RSG™
Refrigerated Solutions Group®

LOGITEMP®

Electronic Controller Systems

Featured in Capsule Pak™, Capsule Pak ECO™ and many Split-Pak™ refrigeration systems, LogiTemp controllers boost efficiency and provide many other benefits.

LOGITEMP® FEATURES AND BENEFITS

LogiTemp electronic controllers are designed to increase food safety while reducing energy and installation costs compared to all-mechanical systems. LogiTemp is standard on all self-contained Capsule Pak™ refrigeration systems with a more limited feature set on Capsule Pak ECO™ systems. On remote Split-Pak™ systems, it is standard on freezer systems 6 H.P. and above and optional on other systems.

Food Safety

- More precise and reliable controls than an all-mechanical system for increased food safety
- Should there be an issue with the refrigeration system, operators will know instantly through error codes and data provided online (Capsule Pak and Split-Pak models only)

Installation Savings

- As an integrated component of all Capsule Pak and Capsule Pak ECO systems, no installation is required
- On Split-Pak systems, no wiring is required between evaporator coils and condensing units (2 pairs of low voltage wires, typically thermostat cables, are required to operate the Reverse Cycle Defrost valve and the compressor relay at the condensing unit).
- On Split-Pak systems, a LogiTemp-equipped system uses less refrigerant with no winter charge necessary

Energy Savings

- LogiTemp's patented design saves up to 27% more energy than an all-mechanical system
- Demand Defrost technology on Capsule Pak and Split-Pak models initiates defrosts only as needed for further energy savings
- Defrost time, when initiated, is also greatly shortened
- LogiTemp® Plus with Reverse Cycle Defrost provides additional savings (see next page)
- On Split-Pak systems, save 2-4% more energy with the fan cycle option which saves electricity by cycling the evaporator fans during the compressor's off cycle

Connectivity (Capsule Pak and Split-Pak Models)

- Software loaded on controllers allows remote monitoring and programming using any device with a wireless internet or cabled (cat 5) connection
- No need for a service tech to climb onto a roof or enter the walk-in to monitor or adjust the refrigeration system
- Constant data access allows users to improve refrigeration performance and avoid service issues

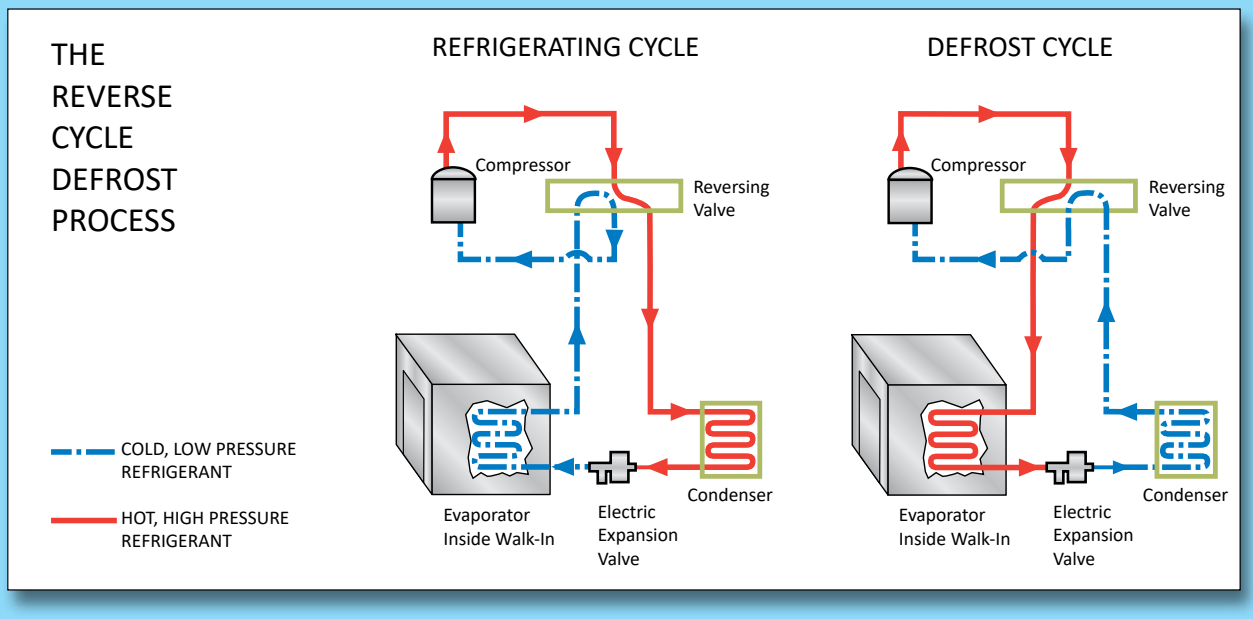
Software on Capsule Pak and Split-Pak models gives users constant access to refrigeration system performance data and can be accessed from any device with an internet connection, including PC, Mac, smartphone or tablet.

