

UNIVERSAL DEFROST TIMERS



As Easy As 1-2-3

1. Set Time

Scroll cursor to desired time. Select SET TIME button.

2. Set Defrost

Scroll cursor to desired defrost times. Select DEFROST START/STOP button.

3. Clear Defrost

Rotate cursor to the first segment in the defrost screen.
Select CLEAR button.

Additional programming features are just as simple to use. Install our Universal Defrost Timer today to understand why Paragon[®] is Simply the Right Choice[™] in Defrost Timers.

Features and Benefits

The Paragon® 9045-00 and 9145-00 Universal Defrost Timers are the only multi-voltage defrost timers engineered to refrigeration standards. At four defrosts per day, the Paragon Universal Defrost Timer switches last 16 years longer than competitive offerings.

- Certified to UL873 Standard for Temperature-Indicating and Regulating Equipment, as Refrigeration Controllers
- Wires directly to 120V AC, 208V AC or 230V AC power sources without jumpers or switches
- Easy programming, easy set-up, set time, set defrost start and defrost end
- · Initiate 15 minute manual defrost
- 100 hours of power loss protection for both time and defrost schedule
- Display shows defrost start time and duration
- Real-time clock
- Lighted display
- · System status indicators
- Mechanism-only versions designed to fit in the standard Paragon enclosures

An ISO 9001 - 2008 Certified Company





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Ordering Information

9145-00 Time Initiate/Temperature, Pressure Terminate Defrost Timer with

Metal Enclosure

9145-00M Time Initiate/Temperature, Pressure Terminate Defrost Timer –

Mechanism Only

9045-00 Time Initiate/Time Terminate Defrost Timer with Metal Enclosure
9045-00M Time Initiate/Time Terminate Defrost Timer – Mechanism Only

Specifications

Input Power

120/208-240 VAC 60 Hz (+10, -15%)

Power Consumption

6VA max, Defrost termination switch (terminal "G") input impedance to terminal C: $85k\Omega$ +/- 5%

Operating Voltage

102 VAC min to 132 VAC max @ 60 Hz 176.8 VAC min to 264 VAC max @ 60Hz NOTE: No user-required adjustments to switch between the high and low voltage.

Ambient Operating Conditions

-40°F to 131°F (-40°C to 55°C); 0 to 95% RH (non-condensing)

Storage Temperature

-40°F to 140°F (-40°C to 60°C)

Outside Dimensions

Individual unit 4.40"W x 7.82"H x 3.80"D

Individual unit (in shipping box) 4.75"W x 8.875"H x 4.75"D

Individual Case Shipping Weight

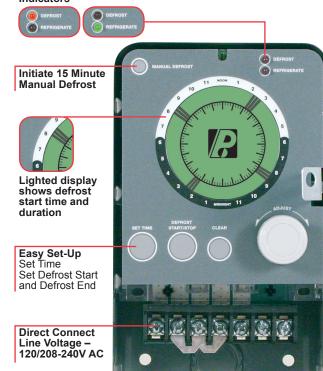
Agency Listings

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C US File number SA512 (9045-00M and 9145-00M)

The devices are listed as Refrigeration Controllers

System Status Indicators



9145 Terminal Data*

Terminal	Α	В	С	D	E	F	G	
Relay Contact	SPDT NC Contact	SPDT NO Contact	SPDT COMM Contact	SPDT NO Contact	SPST COMM contact	L2/N Power in to timer	Defrost Termination Device Input L2/N side	
Relay Rating	15A resistive @ 120 VAC to 240 VAC	30A resistive @ 120 VAC to 240 VAC			30A resistive @ 120 VAC to 240 VAC			
	1/4HP @ 120 VAC, 1/2HP @ 208 VAC to 240 VAC	1HP @ 120 VAC, 2HP @ 208 VAC to 240 VAC			1HP @ 120 VAC, 2HP @ 208 VAC to 240 VAC			
Device Connections	Fan (Typical) Compressor (Optional)	Defrost Device (Typical)	L1 Power to timer and to Defrost Termination Device		Compressor (Typical) Fan (Optional)		Defrost Termination Switch	
* 9145 is a general purpose defrost timer and can be used for both Time Initiate/Time Terminate and Time Initiate/Temperature, Pressure Terminate								

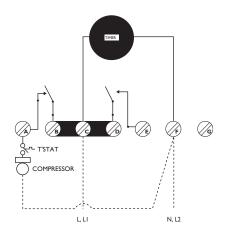
9045 Terminal Data

Terminal	Α	В	С	D	Е	F	G
Relay Contact	SPST #1 NC Contact	SPST #1 COMM Contact	L1 Power in to timer	SPST #2 NO Contact	SPST #2 COMM Contact	L2/N Power in to timer	No Connection
Relay Rating	30A resistive @ 120 VAC to 240 VAC				30A resistive @ 120 VAC to 240 VAC		
	1HP @ 120 VAC, 2HP @ 208 VAC to 240 VAC				1HP @ 120 VAC, 2HP @ 208 VAC to 240 VAC		
Device Connections	Compressor (Typical)				Defrost Drive (Typical)		

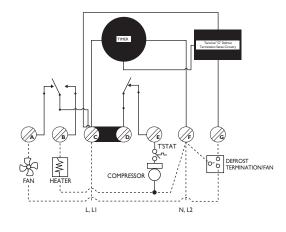
UNIVERSAL DEFROST TIMERS

Applications and Wiring Diagrams

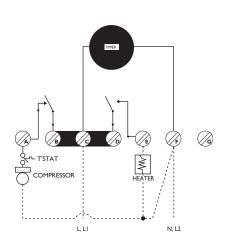
9045 AIR DEFROST Time Initiated Time Terminated



9145 ELECTRIC DEFROST Time Initiated Temperature Terminated

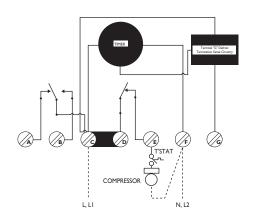


9045 ELECTRIC DEFROST Time Initiated Time Terminated



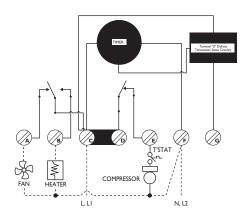
9145 AIR DEFROST Time Initiated Time

Terminated



9145 ELECTRIC DEFROST Time Initiated Time

Terminated

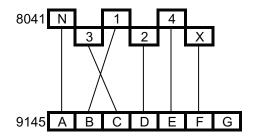




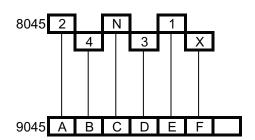
UNIVERSAL DEFROST TIMERS

Conversion Diagrams for Paragon Mechanical Controls

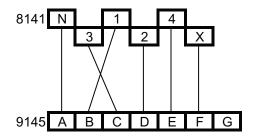
Convert 8041 to 9145



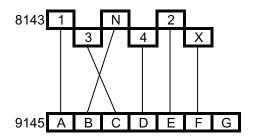
Convert 8045 to 9045



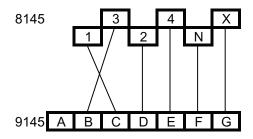
Convert 8141 to 9145



Convert 8143 to 9145



Convert 8145 to 9145



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Controls

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