



Friedrich PlusOne HumidiDry

An Innovation in Reliability

Friedrich PlusOne® HumidiDry® is a standout technology that provides superior comfort through a more reliable approach to dehumidification compared to other packaged rooftop units.

Our unique approach to dehumidification uses a fan motor to vary the hot gas. HumidiDry operates at a lower speed on first-stage cooling when in the reheat mode and when operating in occupied fan mode—saving energy, enhancing performance and increasing comfort.



THE HUMIDIDRY DIFFERENCE

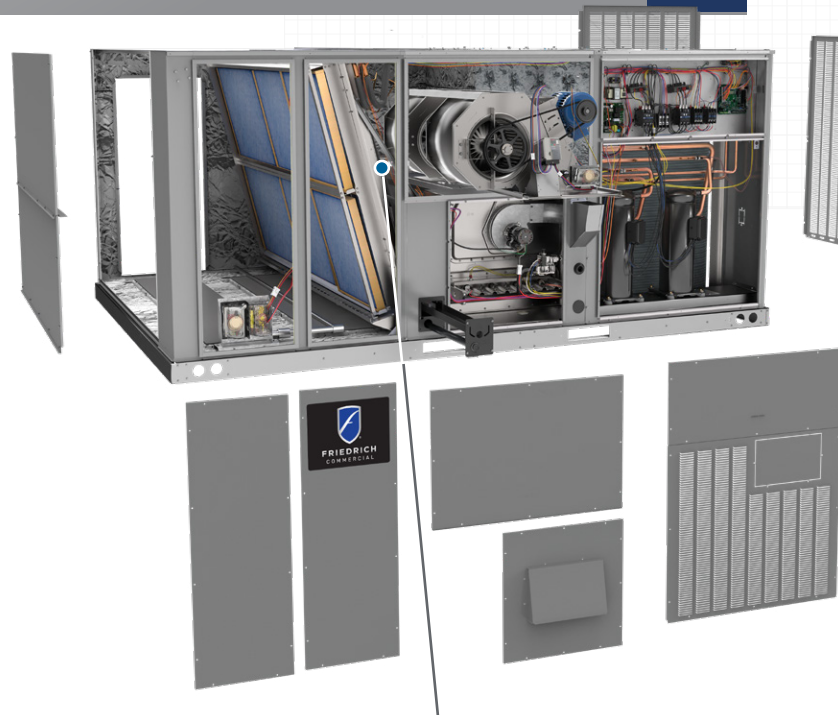
Friedrich HumidiDry dehumidifies like no other.

A thermodynamic dehumidification system, HumidiDry uses a combination of hot gas and subcooling reheat to remove moisture from the air. The evaporator coil cools the air, and then hot gas reheats it, effectively extracting moisture. The unit modulates the condenser fan speed to maintain neutral air delivery across a wide range of indoor and outdoor conditions, preventing overcooling and occupant discomfort.

Here's how it works:

HumidiDry is controlled by a simple, pre-programmed thermostat and a humidistat. When temperatures exceed the thermostat's set point, it operates like a standard rooftop unit, providing first-stage cooling for low demand or full-capacity cooling for high air conditioning loads. Unlike conventional rooftop or reheat units, HumidiDry's unique design varies the condenser fan speed—operating at a low speed during first-stage cooling to enhance moisture removal and provide an initial line of defense against humidity.

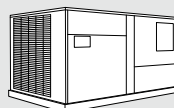
When the temperature is acceptable but humidity exceeds the humidistat's set point, HumidiDry initiates a dehumidification cycle using a combination of hot gas and subcooling reheat, delivering dry, neutral air.



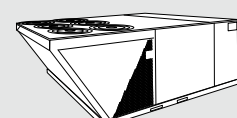
HumidiDry allows you to maximize comfort without compromising the desired temperature set point by controlling temperature and humidity independently.

AVAILABLE IN:

FRIEDRICH | Commercial Air



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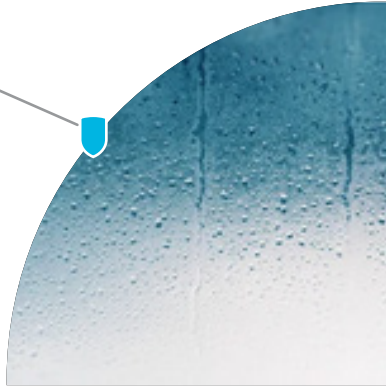
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THE HUMIDIDRY **ADVANTAGE**

Adding HumidiDry to your rooftop unit provides several benefits, including:

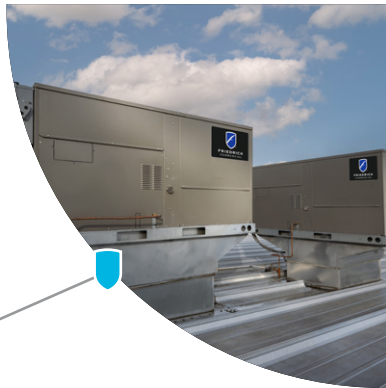
Superior dehumidification performance:

HumidiDry can remove more moisture from the air than standard rooftop units, even when the temperature is not hot enough to require cooling. It employs a combination of hot gas and subcooling reheat to dehumidify the air.



Increased efficiency:

HumidiDry can reduce energy costs by operating more efficiently than standard rooftop units. Because the unit is responding to temperature and humidity levels separately, it can reduce overall power consumption.



Extended life expectancy: HumidiDry uses a fan motor to vary the capacity of the reheat instead of modulating valves within the refrigerant circuit and making constant adjustments. The use of the fan motor can prolong unit reliability.

Improved comfort: HumidiDry helps to maintain a comfortable indoor humidity level, even when the temperature is not hot enough to require cooling. This keeps occupants more comfortable and productive, and can help reduce mold and mildew growth, improve indoor air quality, and relieve symptoms of allergies and asthma.

Learn more about Friedrich Commercial Air at [Friedrich.com/Commercial](https://www.friedrich.com/commercial)

CONTACT US

For additional information, contact your local Friedrich sales representative.

