

<http://waterheatertimer.org/Intermatic-Defrost-timers-and-manuals.html>

## G8000 Series

### Mechanical Defrost Timer

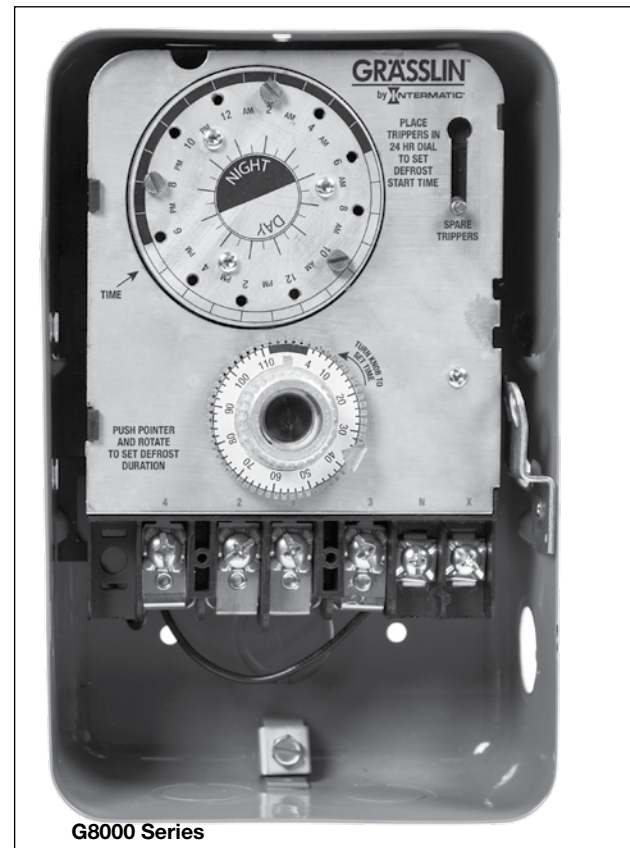
The Grässlin G8000 Series Mechanical Defrost Timer is applicable to air defrost (compressor shutdown) and electric or hot gas defrost systems where the defrost is terminated by the timer. If the coil is frost free, the timers can also be terminated by temperature or pressure switches before the programmed defrost termination time has been reached. The time termination functions as a fail-safe and terminates the defrost cycle if the temperature or pressure switch fails to do so. The series is designed to exceed the UL873 Refrigeration standard by providing reliable operation for over 30,000 cycles.

### Features

- Encapsulated timer module design prevents dust and dirt buildup
- Heavy-duty synchronous motor for accurate time keeping
- Mounts in existing enclosures, no tools required
- Heavy-duty welded and silver-plated 40 amp contacts
- Defrost durations programmable in 2 minute increments
- Exceeds UL873 Refrigeration standard for 30,000 cycle switching design
- Up to 6 defrost cycles per day
- Works with external temperature or pressure switches
- Includes 4 trippers and spare tripper holder is built-in
- Min defrost time: 4 minutes
- Max defrost time: 110 minutes

### Ratings

|                           |   |
|---------------------------|---|
| Input Voltage:            | 120 or 208-240 VAC 60HZ   |
| Electrical Ratings:       | 40 Amp Resistive 120-240 VAC<br>2 HP 120-240 VAC<br>1000VA Pilot Duty |
| Operating Temperature:    | -40° F to 104° F (-40°C to 40°C)                                      |
| Enclosure:                | UL Type 1<br>(No enclosure provided with "B" versions)                |
| Min ON/OFF:               | 4 minutes   |
| Max ON/OFF:               | 110 minutes   |
| Electrical Life:          | 30,000 Operations at full load  |
| Large terminal wire size: | 8-14 AWG  |
| Small terminal wire size: | 12-18 AWG   |
| Shipping Weight:          | 2.75 lbs.   |
| Warranty:                 | Limited 2 year  |



G8000 Series

| Model    | VAC 60 Hz | Switch Type   | Description  |
|----------|-----------|---------------|--|
| G8045-00 | 120       | 1 N.O./1 N.C. | Time Initiated, Time Terminated                            |
| G8045-20 | 208-240   | 1 N.O./1 N.C. | Time Initiated, Time Terminated                            |
| G8145-00 | 120       | 1 N.O./1 N.C. | Time Initiated. Temperature, Pressure, or Time Terminated. |
| G8145-20 | 208-240   | 1 N.O./1 N.C. | Time Initiated. Temperature, Pressure, or Time Terminated. |

\*For bracket mount (Comes in bulk packs of 20, No Enclosure) Add "B" to model number (i.e. G8045-00B)

## Specification

Furnish and install a Grässlin \_\_\_\_\_ defrost control, which shall have up to 6 defrost cycles per day with initiation times settable in 2 minute increments from 4-110 minutes. The defrost timer shall be housed in a UL Type 1 indoor metallic enclosure or be supplied with suitable bracket mount. The contacts shall be 1N.O / 1N.C and rated for 40A Resistive, 2 HP @ 240 VAC. Defrost termination to be by time (or by a remote temperature or pressure switch). Defrost time switch shall comply with UL Refrigeration standard UL873.

## Diagrams