LogiTemp® Plus With Reverse Cycle Defrost
(An Option Offered On Split-Pak Systems)

When evaporator coils are blocked due to ice build-up, they lose the ability to transfer heat properly. Temperatures in a refrigerated space then rise, resulting in food spoilage. To protect your perisables, LogiTemp Plus adds a reverse cycle defrost valve to the system to completely remove frost build-up in coils.

As an option on remote Split-Pak systems, LogiTemp Plus offers several advantages:

- The Reverse Cycle Defrost function helps prevent food spoilage by completely and rapidly removing ice build-up in evaporator coils.
- Reverse Cycle reduces defrost energy usage by up to 80% over traditional electric heaters
- Performs a defrost in as little as 3 to 5 minutes in a freezer or 1-1/2 to 2 minutes in a cooler. Shorter defrost times help protect food integrity. The average defrost time for a freezer with electric heaters is 20 to 30 minutes.
- Adds refrigerant savings due to reduced charge



When the LogiTemp Demand Defrost function determines a defrost is necessary, a reverse cycle valve installed on the refrigeration system's condensing unit is activated and high temperature refrigerant flow is reversed. The refrigerant flows back through the evaporator coil, heating it along its entire length, totally eliminating frost build-up.

CONTROLLER COMPARISON

					
Feature	Benefit	LogiTemp® Plus With Reverse Cycle Defrost* (Optional On Split-Pak™ Systems)	LogiTemp (Split-Pak™ Systems)*	LogiTemp (Capsule Pak™ & Capsule Pak Remote Systems)	LogiTemp (Capsule Pak ECO™ Systems)
Internet application	Allows remote communications, setting changes, firmware updates, alarms via email or text message and system status monitoring	✓	✓	✓**	⊗
Standard alarm functions	Alert the user to potential problems with high temperature, low temperature, sensors, low pressure, communications or superheat	✓	✓	✓	✓***
Data logging	Provides 30 days of room and coil temperature history to help diagnose service issues should they arise	✓	✓	✓	⊗
Digital readout and four button overlay	Easy set-up and menu navigation	✓	✓	✓	✓
Demand defrost technology	System only defrosts as necessary, saving energy	✓	✓	✓	⊗
Electronic expansion valve (EEV)	• Increased efficiency over mechanical thermostatic expansion valve • EEV is modulated by evaporator superheat and return air temperature	✓	✓	✓	⊗
Temperature sensors	Provides redundancy for product temperature reliability and integrity	✓	✓	✓	✓
System settings are password protected	Added security	✓	✓	✓	✓
Alternating two refrigeration systems	More energy efficient use of refrigeration systems by reducing the number of stops/starts	✓	⊗	⊗	⊗
Peer-to-peer control	Refrigeration and defrost can be synched together between several controllers	✓	⊗	⊗	⊗
Reverse cycle defrost	• Completely and rapidly removes ice build-up in evaporator coils to improve coil performance • Reduces defrost energy usage by up to 80% over traditional electric heaters • Performs a defrost in as little as 3-5 minutes in a freezer or 1-1/2 to 2 minutes in a cooler. Average defrost time for a freezer with electric heaters is 20 to 30 minutes.	✓	⊗	⊗	⊗

* LogiTemp is standard on Split-Pak freezer systems 6 H.P. and above and optional on other systems. LogiTemp Plus with Reverse Cycle Defrost is optional on any LogiTemp-enabled Split-Pak system.

** Requires optional Sitrad app.

*** Capsule Pak ECO controller does not alert to issues with low pressure, communications or superheat.

RSG™ Refrigerated Solutions Group®
891 County Road U
Hudson, WI 54016
800-955-5253