



TRANE

It's Hard To Stop A Trane.

Indoor Air Quality



IR Ingersoll Rand

A whole lot of fresh.

Trane FreshEffects™ Energy Recovery Ventilator provides a whole-house solution for fresh air ventilation. Trane FreshEffects exhausts stale indoor air and brings in fresh, preconditioned, outdoor air, so your home can be a cleaner, more enjoyable place to live. Not only that, Trane FreshEffects also dilutes the level of odors, chemical vapors and naturally occurring gases that become trapped in tightly sealed homes. Plus, with its quiet operation and industry leading warranty, you can count on fresh air from Trane FreshEffects for years to come.

- Constantly delivers fresh air while removing stale indoor air regardless of HVAC system operation
- IAQ filter included
- Ideal for homes with children
- Three sizes to fit all homes up to 4,500 sq. ft.

TRANE FRESHEFFECTS™



Flexible Mounting for easy installation in the attic, garage or basement, in virtually any position with minimal retrofitting required.

High Efficiency Crossflow Energy Transfer Core recovers heat and moisture from the outgoing air during cold weather. During hot, humid weather, it pre-cools and dehumidifies incoming air.

Slide-Out Filter allows easy access for quick cleaning using an ordinary household vacuum cleaner.



Powder-Painted Cabinet for a smooth, durable, high-gloss appliance-like finish.

High-Performance Motor is engineered with permanently lubricated bearings for low maintenance and longer motor life.



Adjustable Control provides automatic timed ventilation, plus manual control for more ventilation if needed. Press the fan icon on the FreshEffects control to adjust runtime percentage per hour.

May also be controlled with Trane Nexia™-enabled connected controls.

A value ventilation option with Intelligent Logic

The EnviroWise™ QF130V inline ventilator offers a cost effective mechanical fresh air solution that controls humidity and temperature. The QF130V has a full ECM motor that makes installation fast and easy, with no balancing dampers required. The ECM motor allows for adjustable airflow to meet the ventilation requirements for homes up to 3500 sq. ft. The installer dials in the quantity (CFM) of fresh air needed and sets the desired limits for outside humidity and temperature, and the QF130V is ready. A 24V relay is included with the unit and allows the flexibility of controlling the QF130V from a wall mounted thermostat..

QF130V VENTILATOR



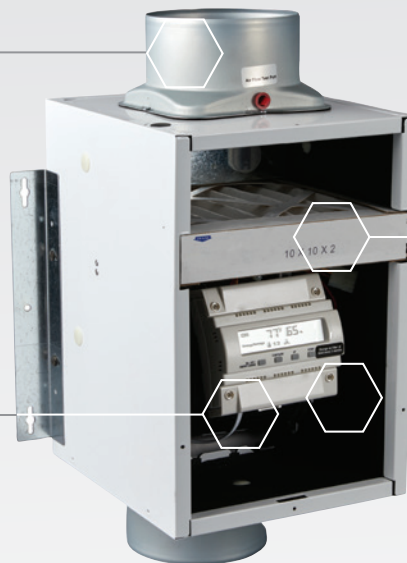
62.2 Compliant Ventilation 62.2 Compliant Ventilation with adjustable airflow from 30 to 130 cfm to meet ventilation codes for all size homes.

Supply in-line ventilation positively pressurizes home and helps to mitigate uncontrolled infiltration. Can be interlocked with system fan for even whole home air distribution

Full ECM Motor with Intelligent Logic Controller. Quiet low speed motor means no noise objections.

MERV 8 filter included for improved indoor air quality. Optional heater available for extreme cold climates.

On-board LCD "logic" controller allows for customized set-up depending on climate conditions. High / low temp and high humidity lock out options with timed sampling to ensure minimum ventilation without excessive energy use.



Optional 24V functionality with our Nexia™ enabled thermostats allows ventilation control from your smart phone or computer.

What is relative humidity and how does it impact my home?

