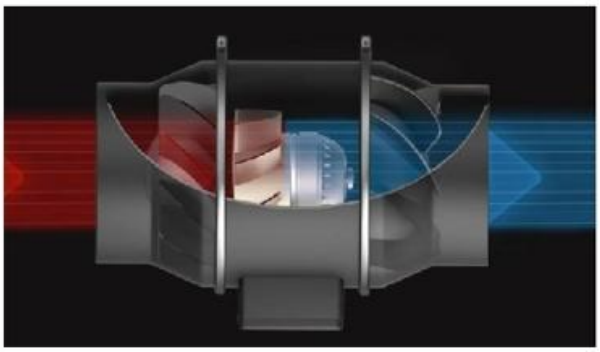
INNOTEK AIR **HumidiFlex System (IAHS)**

A Revolutionary leap in dehumidification system & control technology

The Most Important Setting for Peak Performance



The **Dehumidification Mixed Air Controller (DMAC)** is the heart of the **HumidiFlex System** — a smart, high-performance upgrade that adds powerful dehumidification to virtually any existing air conditioning or heating system. Seamlessly integrating with your indoor unit's thermostat, the **DMAC** continuously monitors heating, cooling, and fan operation and adding it has the capability to override it which deliver **precision comfort and superior indoor air quality**.

Suction Line Temperature Setpoint – The Key to Optimal Control

The DMAC is engineered for **simple, one-time setup** through its intuitive **Graphical User Interface (GUI)**, enabling HVAC professionals to fine-tune performance with ease. This single setting — the **Suction Line Temperature Setpoint** — is the most critical parameter for unlocking the full potential of the HumidiFlex System.

How It Works

- **Precision Probe Placement** During installation, a suction line temperature probe is mounted as close as possible to the **Thermostatic Expansion Valve (TXV) bulb** on the indoor evaporator coil.
- **Smart Fan Modulation** the **DMAC** uses the selected suction temperature setpoint to automatically modulate the fan and bypass airflow as needed, maintaining the target temperature with remarkable accuracy.

- **Optimized Coil Performance** The chosen setpoint closely correlates with the coil's leaving air temperature and bypass factor, allowing the leaving dew point to more closely match the refrigerant temperature, which is a key factor in achieving deep dehumidification.

What the Technician Will Notice

- **Instant Feedback** – Refrigeration gauges will show a rapid pressure drop, confirming the system's fast-acting response.
- **Visible Results** – A quick touch of the suction line will reveal condensation buildup, a clear sign of effective moisture removal.
- **Built-In Protection** – The DMAC is designed to prevent frost formation, but the installer must select a setpoint that avoids coil freeze-up or oil return issues. For added protection, a crankcase heater is recommended.

Why This Matters

By setting the **Suction Line Temperature Setpoint** correctly, you're not just adjusting a number — you're **unlocking the DMAC's full potential**:

- **Maximized dehumidification capacity**
- **Improved comfort and air quality**
- **Energy-efficient operation**
- **Long-term system reliability**

The DMAC turns any HVAC system into a precision humidity-control powerhouse, delivering comfort you can feel and performance you can measure.