

AVION



DFT SERIES Demand Defrost Timer Control

The Avion DFT Series electronic demand defrost controls provide a simple, low cost, and effective method of defrost for heat pumps. The system is suitable for most equipment requiring defrost including:-

- Air Sourced Heat Pumps
- Commercial Refrigeration Equipment

APPLICATIONS

Performance and efficiency are impaired when ice is allowed to build up on the outdoor heat exchanger of air sourced heat pumps. By providing an effective means of monitoring this build up, it is possible to invoke one of various methods of defrost.

FEATURES

- Quick and Easy Installation
- Compact 80mm x 80mm Footprint
- Standard 35mm DIN (Omega) rail or screw mounting
- Solid State Design - Provides Accuracy and Reliability
- Voltage Free Changeover Contacts
- Robust Temperature Sensor - No delicate capillary tube & bulb subject to breakage
- Instantaneous Defrost - Unique dual timer design allows defrost to begin immediately upon coil temperature falling to initiation temperature, provided that any defrost inhibit period has been previously completed. No additional delay is imposed
- Visual LED Indication of Control Status
- Convenient "Test" Jumper for Field Testing - By placing a shorting jumper (provided) across the "Test" pins, all time delays in the control sequence will be shortened by a factor of 64 to enable a field technician to thoroughly check all aspects of the defrost system. Normal operations are resumed by removing jumper

OPTIONAL ACCESSORIES

- 2, 5, 10, 15 or 20 metre sensor cable lengths.
- Temperature sensor simulator unit.

SPECIFICATIONS

Model (24 VAC):	DFT131	DFT132	DFT133	DFT134	DFT135	DFT136
Model (115VAC):	DFT111	DFT112	DFT113	DFT114	DFT115	DFT116
Model (230 VAC):	DFT121	DFT122	DFT123	DFT124	DFT125	DFT126
Defrost Initiation at Temperature Fall						
Initiation Point:	-5°C	-5°C	-5°C	-5°C	-5°C	-2°C
Defrost Termination at Temperature Rise or Maximum Time						
Termination Point:	+10°C	+10°C	+10°C	+10°C	+10°C	+15°C
Maximum Defrost:	5min	10min	15min	10min	10min	10min
Defrost Inhibit (between subsequent defrosts)						
Minimum Interval:	30min	60min	90min	30min	30, 60 or 90min	
Common Specifications						
Accuracy Temp:	± 0.5°C, Time ± 5%					
Diagnostics:	All timing sequences ÷ 64					
Storage Ambient:	- 40 ~ + 90°C and 10 ~ 90% RH					
Operating Ambient:	- 30 ~ + 80°C and 10 ~ 90% RH					
Relay Contacts:	SPDT - 16 Amp @ 250 VAC (cos θ = 1.0)					
Power Supply:	24, 115 or 230 VAC - 50/60 Hz (± 10%)					
Power Consumption:	1.2 VA (Maximum)					
Weight:	190g					
Dimensions:	80mm (H) x 80mm (W) x 40mm (D)					
Temperature Sensor:	NTC Thermistor - 5 K Ω @ 25° C					
Sensor Cable Length:	1m					

Note: Custom configurations are available on request.

TYPICAL WIRING DIAGRAM

