
4020623	8" Supply collar
4022220	Condensate Pump Kit: 3/8" ID x 20' long hose with 15' lift, pump, mounting bracket*
4022561	Muffler Kit*
4020175	Honeywell Dehumidistat (Professional Installation Required)
4021468	Black foam prefilter
4021475	Standard filter (16" x 20" x 2") MERV-11

**The Muffler Kit and Condensate Pump Kit may be used together, but the pump will not be able to be mounted to the unit.*

Ocean State Air Solutions, Inc.
Portsmouth, RI 02871
(401) 293-0422 or Toll Free (866) 865-0425
Email: info@OceanStateAir.com
Web Site: www.OceanStateAir.com

Therma-Stor® LLC
P. O. Box 8680
Madison, WI 53708
Phone 608-222-5301
Fax 608-222-1447
Toll-Free 1-800-533-7533
www.thermastor.com
sales@thermastor.com

10/06 TS-343