

# Control Link™ RSC

## Control For State Of The Art Refrigeration Systems

Emerson Climate Technologies, a leader in retail facility management, has developed a unique controller for Reach-in coolers, Reach-in freezers, and self contained refrigerated display cases. The Control Link™ Refrigeration System Controller (RSC) is part of the most advanced line of application specific controllers Emerson has ever created. This state-of-the-art, modular control platform delivers levels of reliability, lower first cost, continuous energy reduction and connectivity that were previously unavailable. Its advanced control algorithms will reduce maintenance and total ownership costs. Networking capabilities offer the opportunity for every refrigeration system at a location to be seamlessly networked, which allows for continuous system monitoring, automatic maintenance dispatch (with monitoring), and superior data logging across an enterprise.

| Feature                               | Benefit   |
|---------------------------------------|---|
| Temperature Control                   | Precise and highly reliable sensor directly cycles compressor to insure highest food quality  |
| Defrost Control                       | Ends defrost based upon temperature, not time, and protects food quality. Optional real-time clock allows scheduling during off-peak times. |
| Phase Firing Compressor Relay Control | Patented cycling algorithm extends life well beyond industry standards.   |
| Communications Ready                  | Enables enterprise-wide system management, remote access, and device alarming   |
| Advanced Diagnostics                  | Early warning of maintenance issues, allows you to plan maintenance around your schedule.   |
| Lighting Control                      | Enhances energy savings by lighting the reach-in only during specified hours  |
| Remote Display                        | Allows alarms and information to be shown in a convenient location  |
| Alarm Codes on Label                  | Allows quick and easy troubleshooting   |
| Built in Compressor Protection        | Advanced algorithms prevent short cycling and excessive compressor cycling  |



Control Link RSC  
P/N 818-2055 shown

### Extreme Reliability

Uptime is critical to successfully operating a business. Emerson knows this and uses patented "phase fire" compressor relay cycling algorithms that deliver unprecedented reliability. These algorithms allow compressor relay life spans to be extended far beyond ordinary relays, which reduces downtime and protects product quality.

### Maximum Energy Savings

Control Link RSC's advanced algorithms are focused on reducing energy consumption as much as possible, and saving you money! For example, the direct temperature control algorithms deliver smarter compressor cycling, which maximize energy savings, reduce product shrink, maximize product quality, and extends compressor life by protecting against short cycles or excessive compressor cycling. An optional real-time clock allows defrosts to be scheduled at off peak times for reduced peak utility charges. Control Link also controls defrost based upon coil temperature, not a pre-set time limit. This both minimizes the amount of time that the case is in defrost, and guarantees an optimally successful defrost period. The results are superior energy savings and reduced product shrink.

# Control Link™ RSC

## Accessibility & Alarm Management

Alarm management is integral to any food safety initiative, as well as shrink reduction. Control Link RSC makes accessing alarm data and system information easier than ever. Alarms and system data may be viewed on either the controller's display, remote display module, or remotely through a networked facility management system. Alarms and maintenance indicators may also be sent to a remote monitoring service or a contractor for diagnosis and maintenance. Early notification of alarms can prevent untimely equipment failure, and reduce repair costs.

## Temperature Monitoring

Control Link eliminates less reliable methods of manually monitoring and recording temperatures—and the human errors that inevitably occur. Each controller, when networked, automatically logs temperature data at an established rate. As food service operators are aware, temperature logging is a critical piece of any HACCP compliance program. In addition to monitoring data, Control Link can be used to notify operators should temperatures be either above or below alarm levels or if any potential maintenance conditions exist, such as an extended defrost or compressor failure.



## Intelligent Store™ Architecture

The Control Link platform is a base component of Emerson's Intelligent Store™ architecture. The architecture creates an integrated suite of products and services that provide retail operators a new level of sophistication and insight into their operations. When integrated or linked together, these innovative products and services can provide maintenance, energy, and reliability gains. Also included in the Intelligent Store are the E2 Facility Management System, Intelligent Store Discus® compressor, select Lennox HVAC units, and other third party devices. For more information on Emerson's Intelligent Store, the Control Link platform, or facility monitoring and field services, visit [www.EmersonClimate.com/retailers.htm](http://www.EmersonClimate.com/retailers.htm)

LED's show when compressors and fans are active



Scroll through case temperatures

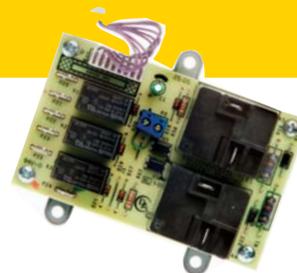
Alarm silence button for easy troubleshooting

Control Link Remote Display  
P/N 818-2070

Standard CAT5 cable connects remote display



Control Link RSC  
P/N 81-2050



Control Link Expansion Module  
P/N 818-2055



1640 Airport Road NW, Suite 104, Kennesaw, GA 30144  
770.425.2724

[EmersonClimate.com](http://EmersonClimate.com)  
[cpcus.com](http://cpcus.com)

Form No. 2006SG-122 (8/06)

Emerson Climate Technologies and the Emerson Climate Technologies logo are service marks and trademarks of Emerson Electric Co. All other trademarks are the property of their respective owner. Printed in the USA. © 2006, 2005 Emerson Climate Technologies.



EMERSON. CONSIDER IT SOLVED.™