



Supermarket

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.



Controlling humidity in a supermarket is important for several reasons, including maintaining the quality of perishable goods, improving customer comfort, and enhancing the efficiency of refrigeration units.

Product Quality and Shelf Life

Proper humidity levels are crucial for keeping products fresh and visually appealing. For example:

- **Produce:** Fruits and vegetables need a specific humidity range to prevent them from drying out, wilting, or losing weight.
- **Baked goods:** Maintaining the right moisture level prevents items like bread and pastries from becoming stale too quickly.
- **Meat and fish:** Proper humidity prevents these items from drying out, which helps them retain their texture and value.

Refrigeration Unit Efficiency

High humidity levels can significantly impact a supermarket's refrigeration systems. When warm, humid air comes into contact with cold surfaces like refrigerated display cases and freezer doors, it causes condensation and frost buildup on the evaporator coils. This frost buildup forces the units to work harder, which increases energy consumption and can lead to more frequent defrost cycles. By controlling humidity, supermarkets can reduce the strain on their refrigeration systems, leading to lower electricity use and improved operational efficiency.

Customer and Employee Comfort

A well-regulated environment makes the shopping experience more pleasant for customers, encouraging them to stay longer. It also provides a healthier environment for employees by reducing issues like dry throats and minimizing the risk of mold and mildew growth.

www.InnoTekair.com

For support in the designing process contact; support@innotekair.com