

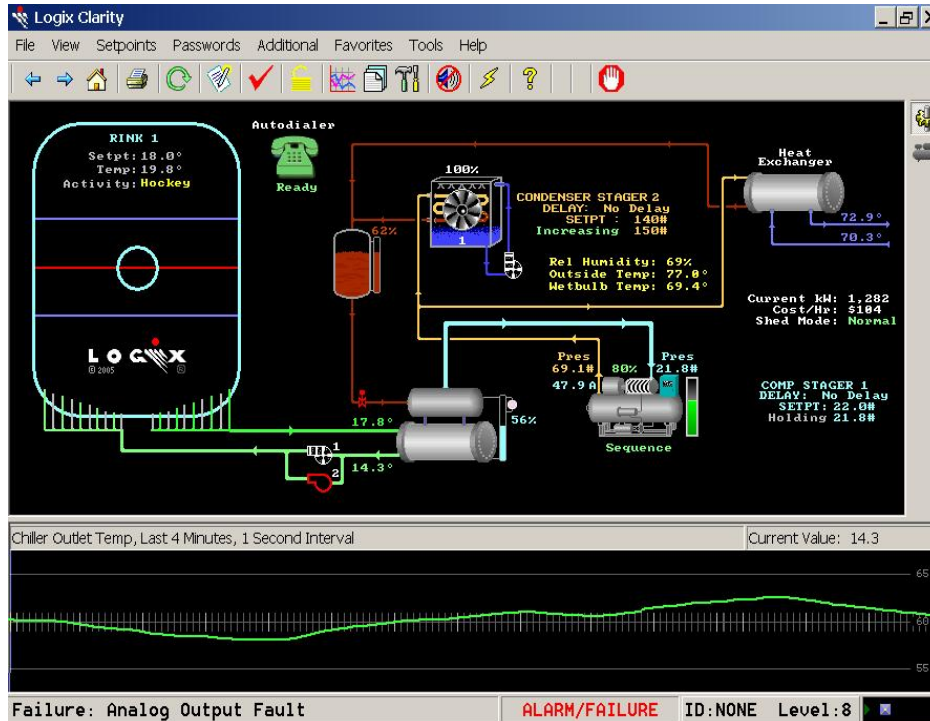


We Deliver Solutions

# INDUSTRIAL REFRIGERATION CONTROLS

## BENEFITS AND FEATURES

The Logix® Ice Rink Energy Management software delivers valuable facility management capabilities and utilities that lower your costs and improve your operations.



### Complete Equipment Control

Using color, animated real-time graphics, Logix® displays representation of ice rink equipment and other areas under system control. These realistic and functional graphics clearly show current ice rink and refrigeration equipment operating conditions with animated movement, color-coded on/off status and sensor point read-outs. Mouse selection of an item brings up its setpoint and other control screens.

### Flexible Rink Temperature Scheduling

The Logix® Ice Rink Energy Management Control software provides complete control for various activities such as hockey, figure and general public skating.

### Energy-efficient Operation

By automatically adjusting operations to time-of-day utility pricing, VFD motor support and other smart strategies, the Logix® Ice Rink Energy Management Control System reduces energy with no compromise in cooling performance, and delivers refrigeration at lowest energy cost.

## Logix® Ice Rink Energy Management Control System

*The Logix® Ice Rink Energy Management Control software allows you to identify strategies to lower costs and optimize facility operation. Identifying these efficiencies is easy with the Logix software featuring straight-forward menus, graphical screens and simple icons and symbols. All information and commands are in "plain English," making it easy for operators to execute commands and enter data – no computer programming skills are required.*

## Remote System Access

Off-site control is conveniently established through modem or internet communications with the Logix® Ice Rink Energy Management Control System, allowing secure access to the entire control system.



## Remote Alarm and Failure Dialing

The Logix® Ice Rink Energy Management Control System notifies personnel of any system alarm and/or equipment failure through the use of a telephone pager, voice over phone, and email, and allows personnel to acknowledge all alarms and failures from a touch-tone phone.

## Complete Refrigeration Control System Trend Logging

To enable logging of historical data, the Logix® Ice Rink Energy Management Control System records entire system operational status in user-defined time intervals year after year. All temperatures, pressures, amperage, control states and setpoints are available for viewing, printing and export to Excel spreadsheets.

## Reports Designer

Using the Logix® Ice Rink Energy Management Reports Designer, you can create custom system reports to meet your site management needs, and easily report trend information by email and send to other programs such as Excel.

## Graphical Data/Plotting

To enhance historical data logged, the Logix® Ice Rink Energy Management Control System produces line graphs of selected trend log data in time frames from a few hours to a full year, and converts complex operational data into recognizable trends you can analyze and use to improve plant performance.

## "Quick" Trend Logging

The Logix® Ice Rink Energy Management Control system intensively records entire system operation at fast rates (down to six-second intervals), which may be useful for diagnosing equipment problems and observing plant processes.

## Password Protection and Access Histories

Providing up to eight different authority levels of access to the system, the Logix® Ice Rink Energy Management Control software logs a history of user access for future reference.

## On-line Operations Manual

Instantly displays relevant onscreen "How to Use" information anywhere in the Logix® Clarity software. Topics are linked and indexed so you can easily find related information.

## Equipment Maintenance Manager

- Organizes and forecasts impending maintenance tasks based upon Equipment Runtime and Periodic time intervals.
- Creates work orders with description and check list, maintenance date, parts needed and personnel assigned to the task.
- Features a Maintenance History Log for recording all maintenance activity.

## Optional Features

- Electrical kWh Monitoring and Analysis tracks refrigeration system functioning and associated energy usage. Analyzes energy usage under varying control strategies to pinpoint the most efficient operating scenarios.
- Real-time automatic adjustment to decrease energy use during high-cost power periods.
- Refrigerant leak detection.

	Figure	Hockey	General	Special
Glycol Outlet Temp Setpoint	20.0 °F	13.0 °F	22.0 °F	0.0 °F
Glycol Low Outlet Temp Alarm	17.0 °F	10.0 °F	19.0 °F	0.0 °F
Glycol High Outlet Temp Alarm	24.0 °F	18.0 °F	26.0 °F	0.0 °F
Staging Control Setpoint	30.0 PSIG	24.0 PSIG	32.0 PSIG	0.0 PSIG
High Pressure Alarm Setpoint	40.0 PSIG	35.0 PSIG	42.0 PSIG	0.0 PSIG
Low Pressure Alarm Setpoint	20.0 PSIG	10.0 PSIG	22.0 PSIG	0.0 PSIG