As the outside temperature drops, so does the relative humidity inside your home which means less moisture and drier air. This chart suggests appropriate indoor relative humidity settings that a Trane humidifier can help achieve in your home, bringing you greater comfort and welcome relief from dryness.



Outdoor Temperature (°F)	Indoor Relative Humidity
+40°	45%
+30°	40%
+20°	35%
+10°	30%
0°	25%
-10°	20%
-20°	15%

Relative humidity settings are based on double-pane windows or single-pane windows with storm windows. These settings reduce the likelihood of condensation forming on the windows inside a home.

Recommended Gallons of Humidity Per Day

Humidifier Sizing Chart (8' Ceilings)			
1000 ft ²	4.3	8.6	12.7
1500 ft ²	6.4	12.8	19.1
2000 ft ²	8.5	17.0	25.5
2500 ft ²	10.6	21.3	31.8
3000 ft ²	12.7	25.4	38.1
4000 ft ²	17.0	34.0	51.0
5000 ft ²	21.2	42.6	63.6
Structure Tightness	Tight	Average	Loose

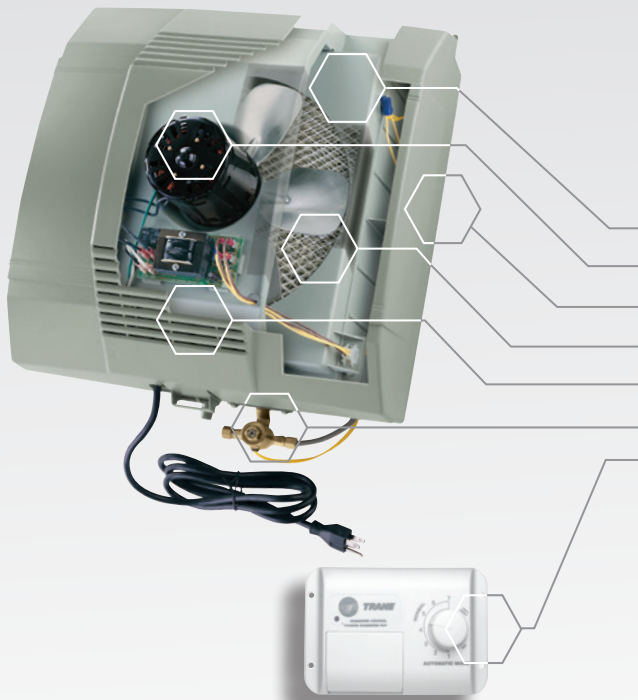
A family of four will add two gallons of humidity per day through everyday activities like cooking, bathing and washing.

Source: AHRI Air Conditioning, Heating, and Refrigeration Institute GPD = Gallons Per Day Guideline F 2008

EVAPORATIVE HUMIDIFIERS



THUMD500, THUMD300, THUMD200

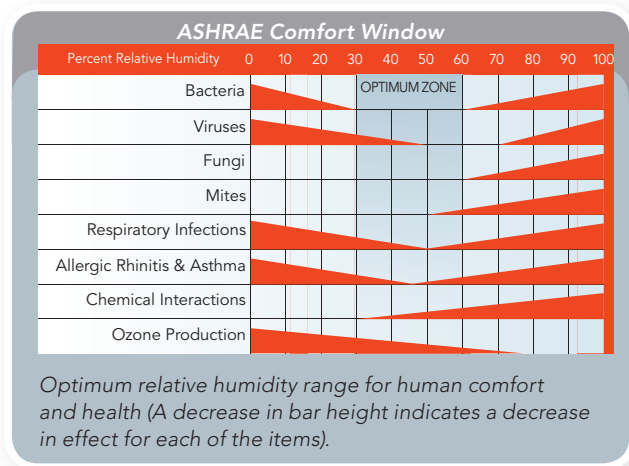


	Power	Large Bypass	Small Bypass
Flow-Through Design	•	•	•
Built-In Fan	•		
Durable, Rust-Resistant Housing	•	•	•
Replaceable Pad	•	•	•
Bypass Damper		•	•
Controlled Moisture Distribution	•	•	•
Automatic Control	•	•	
Manual Control			•
Outdoor Sensor Option	•	•	
Evaporative Capacity (gallons per day)	18	16.8	12
Warranty Protection	Five-Year Limited Warranty On Functional Parts With Registration*		

