



Commercial Refrigeration Defrost Controls

Designed to meet a wide variety of customer requirements. These electro-mechanical controls are used on many different types of commercial refrigeration equipment, including walk in boxes, reach in boxes, refrigerated cases and condensing units.

Features / Benefits

- Heavy-duty synchronous motor.
- Adjustable Defrost Initiation Frequency: One to six times per day.
- Adjustable Defrost Cycle Duration: 4 to 110 minutes in two-minute increments.
- Contact Arrangements: Electric heat, hot gas, or off cycle defrost available.
- Heavy-duty steel case with electrical knockouts in the sides, back and bottom.

Applications

As a defrost control based upon the following functions.

- Time initiation and time termination.
- Time initiation and temperature termination.
- Time initiation and pressure termination.



Models

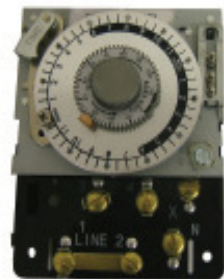
SUPCO P/N	Voltage/ Hz	Switching		Time Initiated		
		NO Normally Open	NC Normally Closed	Time Initiated	Time Terminated	Temperature or Pressure Terminated
S804100	120 / 50Hz	1 NO / 2 NC		YES		NO
S804120	240 / 50Hz	1 NO / 2 NC		YES		NO
S804500	120 / 50Hz	1 NO / 1 NC		YES		NO
S804520	240 / 50Hz	1 NO / 1 NC		YES		NO
S814100	120 / 50Hz	1 NO / 2 NC		NO		YES
S814120	240 / 50Hz	1 NO / 2 NC		NO		YES
S814500	120 / 50Hz	1 NO / 1 NC		NO		YES
S814520	240 / 60Hz	1 NO / 1 NC		NO		YES
S8145-21	240 / 50Hz	1 NO / 1 NC		NO		YES

Accessories

X3596 Dial Pins 5 Pins Per Pack



M814520
Exact drop-in replacement mechanism for SUPCO S814520 and Paragon 8145-20
Available in 6-pack display.



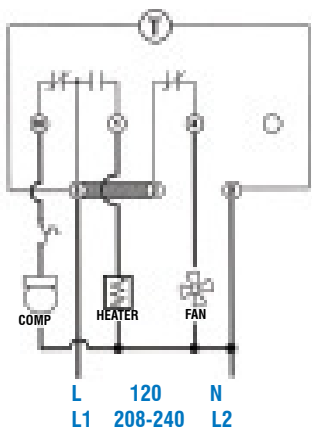


Specifications

Operating Voltages:	120 or 208/240 VAC, 60 Hz
Current (Amperage):	40 Amp non-inductive @ 120, 208 or 240 VAC
Maximum hp:	2 hp @ 120, 208 or 240 VAC
Pilot Duty:	690 VA @ 120, 208 or 240 VAC
Operating Temperature Range:	-35°F to +175°F (-37°C to +79°C)
Overall Case Dimensions:	7.697" H x 4.4" W x 3.8" D (19.6 cm H x 11.18 cm W x 9.66 cm D)
Shipping Weight:	S8040 series 3.5 lbs (1.6 kgs) & S8141 series 3.75 lbs. (1.7 kgs)

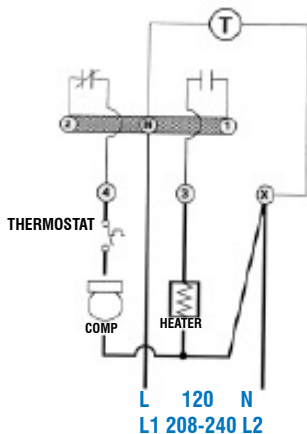
Wiring Diagrams Electric Heat Defrosting S8041 & S8045 Series

S804100 & S804120



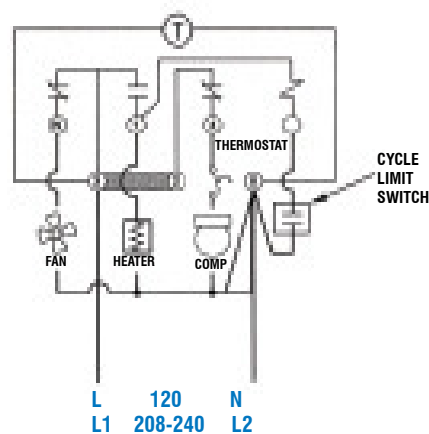
Fan and compressor loads not to exceed 2 hp. Heater not to exceed 4000 watts at 120V AC or 8000 watts at 240V AC.

S804500 & S804520



Heater not to exceed 4000 watts at 120V AC or 8000 watts at 240V AC.

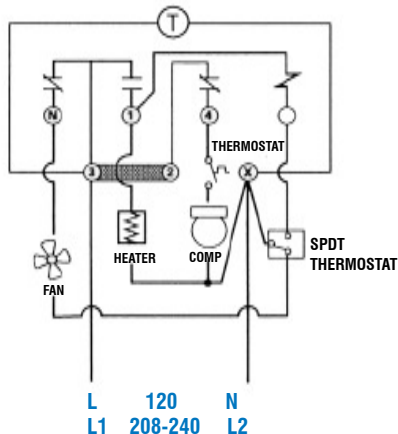
S814100 & S814120



Wiring using 120V or 240V single phase line with auxiliary fan circuit.

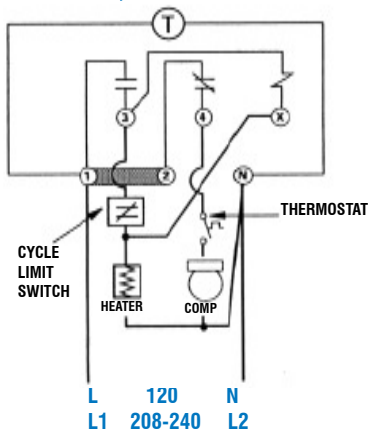
Wiring Diagrams Electric Heat Defrosting S8141 & S8145 Series

S814100 & S814120



Wiring using differential of SPDT thermostat to delay fan after defrosting.

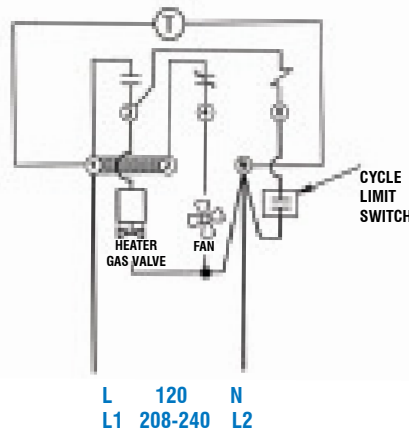
S814500, S814520 & S814521



Normally closed thermostat used with defrost heater.

Wiring Diagrams Hot Gas Defrosting S8145 Series

S814500, S814520 & S814521



Wiring using 120V or 240V single phase line compressor thermostat closed during defrost.

Cross Reference

SUPCO	Paragon	Precision	SUPCO	Paragon	Precision
S804100	8041-00	6041-00	S814120	8141-20	6141-20
S804120	8041-20	6041-20	S814500	8145-00	6145-00
S804500	8045-00	6045-00	S814520	8145-20	6145-20
S804520	8045-20	6045-20	S814521	8145-21	6145-21
S814100	8141-00	6141-00			

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