



Commercial Adaptive Maximum Dehumidification Mode

Perfect Temperature / Perfect Humidity

The **HumidiFlex System (IAHS):** The Future of Commercial Humidity Control

Say goodbye to overpriced dehumidifiers. The **HumidiFlex System** is a breakthrough innovation that transforms standard off-the-shelf air conditioners into **high-performance, precision-controlled dehumidifiers**—without the premium price tag.

- **Cost-Efficient:** Achieve superior humidity control at a fraction of the cost of traditional systems.
- **Advanced Control:** Enjoy robust, customizable humidity management tailored to your commercial environment.

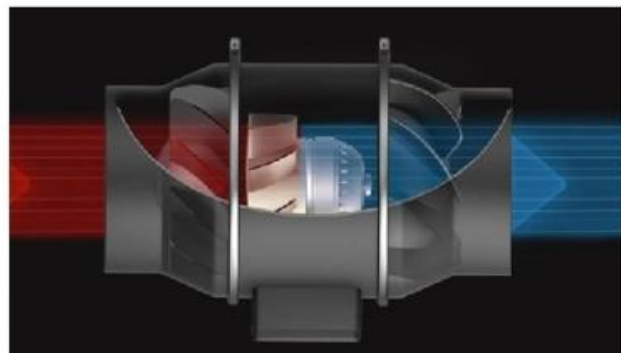
Whether you're managing retail, office, pharmacy, restaurant or industrial spaces, **HumidiFlex** empowers you to create a healthier, more comfortable atmosphere—efficiently and affordably.



Every **HumidiFlex System** Includes:

- **Inline Fan:** This fan is specifically engineered for optimal airflow and efficiency.
- **Integrated Sensors:** These sensors provide real-time, precision monitoring to keep your system running smoothly.
- **Dehumidification Mixed Air Controller (DMAC):** This is the intelligent hub that controls the entire system.
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25 °C DP: 9.3 °C
Mode AUTO DP Setting 8 °C



The **Dehumidification Mixed Air Controller (DMAC)** is a professional-grade control system that gives HVAC specialists unmatched precision, flexibility, and versatility for installation. The DMAC is compatible with single-stage, dual-stage, and inverter-type outdoor units, making it adaptable to virtually any commercial setup. It offers a selection of three Intelligent Modes, each using a unique algorithm to maximize results based on your priority: comfort, moisture control, or application flexibility.

The **Adaptive Maximum Dehumidification Mode (AMDM)** is the most often utilized setting for larger commercial spaces, make up air unit and grocery store ensuring top-tier **lower dewpoint performance** when you need it most. **The Main secret is the bypass.**

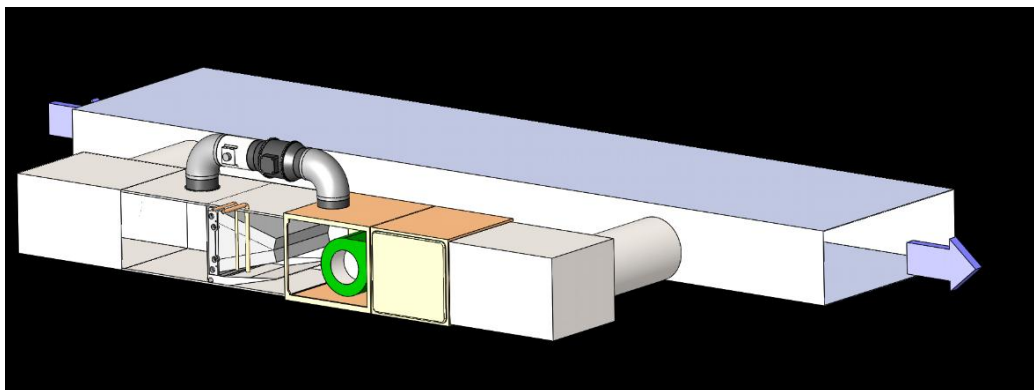
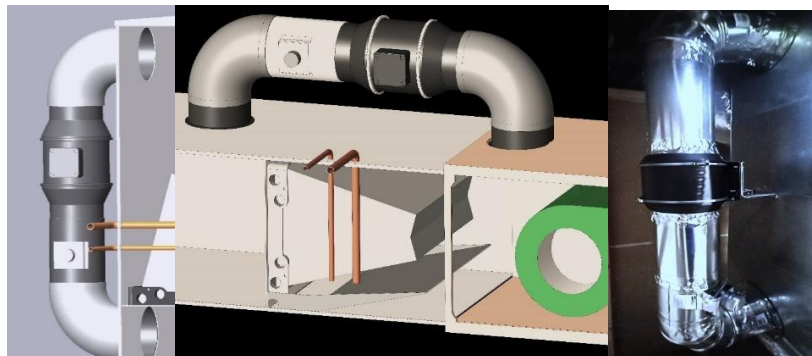
The system diverts a portion of warm, humid intake air around the main evaporator coil, cooling it to a much lower temperature than standard AC operation. This process maximizes condensation, removing significantly more moisture from the air.

Installation

The **HumidiFlex System** can be installed in one of two ways:

1. **Stand-alone** – operating independently as a single unit.
2. **Integrated** – distributed in series with any main ducting serving any single or multiple zones

Its application ranges from building a dehumidification system to having the potential to attach its ducting to several systems, such as those found on rooftops.



The HumidiFlex System stands out with its advanced features that redefine commercial dehumidification.

It provides **precise dewpoint control**, which is crucial for preventing mold and protecting sensitive equipment by managing a more stable environment than simple humidity sensors can. The system also

offers the unique ability to distribute both humidified and dehumidified air through the same ducts, creating a year-round, all-in-one climate control solution. However, its most significant breakthrough is **decoupled dehumidification**. By using a dedicated unit to handle moisture, it frees the air conditioner to focus solely on temperature. This separation of functions leads to **enhanced energy efficiency, superior comfort** without over-cooling, and **unmatched precision** in moisture management.