

INTELLIREF V2 + DEFROST

LOW TEMPERATURE

NORBEC™

Preserving freshness standard one cycle at a time

Why INTELLIREFV2 Low Temperature?

The INTELLIREFV2 Low Temperature controller simplifies refrigeration control by combining the functions of a thermostat and defrost timeclock. This robust design provides a wide range of medium & low temperature applications with air electric defrost.

In medium temperature environments, [-16 °C/3 °F] and higher, a built-in defrost clock performs defrost cycles according to scheduled interval or on precise time. In low temperature environments, the INTELLIREFV2 Low Temperature provides an easy-to-understand thermostat that eliminates end user frustrations that come with overly complicated modules available today.

The INTELLIREFV2 Low Temperature provides precise system operation, a user-friendly interface, and a battery powered real-time clock, that won't shut off during a power outage.

The INTELLIREFV2 Low Temperature is accessible through a Local Area Dashboard & Alarms (LDA), which can be monitored locally or to adjust set point and monitor system operation. Alarms notifications can be sent to multiples people such as restaurant owners, refrigeration contractor, managers, etc. through text messages or via e-mail.



Defrost Features

- Off time defrost on schedule or custom defrost
- Regulates the amount of defrost heat to reduce steaming
- Service Call Saver – post defrost indicator (dEF)
- Manual defrost
- 1st defrost 2hrs after start up

Non-Defrost Features

- Digital Thermostat
- Compressor protection – Maximum starts per hour
- Optional door switch with all the necessary time delays
- Visual Alarms – High temp/Low temp/Sensor Failure
- PC/tablet/smartphone interface, email alarm alerts, remote access with LDA option
- Simple wiring, reduced installation time
- Keypad lockout prevents un-authorized adjustments
- Can control a 2 speed EC Motor (energy efficiency requirements)

Controls



Hardware

- Pre-assembled in factory
- Relay for solenoid / compressor included
- 3 digit 7-segment display
- 4-button user interface
- Modbus terminals
- Low battery indicator: Blinking red light indicates the Real Time Clock battery needs to be replaced.

Service Call Saver – post defrost indicator

To eliminate unnecessary service calls, the INTELLIREFV2 Temp alerts the user when coming out of a defrost cycle using the on-board display. The display alternates between dEF and the actual temperature measured by the air sensor. This continues until the temperature has reached setpoint, or for the amount of time set by dFt (defrost Time)

Quick & Easy remote Communication,
Control & Alarm when used with LDA option.



Food needs to be maintained at cold temperatures to prevent the growth of bacteria and other microbes that make food spoil—and can make people sick. If there is a problem with the refrigeration system, you want to know as quickly as possible to fix it to prevent food loss and money loss.

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LDA option* - service calls

High and Low temperature alarms can be sent to restaurant owners store manager, refrigeration contractor through email or text message without additional costs.

Therefore, the refrigeration contractor will be able to get information on the status of the alarm, evaluate the urgency level & troubleshoot at distance if necessary. Save on expensive service calls.

The alarms allow the detection of abnormal activity faster and maintain the cold chain (HACCP) to assure food safety and prevent costly food loss.

The end user (restaurant owner, manager, etc.) can monitor the LDA Dashboard from his PC, Tablet or smart phone once the LDA is connected to his network.

Can connect up to ten controls on the same LDA

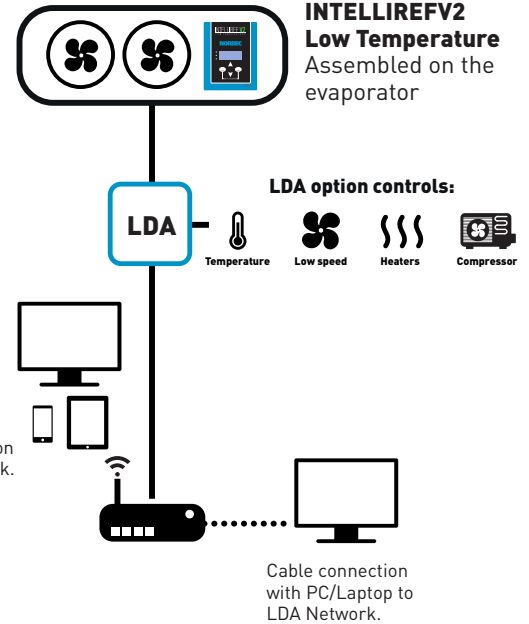
Alarm Types:

- High temperatures
- Low temperatures
- Defective sensors

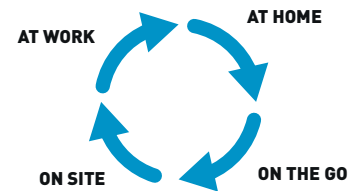
Data logging – Flash drive**: records temperature variations every 5 minutes to 24 hour

- The HACCP requires a data log of temperatures for sanitary purposes. With this data log, the records of temperature are accurate and precise. With this new technology, employees are released from having to do this task and there are less risks of error or inconsistency.
- Installation is fast and simple. Must simply be wired to the LDA control and data records are done automatically.
- Allows refrigeration contractors to establish precise and fast problem diagnosis by consulting historical data. This, in return, reduces the number of service calls related to the issue.

Simple tool, quick installation, automatic data records.



Alarms accessible at all times & everywhere



Imagine losing thousands of dollars' worth of food!

The LDA & Data Logging options are a cost effective & worry-free solution to prevent food loss, save on expensive service calls and meet health and safety requirements.

* Required modem and internet connection
** Must have the LDA module installed