

# HUMIDEX Moisture Control & Indoor Air Quality

## Moisture Control

HUMIDEX expels moist, polluted air, which is replaced by fresher, warmer, drier air. This airflow draws in surface moisture, ventilating the entire area and drying out the structure.

As a result :

- **Reduction in mold and musty odors**
- **Reduction in stagnant air**
- **Reduction in costly structural damage**
- **Reduction in window condensation**

## Indoor Air Quality

A home air exchange occurs as the polluted moist air is replaced with fresh outdoor replenishment air coming from the upstairs.

As a result there is improved indoor air quality, as well as:

- **Expulsion of trapped gases, chemicals and biological contaminants, especially radon**
- **Creates a healthy air exchange 6-10 times a day**
- **Reduction in allergens and respiratory ailments**
- **Reduction in mites, roaches and general infestation**



- One Year Performance Guarantee
- 10 Year Parts Warranty
- Patented technology
- Ventilates entire home
- Pennies to run
- No filters to clean or water to empty
- No hot, noisy motors
- Clean, neat installation



Features	HUMIDEX	Dehumidifier
Maintenance Free	<b>YES</b>	<b>NO</b>
Energy Efficient	<b>YES</b>	<b>NO</b>
High Capacity	<b>YES</b>	<b>NO</b>
Safe to Operate	<b>YES</b>	<b>NO</b>

**HUMIDEX Saves 90% on electric bills over conventional dehumidifiers**

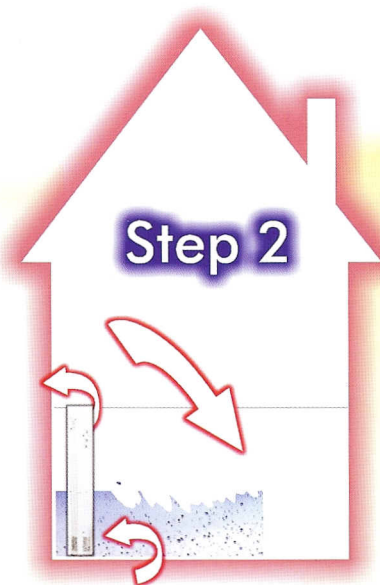


# How HUMIDEX Works

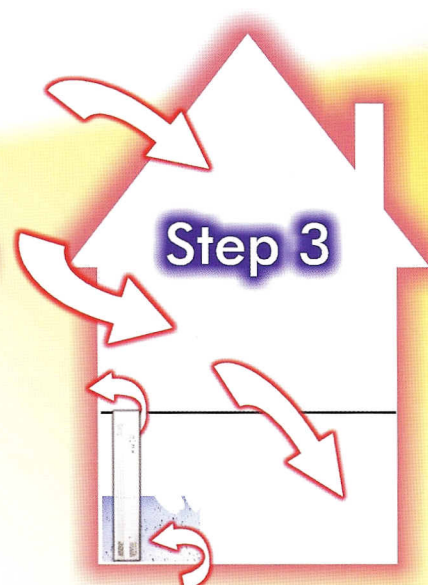
**Humidex is a patented, state-of-the-art, ventilation and moisture control unit that expels moist, polluted, stagnant air from your home and improves indoor air quality.**



Moisture and pollutants saturate low points in the house. A powerful quiet fan draws in stale air and expels it outside.

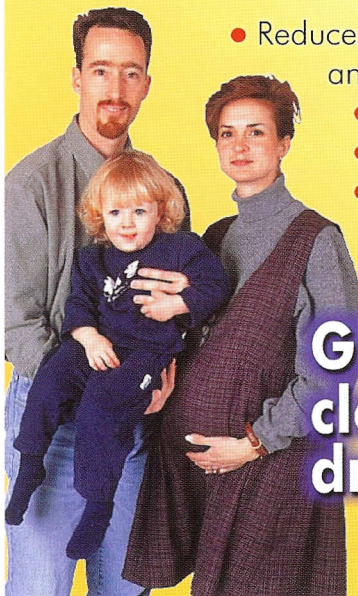


Fresh drier air flows downward replacing the damp contaminated expelled air.



Airflow dries out structure, raises surface temperature and reduces moisture saturation.

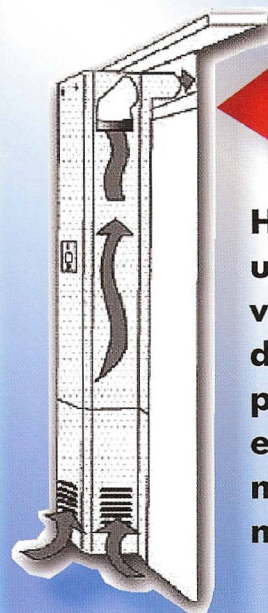
## Net Results



- Reduces Molds, Musty Odors and Moisture Problems
- Up to 10 Air Exchanges a Day
- Improves Indoor Air Quality
- Reduces Structural Damage

**Give your family, cleaner, healthier, drier air.**

## Clean Install



**Humidex uses a small 6" duct, vented like a clothes dryer. Moisture & pollutants are expelled 24/7, for maintenance free moisture control.**

# Moisture Control & Improved Living

Water molecules, the sustenance of life, can be harmful in a home when in excess and unventilated. The typical family produces a lot of moisture indoors (washing, showers, cooking, just breathing, etc.) and it can be difficult to reduce the level.

