The dap4 control system combines a modern interface with a powerful and robust microprocessor controller. The dap4 includes all the functionality of previous Data Aire controllers – while providing a solid platform for future growth for mission critical operations.

Modern Touch Screen Available for Advanced Environmental Controller

This display offers color graphics for better comprehension and intuitive navigation. In addition, it has built-in temperature and humidity trending curves. There is also a compressor envelope graph that indicates performance of variable compressors.

- Multiple protocol integration
- Modern color touch screen allows easy access at your fingertips.
- At-a-glance simplified screens offer a holistic view of the environment including: air temperature, humidity and unit operation status.
- Trending screens allow the user to monitor temperatures and humidity in real time or historically.
- A variable compressor screen (gForce Ultra model) allows the technician to see the compressor envelope operating conditions.
- Display makes it easy for technicians to troubleshoot and manage mission critical environments.
- Available as an easy-to-install upgrade to existing dap4 LCD displays.

dap4 Benefits

**Control**

The dap4 offers the definitive answer for precision environmental control. It not only controls temperature, humidity, airflow and cleanliness; it provides component run times, hourly duty cycles and 24-hour temperature and humidity deviations.

**Efficiency**

Airsid and waterside economizers are available to help conserve power usage. Features like “Humidity Anticipation” offsets the humidity set point to reduce excess humidification and dehumidification. Options such as a variable compressor also contribute to energy savings.
Alarm Management

The dap4 offers extensive alarm management.

• An array of alarms conditions may be enabled, and some can be set to stop operations or completely shut down the unit.
• Each alarm has temperature and humidity readings and the date time it occurred to assist in diagnosing what caused the alarm.
• Four alarm relay contacts can be programmed to energize for any multiple of alarm conditions.
• Alarms are identified on the display module and sound an audible alarm, which must be manually silenced.
• 100 alarms are stored in memory and each can be reviewed on the display module simply by scrolling sequentially through the alarms.
• Each alarm is easy to read and indicates the conditions as well as the date and time of occurrence.

Features

• High quality microprocessor to monitor and control the operation of CRAC units for data centers, colocation facilities, IDF and MDF computer rooms. Other applications include archives, medical imaging rooms, and indoor growth facilities.
• At the heart of the controller is a 32-bit 24 MHz processor with 4 MB of flash memory and 512k RAM. To maintain the information in these components the controller is equipped with a rechargeable battery.
• Two basic components: a control module and a display module -- linked by a special telephone-like cable. The display module, most frequently located in the door of a floor mounted unit, can also be remotely located on an adjacent wall or panel - up to 150’ away. The compact control module fits easily in the electrical box and has a perimeter bus for easy electrical connections. The control module’s case of sturdy plastic makes it durable and resistant to damage and also minimizes the risk of electrical shock.
• Connect to a Building Management System with a communications card, which can come with the unit from the factory or be added at a later date for your convenience. There are four different cards available covering Modbus RTU, TCP/IP; BACnet IP or MS/TP; SNMP V1 or V2 and LonTalk SNVT.
• dap4 is the only controller on the market to include start-up and service manual override switches. Start-up and service personnel are able to by-pass the controller and isolate different components on the air conditioning unit. This speeds up diagnosing a problem and getting the unit back in service as quickly as possible.