

ESP+

INTUITIVE EVAPORATOR CONTROL TECHNOLOGY



Leading the Way

ESP+

INTUITIVE AND SIMPLE

Trenton Refrigeration's ESP+ intuitive evaporator control technology is designed to replace traditional electro-mechanical refrigeration controls typically used on medium and low temperature applications. By combining award winning adaptive technology along with an electronic expansion valve, Trenton Refrigeration continues Leading The Way with innovative, state-of-the-art designs.



On most models, its two pipes, two wires and you're done. No interconnecting control wiring between the evaporator and the condensing unit is required.*

**Visit t-rp.com/esp for details*

BENEFITS

- Quick simple installation
- Improved evaporator performance by minimizing excessive frost on the evaporator
- Eliminates ice build up on surfaces and product
- Energy savings through evaporator fan management
- Energy savings with reduction in the number of defrost cycles
- Defrost heater management
- Improved system diagnostics and service through advanced alarm notification text/email
- Remote monitoring & system control
- User friendly interface
- Precise temperature control for prolonged product shelf life
- Improved product integrity with less potential for spoilage
- Downloadable data provides system history for prior 30 days
- Remotely view and change system parameters and alarm settings
- Manually control system
- Easily troubleshoot issues

WHAT IT CONTROLS

- Box Temperature
- Superheat
- Defrost Initiation
- Defrost Termination
- Fan Motors
- Defrost Heater (Electric Defrost Models)

ACCESS DATA DIRECTLY FROM THE SYSTEM



System Mode
Refrigerate



Room Temp
-9.0°F



Coil Temp
-21.5°F



Compressor
Relay On



Evaporator Fan
Relay On



Alarm Relay
Relay Off



Defrost
Relay Off



Door SW
Closed



Dgt Input2
Disabled



System
System On



Aux Temp
Disabled



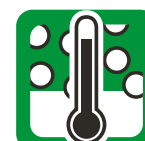
Superheat
2.4° F



Suction Press
11.0 psig



T1 Suct Temp
-25.5° F



Sat Temp
-27.9° F



Valve Position
6.8%

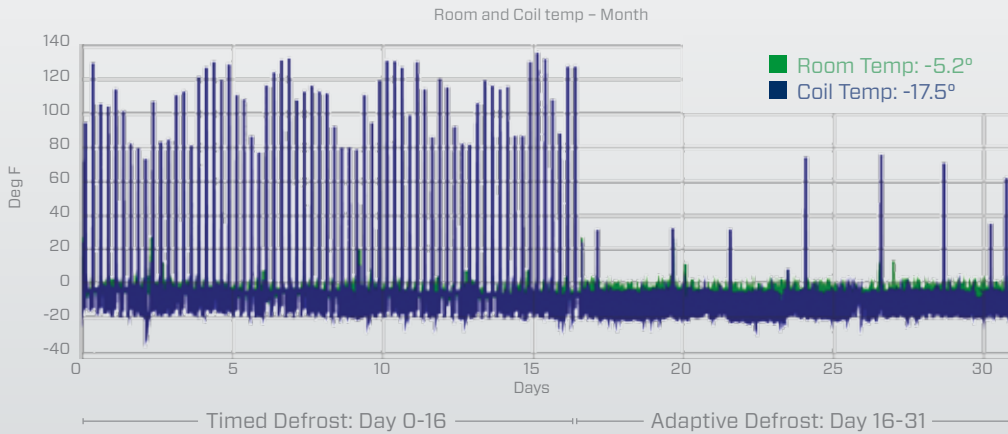
**Available on TPLP and TLP
Pre-Assembled Low Profile Evaporators**



**ADAPTIVE CONTROL AND
REMOTE ESP+ DISPLAY**

**ELECTRONIC EXPANSION VALVE
ENSURES GREATER SYSTEM STABILITY
AND BETTER EVAPORATOR CONTROL**

TIMED DEFROST VS ADAPTIVE DEFROST



86% fewer defrost cycles*

- Enhanced system performance
- Energy savings
- Improved product integrity

* Data may vary depending on application

FEATURE COMPARISONS	ESP+	COMPETITOR
Adaptive control for air/electric defrost applications	Yes	No
“Bonding” ability for up to 8 controllers to maintain high efficiency on single or multiple unit cooler installs. Not master/slave set up	Yes	No
Can be applied on a variety of evaporator styles	Yes	No
Ability for integration with door switch to improve efficiency and reduce frost issues	Yes	No
Can be easily configured with lead/lag systems	Yes	No
Ability to send text/email alarms	Yes	No
Effectively eliminates icing issues	Yes	No
Local web pages, graphs and data logging for ease of trouble shooting/ set point changes	Yes	No
Ability to view and control system operation remotely to assist contractor with system diagnostics	Yes	No



Electro-Mechanical Configuration

TPLP and TLP PRE-ASSEMBLED LOW PROFILE EVAPORATORS

Now available with

ESP +

Value priced
Electro-Mechanical
models also available.

**VISIT T-RP.COM OR
CALL 1-800-463-9517
FOR MORE DETAILS.**



SYSTEMS SAVINGS SOLUTIONS

Trenton Refrigeration offers a complete line of commercial refrigeration products. From the smallest unit to the very largest, Trenton Refrigeration brings experience and commitment to the refrigeration industry - beginning with product design and engineering, and continuing through manufacturing, sales and after market support.

Trenton Refrigeration continues to Lead The Way, providing an award-winning line of Systems Savings Solutions, designed to reduce environmental impact, reduce energy consumption, increase system efficiency and more.

LIMITROL +

FLOATING HEAD PRESSURE CONTROL SYSTEM

Limitrol+ combines various technologies into a responsive system that floats head pressure, saving energy and reducing environmental impact.



LINK/LINK +

MULTI-COMPRESSOR REFRIGERATION SYSTEM

Provides a conveniently centralized package for compressors, electrical and controls, allowing for maximized merchandising space.

SMARTSPEED™

FAN MOTOR TECHNOLOGY

Simple, innovative EC motor technology offers significant energy savings through an award winning patented system configuration.



QUIETUNIT

REFRIGERATION DUTY CONDENSING UNITS

The award winning Quiet Unit is designed for refrigeration duty, and ideally suited for applications where space limitations, energy efficiency or sound levels are of concern.



Leading The Way

TRENTON REFRIGERATION
Brantford, ON - Longview, TX

Phone: (519) 751-0444 or 1-800-463-9517 Fax: (519) 753-1140

Available Exclusively from



1-888-578-9100

For more information about product lines go to: www.t-rp.com

Due to National Refrigeration's policy of continuous product improvement, we reserve the right to make changes without notice.

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