Cool, moist air will gravitate downwards to the lowest point in a home (often that being the basement). When homes do not have proper ventilation the indoor moisture has nowhere to go: it will then stagnate and saturate the structure.



## PROBLEMS

The combination of *excess moisture and the lack of ventilation*, can affect the livability and value of the home.

- Moist, stagnant air is a source of nourishment for *mold growth*.
- *Mildew* odors are an outgrowth of mold spores and indicate molds are growing.
- Moisture saturates into the structure and causes *wood rot, buckling, rust*, etc.
- Moisture that has nowhere to go will cause *discomfort*.
- Moisture will trap chemical and biological contaminants, gases; referred to as the *Sick Home Syndrome*.
- Moisture will *condense on windows and doors*.

Mold and indoor air quality are the dominant health and home building issues that are constantly in the news media, subjected to intense legislative review and a lucrative opportunity for lawyers. The problem of excess moisture is everywhere, and getting worse. **The EPA is urging all homes to have adequate ventilation and reduce moisture levels.** Excess moisture is not just uncomfortable but can also be unhealthy and destructive. These are critical issues for home owners that can no longer be ignored.

## HOW HUMIDEX WORKS

Until now the recommended course of action was a conventional dehumidifier or a costly air exchange system costing thousands. Unlike those energy guzzling, noisy, smelly dehumidifiers that recycle the same air and do not remove odors, Humidex will ventilate the entire basement and "Give your home a breath of fresh air!"

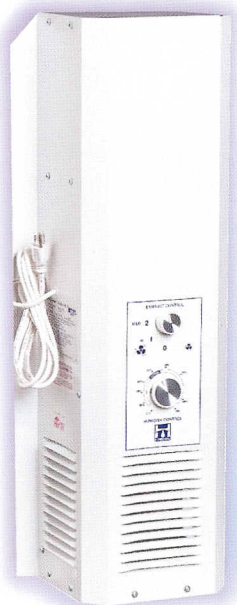
**Humidex's patented ventilation is designed to pull the moisture from where it accumulates, maximize the airflow, expel the moist air to the outside and replenish it with relatively warmer, fresher, drier air from upstairs. It is an all year round moisture control and provides ventilation for improved indoor air quality.**

The unit is aesthetically pleasing, quiet and installed in the lowest part of a house. A quiet, powerful fan in the unit draws the moist surface air in through the bottom vents and then expels it out of the house through a 6" duct. The humidistat control in the unit measures the relative humidity of the air flowing out. When the humidity drops to the set level the unit will decrease the flow of air to a minimum. The airflow will draw in the surface moisture and effectively "dry out" the damp structure. By allowing for the replenishment air to come from upstairs, Humidex creates an air exchange approximately 6-10 times a day, and expels gases, toxins and contaminants that are trapped in the air.

- In summer with air conditioning running, the replenishment air is dehumidified, which will assist in the drying out process. When there is no air conditioning the air upstairs is warmer and will raise the dew point downstairs as it comes down. The raising of the dew point will reduce condensation.
- In the winter, the unit will monitor humidity and run at a lower speed to keep a continuous level of ventilation going. The operation of Humidex in the winter will eliminate window condensation and make heating the basement less costly, as cool damp air is harder to heat up.

## HOW HUMIDEX REDUCES MOLD GROWTH AND MOISTURE PROBLEMS

- Expels moist air and replaces it with a drier fresher and warmer air.
- Designed to effectively draw in the maximum amount of cool moist air by focusing in on the low point of the structure.
- Reduces indoor air moisture levels which nurture mold growth, by working at a high capacity until the relative humidity drops and then goes to a low speed. Unit works 24/7 for year round humidity control.
- The warmer replenishment air from upstairs raises the surface temperature and the dew point. As a result, the unit reduces condensation that forms when moist air hits a cold surface.
- Increases ventilation that pulls moisture away from mold colonies. Stagnant, damp air is a major contributing factor to mold activity. The unit is constantly moving the air reducing the nourishment that molds need to thrive on.
- Humidex is drying out the structure over time.
  - 1 - Strong air flow draws in surface moisture.
  - 2 - Moisture in the walls comes to the surface, as water goes to the driest point.
  - 3 - The new surface moisture is subsequently drawn into the Humidex and expelled.
- One unit controls humidity in the entire level. When properly vented, the air will not stagnate in remote areas.
  - The flow of air out and the replenishment from upstairs will reduce condensation in the upper levels as well.



## Beats Conventional Dehumidifiers

Dehumidifiers will not ventilate or exchange air. The air is still the same polluted stagnant air as before. It will not pull the air from areas remotely distanced from the machine. This allows for the moist air to stagnate and nurture molds or mildew where the dehumidifier's range cannot reach.

