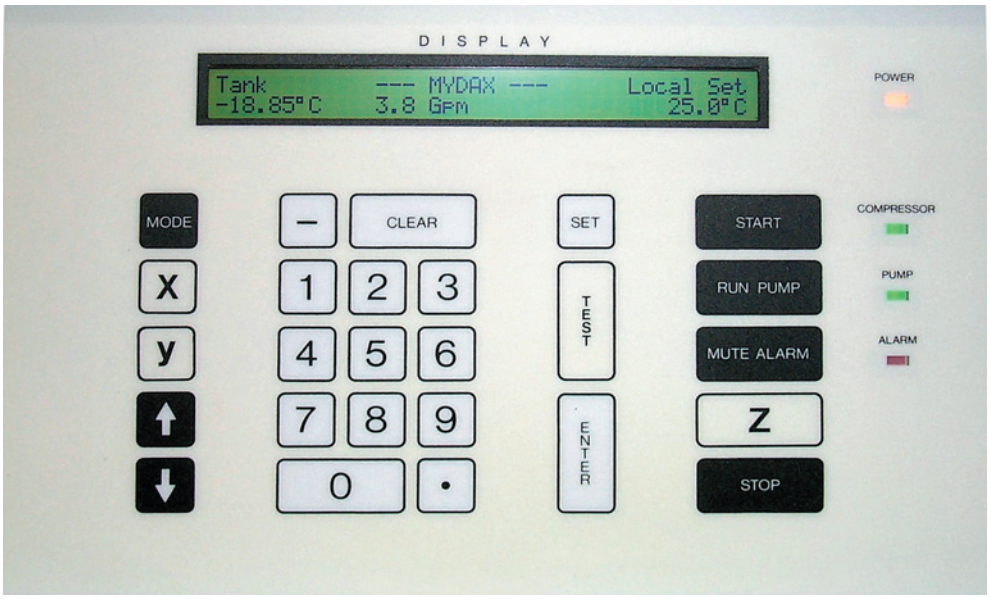
Excellence in Temperature Control

Master Controller



Sensors serviced by the Master Controller include the resistance temperature devices (RTD's), refrigerant pressure sensors, tank level switches, DI water resistivity sensors, flowmeter and test points in the electrical circuitry. This extensive monitoring allows Mydax to offer powerful comprehensive system controls, error messages and self-diagnostics.

SYSTEM CONTROLS:

System controls are simple yet powerful. A typical Mydax control panel is shown above. Commands are entered with just a few short keystrokes and system status is shown on the 80-character liquid crystal display (LCD) and panel LED's. A unique feature of Mydax systems are the error messages displayed by the controller on the backlit 80-character main display. The controller constantly monitors conditions throughout the system and automatically displays messages when error conditions are sensed. Corrective action may then be taken before a major problem occurs. Many displays are announced by an audible alarm and LED indicator. Error messages persist until the fault condition is resolved.

A series-wired safety interlock loop protects all Mydax systems, removing AC power from nearly all circuitry. The loop includes the refrigerant pressure switch, all tank "hot" sensors and level switches. If any link in the loop fails, the "Push Reset" error message will be displayed. Once the fault is corrected, the reset button must be used to re-establish the loop. The reset button must also be pushed at system power up. Customized error and warning messages are available. Users may be advised of out-of-tolerance conditions for such parameters as air flow, coolant flow, coolant pressure, etc. Custom shut-down interlocks are also available.

SYSTEM SELF-DIAGNOSTICS:

All Mydax systems are provided with a computerized self-diagnostic capability. This allows for the checking of coolant and refrigerant temperatures, voltage levels and alarm histories for correcting problems reported by the controller in an error message or simply to confirm proper system operation. A 'flight recorder' that uses a battery protected memory stores critical system information history for the previous 4 hours of running.

RS-232C INTERFACING:

The use of an embedded microprocessor allows Mydax to offer an RS-232C (remote) interfacing capability. Mydax systems can be controlled by another computer. Full control and monitoring is possible, allowing complete system operation from any convenient location. Customized command protocols are available.

12260 Shale Ridge Ln
Auburn, CA 95602
530-888-6662

Fax: 530-888-0962
E-mail: sales@mydax.com
www.mydax.com