* Registered Limited Warranty terms are available when you register within 60 days of installation. You can register online at Trane.com or by phone at 800-554-6413, otherwise Trane's Base Limited Warranty terms will apply. Base Limited Warranty information on specific products can be found on Trane.com.

Total home humidity control.

Trane total home humidifiers add an important element of comfort to your indoor environment. Your air may be at the perfect temperature. It may be clean by using an efficient filter or air cleaner. However, without the proper humidity levels, it's not as comfortable as it could be. During winter months, or in dry climates, the air in your home will dry out from running your heating system. A Trane total home humidifier restores moisture levels to the air in your home, increasing your comfort while protecting your belongings and your family's health.



Source: "Criteria for Human Exposure to Humidity in Occupied Buildings"-Sterling, et al and other ASHRAE Studies.

Why is indoor humidity important?

Having the optimum amount of humidity in your indoor air can impact your health. Either too much or too little can lead to the rise of unhealthy airborne particulates.

Features include fully insulated door, easy to open latches, inside cabinet insulation to prevent condensation on filter and a low profile painted cabinet.

STEAM HUMIDIFIERS



EHUMD800, EHUMD800LC*

*120V application for low conductivity water

Electrode Type Steam Canister means fast, easy, low cost maintenance.*

Varying Capacities In Both Units to satisfy any application from 11.5 gallons per day to 34.6 gallons per day.

Automatic Shut Down after 72 hours of inactivity; unit will drain to eliminate standing water.

Easy Mounting Flexibility to your existing duct work or can be remotely mounted.

*Replace once a year



Choose Precise Relative Humidity % Settings

based on your needs and outdoor conditions. Works with Trane Nexia™-enabled controls without the need for additional controls.

Humidity "On Demand" uses your current system blower to distribute humidified air throughout your home without a call for heating from your furnace or heat pump.

Five-Year Standard Warranty includes all functional Parts. Extended Warranty available.

All Inclusive Package means there is nothing else to purchase. Includes manual humidistat and blower relay. Nexia-enabled control is optional.

Technologically advanced cleaning. Amazingly enhanced air.

Introducing Trane CleanEffects™, the patented whole-house air filtration from a recognized industry leader. Designed from the ground up to clean the air like nothing before, CleanEffects makes the air in your home feel cleaner and fresher than you thought possible.



The Asthma and Allergy Foundation of America (AAFA) and Allergy Standards Limited (ASL) has announced that the CleanEffects™ whole home air cleaner from

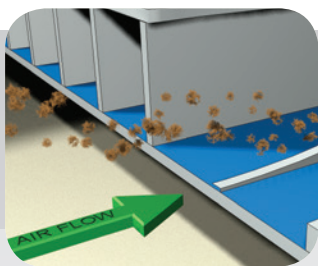
Trane, has earned the **asthma & allergy friendly®** Certification. The asthma & allergy friendly Certification Program, an independent program administered in the United States by AAFA with their partner ASL, helps consumers identify products more suitable for people with asthma and allergies. To receive the certification, the Trane CleanEffects was independently tested and required to meet benchmark standards as prescribed by ASL and AAFA based on industry leading medical and scientific research in health issues and indoor air pollution.

