

InterpretAire



Maintaining a Stable Environment

Whether your emphasis is on pioneering technology, developing life-saving drugs or managing the integrity of sensitive documents or artifacts, maintaining the perfect environmental envelope is vital to your success.

These applications demand special equipment to manage the space.

- Require tight control over temperature and humidity
- Have large swings in cooling requirement daily & annually
- Must be dehumidified when little or no cooling is required

InterpretAire: Precision Humidity Control for Highly Variable Cooling Load Applications

The climate conditions within a low load facility can affect results and the endurance of equipment and supplies. Efficiency of all types is essential to maintain profitability in the information age; whether it be hot gas reheat to reduce energy use when dehumidifying, SCR reheat to improve climate accuracy, or intelligent controls to keep the staff productive and sharp -- Data Aire has designed a solution to address these needs.



The Data Aire InterpretAire climate management system can be programmed to maintain constant temperature and humidity within these application-specific environments to ensure that results are accurate.

InterpretAire quite literally interprets the needs of the space, and maintains the unique temperature and humidity perimeters mandated for high-accuracy standards.

InterpretAire

Temperature Control is Easy, Humidity Control is Not

Maintaining temperature when a facility has wide swings in heat load is relatively straightforward; the challenge is maintaining humidity. A standard air conditioning unit is not a viable solution because it has trouble interpreting humidity conditions and satisfying them in a room with variable cooling needs.

Consistency and precision were key drivers in the development of the InterpretAire solution. Likewise, these unique spaces require a solution designed to maintain the optimal conditions with programmable intelligent controls.



Features

Hot Gas Reheat

Reduced energy usage during dehumidification by 60%

Supplemental Electric Reheat

Operate in series with hot gas reheat when the load requires

Electric Reheat Elements

Designed to survive little or no air flow, as well as harsh conditions

Silicon Controlled Rectifier (SCR)

Allows the heat to pulse off and on in rapid succession to control the temperature within a narrower range than standard heat control option

Discharge Air Control

When cooling and heating is not needed, but dehumidification is, the temperature leaving the InterpretAire unit will be the same as the room temperature

Intelligent Thermal Control Platform

- Data Aire's dap4 control system is the industry's fastest and most advanced microprocessor controller available
- Our idap connects InterpretAire to the internet for monitoring and control, and email notifications of alarms, or
- Choose one of our additional communications cards to connect to essential building management systems