Product Information Sheet
EDF-02A Microprocessor Defrost Control

General Description:

Performance and efficiency of an air-cooled heat pump can be reduced when uncontrolled ice build-up is allowed to continue to form on the outdoor heat exchanger. The EDF-02A demand defrost controller is suitable for Heat Pumps, Reverse Cycle Air Conditioners, Swimming Pool and Spa's heaters and other HVAC equipment requiring accurate and reliable defrost control.

Operation:

While the reverse cycle air conditioner (heat pump) is in heating operation, the sensor will continuously
monitor the outdoor coil temperature. Once the coil reaches minus 2 ^{o}C, the **MJB** EDF-02A will go through the following sequences:

1. Defrost Verification Mode
2. Defrost Pending Mode
3. Defrost Mode
4. Defrost Termination
5. Normal Mode

The above sequence will also be reset should the temperature rise above 10 ^{o}C during the defrost pending time period.

Also included as standard on the **MJB** EDF-02A is a test function to enable the field technician to thoroughly check all aspects of the defrost system. In test mode all time sequences are divided by 64.

The **MJB** EDF-02A defrost controller is our latest offering using microprocessor technology; this technology provides greater accuracy and flexibility and through the use of the **MJB** EDF-02A on-board flash-programming socket, customer specific requests have never been easier.

EDF-02 Specifications:

Input Voltage	240V, 24V AC. (Model dependant)
Switching Capacity	16 Amps Resistive 8 Amps at cos 0.4 (480 w).
Defrost initiation	- 2°C.
Defrost Time	10 min.
Defrost Termination	10 ^{o}C or 10 Minutes (Time vs. Temperature).
Defrost Confirmation	4 minutes.
Pending Mode	Self Adapting.
Sensor Length	2 Metre (10 Metre on request).
Size	72 mm x 76 mm.
Mounting	35, 32, or 15mm Din Rail.

The **MJB** EDF-02A also has LED indication of running status and fault diagnostics. (i.e. Ready, Pending, Sensor fault, Defrost mode, Sensor temperature etc.)