AIR FILTRATION

CLEANEFFECTS™



- Removes up to an incredible 99.98% of allergens from filtered air.
- Traps particles as small as .1 micron in size.
- Up to 100 times more effective than a standard 1" filter.
- Can reduce your need to dust by up to 50%.
- Performance verified by leading third party experts in the field of environmental and health sciences.
- 2015 tests performed by an independent 3rd party demonstrated that Clean Effects removed 99.9% of Influenza A virus from an inside space and duct in a 30 min period.*



TRANE CLEAN EFFECTS™



Sizing options available in seven different cabinets sizes to match your Trane system.

Pre-Filter captures larger particles and extends the collection cell cleaning interval.

Power Door provides easy access for cleaning. The front panel displays power indicator and filter status lights. Safety interlocks power down the system if the door is opened while CleanEffects™ is on.



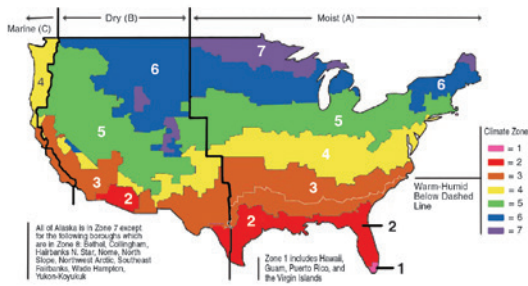
Painted Sheet Metal Cabinet with heavy 18-gauge steel provides attractive and durable protection for electronics and filter components.

Reusable Collection Cells are precisely engineered to capture particles down to .1 micron, while still remaining easy to clean. Simply vacuum once or twice a year to make them like new.

Field Charger charges incoming particles so they adhere to the collection cells. This patented process is what allows CleanEffects to remove up to 99.98% of particles down to .1 micron that pass through it.

* As reported by airmid health group ltd. in ASR document ASCR092142 dated 12/4/2015

Envirowise 70V is a unique solution for homes.



ENVIROWISE 70V DRY™ VENTILATING DEHUMIDIFIER

The Envirowise 70V Dry Ventilating Dehumidifier may be ducted with 100% ventilation air, mixed with indoor air, or used as a ducted or stand-alone dehumidifier. This ventilation compliant ventilator is sized to ventilate up to a 3,000 sq.ft. homes and will remove excess moisture from the outside air before it enters the home. This improves indoor comfort without wasting energy by using the HVAC system to overcool the space.

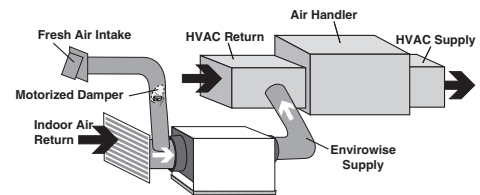
- Controlled Mechanical Ventilation for humid climates, especially Climate Zones 1, 2 and 3.
- Automatically turns on compressor when entering air is above enthalpy set-point based on climate setting using on-board sensor.
- Up to 70 pints / per day for dehumidification or up to 30 grains of moisture / lb. of outside air for ventilation.



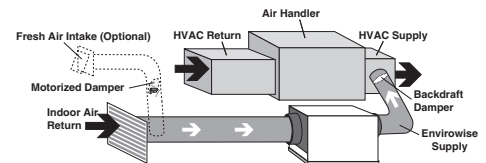
Optional dedicated D30 control or use one of our Nexia™ enabled Thermostats to control ventilation or dehumidification.

The Envirowise 70V can also be used as a whole home dehumidifier without ventilation. With a compact unit designed to fit in tight low-clearance applications and sized to handle up to 1,800 sq. ft., it is ideal for condos or apartment applications. The unit can be ducted into the HVAC system, ducted separately using central grilles, or used in a freestanding application such as basements or crawl spaces. The on-board control enables the unit to operate by just plugging it in to a 120V outlet and providing an adequate drain.

Indirect Method – Return Mix



Attic or Conditioned Mechanical Room Installation - Dedicated Envirowise Return to HVAC Supply



Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a \$14 billion global business committed to a world of sustainable progress and enduring results.



We Encourage Professionalism



Through Technician Certification by NATE