

Condenser Solutions



D3 Defrost Control

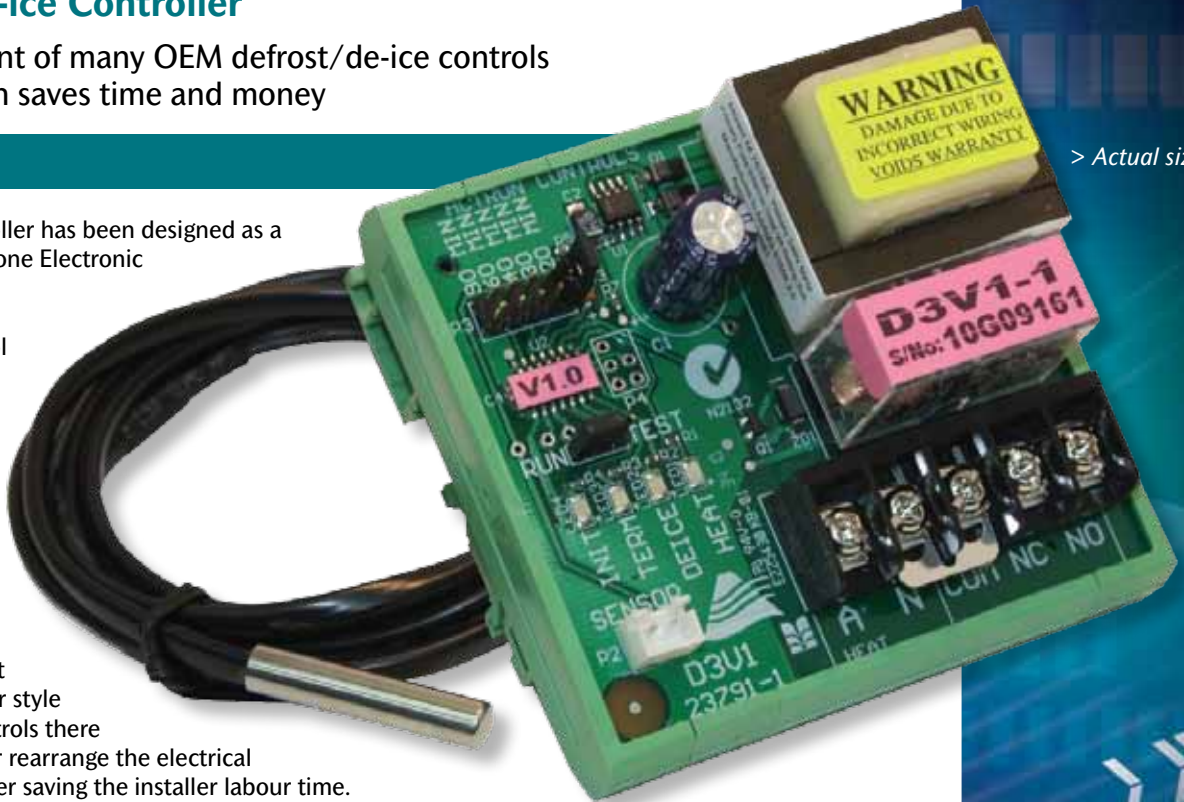
Electronic De-ice Controller

- Fits the footprint of many OEM defrost/de-ice controls
- Fast installation saves time and money

Overview

The D3 Defrost controller has been designed as a simple to use stand-alone Electronic De-ice Controller.

The D3 Defrost control is also the ideal replacement for many of the old style mechanical or electronic defrost controls that have failed and cannot be repaired due to age or availability. By keeping the same Din rail mounting footprint and wiring as the older style electronic defrost controls there is no need to rewire or rearrange the electrical panels of the condenser saving the installer labour time.



