



47D Series

47D SERIES DEMAND DEFROST CONTROL

Microprocessor-Based Controls Designed to Detect Ice Build-Up on the Outdoor Coil in a Heat Pump System and Defrost the Coil by Reversing the Direction of Refrigerant Flow. Replaces Rheem Models

FEATURES

- Demand defrost algorithm “self-calibrates” to the heat pump system.
- Compressor contactor relay control for short-cycle protection, and noise reduction while reversing valve shifts.
- Dipswitch-selectable defrost termination temperature (50/60/70/80°F).
- Kits Include replaceable ambient and coil temperature sensors.
- LED diagnostic display.

SPECIFICATIONS

Electrical Ratings [@ 77°F (25°C)]:

Rated Voltage	24 VAC
Rated Voltage Range	18-30 VAC
Max. Power Consumption @ 24 VAC	4.08 VA
Nominal Frequency	50/60 Hz

Relay Load Ratings:

Compressor Contactor Relay (CC, only used in 47D40-801)	20 VA in rush, 6 VA holding
Reversing Valve Relay (RV)	24 VA
Auxiliary Heat Relay (D)	1 Amp. 0.6 P.F.
Operating Temperature Range	-40° to 150°F (-40o to 65°C)
Humidity Range	5% to 95% relative humidity (non-condensing)

Timing Specifications @ 60Hz*	Nom.	Units
Defrost Lockout Time	34	Mins
Maximum Defrost Time	15	Mins.
Maximum Frosting Time	6	Hrs.
Short Cycle Lockout Time	5	Mins.
Noise Abatement Time	5	Sec.

NOTE: 50Hz Timings are 20% longer

Model Number	Hi/Lo Pressure Switch Inputs	Outdoor Fan Relay	Mounting	Dimensions
47D40-801	No	PSC 1-speed	Metal Standoffs	3.375" x 3.625"
47D43-811	Yes	PSC or ECM, 1-speed	Plastic Standoffs	3.5" x 5.5"

COOLING / REFRIGERATION