



APPLICATIONS:

APPLIANCE / ELECTRICAL / HVAC/R / MARINE / POOL & SPA / RV

MODE OF OPERATION

The ICM-UDefrost board monitors thermostat calls for Y, O/B and Win inputs. During a heat call, if conditions for defrost are met, the control will perform a time and temperature defrost cycle. During normal operation, the control continuously monitors safeties such as the low-pressure switch, high-pressure switch, brownout detection, and sensor health while displaying status and fault conditions via onboard LED diagnostics.

THE NEED FOR UNIVERSAL DEFROST CONTROLS

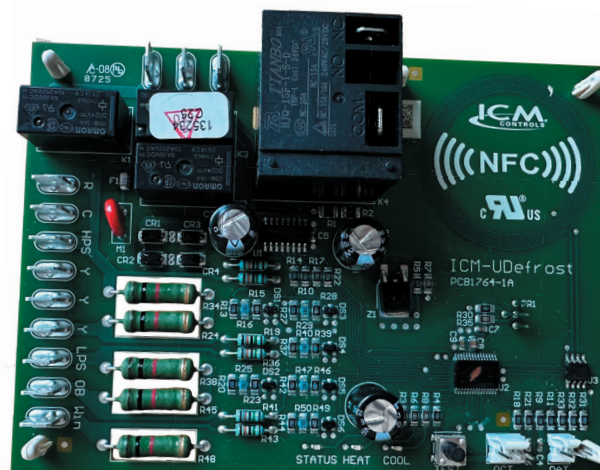
With the high cost and limited access to OEM replacement boards, the need for a singular Universal defrost control board which replaces the function of nearly all time & temperature heat pump defrost controls is a must. ICM controls has what you need with the ICM-UDefrost board. The added benefit of selecting the ICM-UDefrost is the ease of configuration using the ICM OMNI mobile App downloaded free to your Apple or Android Mobile device.

FEATURES & BENEFITS

- ✓ Universal time & temperature defrost board for heat pumps
- ✓ Configurable settings with NFC
 - Compressor anti-short cycle delay
 - High ambient temperature auxiliary heat lockout
 - Low ambient temperature compressor lockout
 - Defrost end & defrost enable temperature
 - Defrost interval timer
 - Max defrost time
 - Quiet shift
 - Compressor staging delay (after brown out or at power up)
 - Heat active/cool active reversing valve configuration
- ✓ Field test mode
- ✓ Brownout protection
- ✓ Led indicators to aid in troubleshooting

REPLACES

The ICM-UDefrost replaces all legacy ICM Controls defrost boards and their associated crosses



SPECIFICATIONS

Inputs:

- Power Supply
 - R, C (24VAC, 50/60 Hz)
- Thermostat (Win)
 - 24VAC, 24mA
- Low Pressure Switch (LPS)
 - 24VAC
- High Pressure Switch (HPS)
 - 24VAC
- Outdoor Ambient Thermistor (OAT)
 - 10K ohm
- Outdoor Coil Sensor (OCT)
 - 10K ohm
- Field Test Button

Outputs:

- Fan
 - N.C. ; 1/2HP, (2.7 FLA), 240 VAC
- Compressor Contactor
 - 24VAC, 1A, Pilot Duty
- Reversing Valve (O/B)
 - 24VAC, 1A, Pilot Duty
- W2
 - 24VAC, 1A, Pilot Duty

Environment:

- Operating Ambient Temperature
 - 40°C to 70°C
- Shipping and Storage Temperature
 - 40°C to 75°C