> Actual size

D7 Condenser Management System

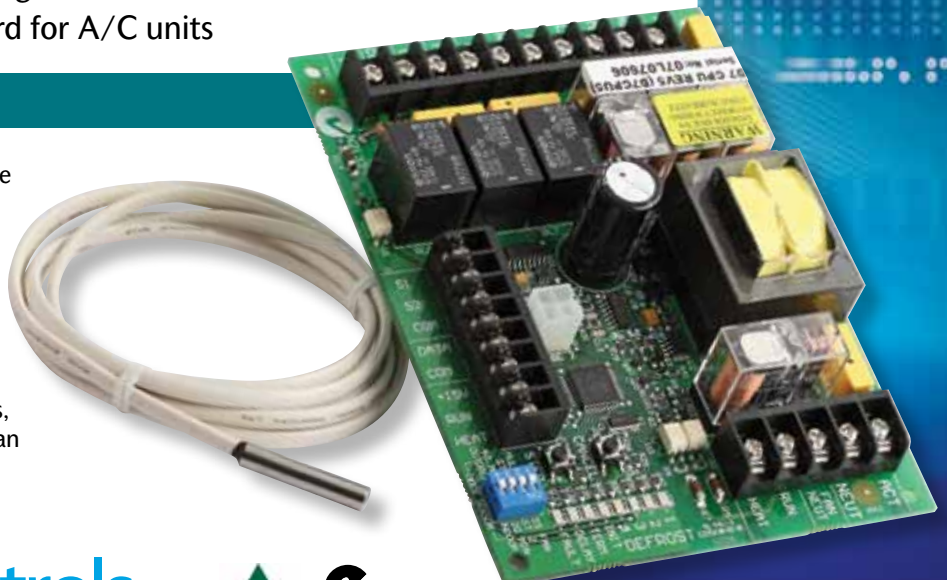
Electronic Condenser Controller

- Stand alone micro controlled management board for condensers
- Modern retrofit management board for A/C units

Overview

The D7 control has been designed as a complete condenser control solution for Air-cooled Heatpumps, it is designed as a stand alone management board that can interface not only with the Leasam range of controls but will work with most other brands of thermostats.

The D7CPU will minimize wiring as it provides all the required terminals for the HP/LP safeties, compressor contactor, 4 way valve, condenser fan and control fuse.



D3 Defrost Control

Features

Din rail mounting (H 54mm x L 79mm x W 78mm)	2 mtr double insulated coil sensor
10A Relay	Test mode
Adjustable run times	24 month warranty

D3 Specifications

De-ice initiation temperature	-5.0 °C
De-ice termination	10 minutes or +10.0 °C whichever happens first
De-ice confirm time	3 minutes
De-ice time	10 minutes (maximum)
De-ice pending time selectable	20, 30, 40, 60, 90 minutes (20 minutes as defaults if no selection)
Operation mode selectable	“RUN” or “TEST” (“RUN” as default)
Heat call signal	230Vac +/- 10%, 50Hz
Operation indication	Four coloured LEDs (“HEAT”, “DEICE”, “TERM”, “INIT”)
Maximum switching capacity	16 Amps resistive, 8 Amps inductive at PF=0.4
Power consumption	Approx 0.3VA ~ 0.7VA at rated voltage
Ambient temperature & humidity	Operation: - 10°C to 50°C, 10% to 85% non condensing

Safety Features

The D3 has built in safety features to prevent damage to the condensing coil in the unlikely event of a sensor failure.

1. If coil temperature sensor is faulty, the de-ice operation will default to the selected de-ice pending time (i.e.: if 30 minutes de-ice pending time is selected a defrost cycle will occur every 33 minutes for 10 minutes (30 min running + 3 min confirm time) regardless of coil temperature).
2. If no de-ice pending time is selected, it will default to 20 minutes de-ice pending time.
3. If more than one de-ice pending time is selected, the longest de-ice pending time will be used.
4. If no “RUN/TEST” mode is selected, it will default to “RUN” mode.

D7 Management System

Features

HP/LP Control	1.5 mtr Double insulated coil sensor
Mounting plate for easy installation (170mm x 110mm)	Single or 3 speed condenser fan control
Adjustable run times 20/40 minutes	Anti cycle time delay (5 minutes)
Product engineering support (Ph: 1300 135 735)	12 month warranty

D7 Specifications

De-ice initiation temperature	-5.0 °C
De-ice termination	10 minutes or +10.0 °C whichever happens first
De-ice confirm time	5 minutes
Smart pre-heat after De-ice	Indoor fan delay
De-ice pending time selectable	20 minutes or 40 minutes
Service buttons	Step De-ice and cancel time delays
De-ice LED indication	LEDs 1-4 De-ice mode
Operation LED indication	Four Coloured LEDs (“TERM”, “INIT”, “DELAY”, “FAULT”)
Safety trip protection	High/Low pressure
System lockout	On 4th HP/LP trip
Ambient temperature and humidity	Operation: - 10°C to 50°C, 10% to 85% non condensing

Distributor details

From the Leasam Range of Control Solutions



Technical Support 1300 135 735