

Defrost Controls



No. 5X450

Defrost commercial frozen food cabinets, dairy, delicatessen, and vegetable display cases, and walk-in coolers. Nos. 5X452 to 5X456 are UL Listed. Nos. 5X454 to 5X456 are CSA Certified. No. 1TGD6 is UL873 NSF Certified.

TIMERS FOR WATER SPRAY DEFROST CONTROL WITH PUMP-DOWN DRAIN OR FAN DELAY CYCLES

Defrost initiation: 1 to 8 cycles per day, at least 3 hrs. between cycles. Delay or pump-down cycles: 0 to 30 min. in 3-min. increments; for stopping fans, reducing refrigerant pressure, or hot gas pump-down cycle. Defrost cycles: 3 to 45 min. in 3-min. increments. Drain or fan cycles: 3 to 15 min. in 3-min. increments.

GENERAL-PURPOSE TIMERS FOR DAILY PROGRAMMING OF DEFROST CYCLES

Manual override temporarily reverses switch operation without disturbing preset schedule. Defrost cycles: up to 7 per day, 90 min. or longer.

TIME-INITIATED AND TIME-TERMINATED DEFROST CONTROLS

Choice of 4 contact arrangements for electric heat, hot gas, or compressor shutdown defrost. Defrost/initiation cycles: 1 to 6 per day, at least 4 hrs. between operations. Dial overlay changes defrost time from even- to odd-numbered hours. Defrost cycles: 4 to 110 min. in 2-min. increments. Case has heavy steel enclosure with padlock hasp.

TIME-INITIATED, REMOTE-TEMPERATURE, OR PRESSURE-TERMINATED DEFROST CONTROLS

Work with external temperature or pressure sensor. Choice of 3 contact arrangements for electric heat, compressor shutdown, or hot gas defrost. Defrost cycles: 1 to 6 per day, at least 4 hrs. between cycles. Dial overlay changes defrost time from even- to odd-numbered hours. Backup defrost termination: 4 to 110 min. in 2-min. increments. Case has heavy steel enclosure with padlock hasp.

TIME-INITIATED, PRESSURE-TERMINATED DEFROST CONTROLS

Direct readout dial. Modular pressure bellows. 3 contact arrangements for hot gas, electric heat, or compressor shutdown defrost. Defrost cycles: 1 to 6 per day, at least 4 hrs. between cycles. Dial overlay changes defrost time from even- to odd-numbered hours. Backup defrost termination: 4 to 110 min. in 2-min. increments. Adjustable cut-in pressure-setting dial calibrated from 36 to 100 lbs. Case has heavy steel enclosure.

UNIVERSAL DEFROST TIMER

Multivoltage timer is easy to program with time and defrost start/finish. Manual defrost can be initiated in 15-min. intervals. Wires directly to 120VAC, 208VAC, or 230VAC power sources without jumpers or switches; fits standard Paragon enclosures. Provides 100 hrs. of power loss protection. System status indicators and lighted display.

Voltage	Contact Type*	Max. Load Rating, Amps	Mfr. Model	Item No.	\$ Each
Timers for Water Spray Defrost Control with Pump Down Drain or Fan Delay Cycles					
120	2 NO,2 NC	10	632-0	5X450	✓ 324.00
208/240	2 NO,2 NC	10	632-20	5X451	✓ 332.25
General-Purpose Timers for Daily Programming of Defrost Cycles					
120	SPST	40	4001-0	5X452	✓ 68.45
208/277	DPST	40	4004-71	5X453	✓ 83.75
Time-Initiated and Time-Terminated Defrost Controls					
120	SPDT	40	8045-0	5X454	✓ 166.75
208/240	SPDT	40	8045-20	5X455	✓ 176.00
208/240	2 NO,1 NC	40	8047-20	5X456	✓ 187.00
Time-Initiated, Remote-Temperature, or Pressure-Terminated Defrost Controls					
120	1 NO,2 NC	40	8141-0	5X457	✓ 197.00
120	SPDT	40	8145-0	5X458	✓ 183.25
208/240	SPDT	40	8145-20	5X459	✓ 167.00
Time-Initiated, Pressure-Terminated Defrost Controls					
208/240	SPDT	40	8245-20	5X460	✓ 346.00
Universal Defrost Timer					
120/208/240	1 SPDT, 1 SPST	30	9145-00	1TGD6	✓ 183.50

(*) NO=Normally Open; NC=Normally Closed.

Temporary Universal Cold Control



Provides efficient temporary control of refrigeration until exact control is available. Use with refrigerator-freezers or stand-alone freezers.

Robertshaw

Switch Type	Control Range (°F)	Temp. Differential High (°F)	Capillary Length (In.)	Voltage	Mfr. Model	Item No.	\$ Each
SPST	-2 to 38	6	9	120/240	CC-1	3PE19	39.95

Refrigeration/Defrost Control



No. 1TGD4

Microprocessor-based controller manages all temperature and defrost functions in a typical piece of commercial refrigeration equipment, replacing up to 5 controls. Features 2 NSF-approved temperature sensors for the case and the evaporator, and 4 relay outputs for compressor, fan, defrost, and alarm. Line voltage input power is selectable 120/208/240VAC at 50/60 Hz, enabling use on a wide range of equipment. UL873 NSF Certified.

Replacement sensor includes 10-ft. cable. Sensor can be expanded to 100 ft. using additional 18-ga. shielded cable.

Uses: For use with electric, hot gas, or timed-off defrost applications controls.

Description	Switch Type	Control Range (°F)	Temp. Differential High	Temp. Differential Low	Mfr. Model	Item No.	\$ Each
Refrigeration/Defrost Control	4 SPDT	-40 to 60	25	1	ERC2-212111-370	1TGD4	✓ 241.00

Description	For Use With	Remarks	Mfr. Model	Item No.	\$ Each
Replacement Sensor	1TGD4, ERC2 Series	2 Sensors To Each 1TGD4, ERC2 Series Control	1309007-045	1TGD5	3.28

Residential Defrost Timers



No. 6X629

Direct replacements for defrost timers in household refrigerators and freezers. No drilling, tapping, or adapter plugs needed. 10A noninductive, 1/3 HP, 120VAC. CSA Certified and UL Recognized.

Defrost Freq. (Hrs.)	Defrost Time (Min.)	Mfr. Model	Item No.	\$ Each
6	21	E-1111*	6X629	21.02
8	18	D-1111**	6X630	21.44
8/10/12	21	E-769-00	6X631	24.39
6	28	A-1111†	6X632	20.10
6	25	B-1111‡	6X633	21.44
8	21	E-931	4E057	21.86
8	30	D-769-00	6X869	23.78

(*) Direct replacement for JE-539 and A-769. (**) Direct replacement for KA-539 and B-769. (†) Direct replacement for NE-539 and F-769. (‡) Direct replacement for NA-539 and G-769.

Bypass Timer



- Universal input voltage: 18 to 240VAC, 1 amp, 10 amp inrush
- Knob-adjustable time delays: 10 to 1000 sec.



Bypasses a low-pressure switch or an oil-pressure switch on startup. Helps reduce nuisance lockouts. Epoxy encapsulated circuitry.

Cross-Reference*	Mfr. Model	Item No.	\$ Each
Mars Model	Supco Model		
32395	TDP68	ICM175	3UW85

(*) Physical dimensions vary by manufacturer.