

# DUAL EVAPORATOR CABINET CONTROLLER TIMED DEFROST

ECME

Type ECME is a unit suitable for the control of the George Barker refrigerated display cabinets with 2 evaporators where defrosts are controlled locally according to time of day. The unit controls the cabinet temperature by measuring three air temperatures and operating a common evaporator liquid solenoid valve.

Up to 6 defrosts per day can be achieved by setting a schedule of defrost start times and durations in the unit. Defrosts are terminated when the temperature of the air leaving the evaporator adjustable defrost termination value, or when an adjustable time is reached.

The unit detects and indicates high temperatures. The alarm level and its response time are adjustable. High temperature alarms are cancelled during defrost.

Average cabinet temperature together with simple alarm and defrost mode messages can be indicated using a JTL display unit.

Type ECME provides comprehensive alarm reporting, data-logging and remote access when connected to a JTL Communications Unit.

Type ECME is ideal for use with electric defrost systems.

## FEATURES

- ◆ Up to 6 timed defrosts per day
- ◆ Default data set-up switches
- ◆ Temperature measurement inputs
- ◆ Non-volatile set-up memory
- ◆ Temperature display drive
- ◆ Watchdog to ensure reliable operation
- ◆ Relay Outputs
- ◆ Battery supported data-logging memory
- ◆ Maintenance unit socket
- ◆ Communications socket
- ◆ Battery supported real-time clock

## HARDWARE

- ◆ Temperature probe inputs . . . . . 7
- ◆ Probe types supported . . . . . Tempkey
- ◆ Temperature display drives . . . . . 1
- ◆ Voltage-free contact outputs . . . . . 2
- ◆ Voltage-free contact inputs . . . . . 0
- ◆ Data logging memory capacity . . . . . 80 points on 8 channels



## TECHNICAL SPECIFICATION

Temperature probe input 1	.....	Air On (Evaporator No. 1)
Temperature probe input 2	.....	Air Off
Temperature probe input 3	.....	Evaporator (Evaporator No.1)
Temperature probe input 4	.....	Suction Line (Evaporator No. 1)
Temperature probe input 5	.....	Air On (Evaporator No. 2)
Temperature probe input 6	.....	Suction Line (Evaporator No. 2)
Temperature probe input 7	.....	Evaporator (Evaporator No. 2)
Output 1	.....	Liquid valve control (Normally closed valve)
Output 2	.....	Defrost control
Relay output rating	.....	1 A resistive (240 V max).
Unboxed Dimensions (LxWxH)	.....	208 x 88 x 40 mm
Unboxed Weight	.....	0.36 kg
Power supply (standard)	.....	240 V 48-62 Hz (optional) 110 or 220 V

## ORDERING INFORMATION

ECME ..... Printed circuit board only

### Power Supply Options:

For 110 V append - 110 to order code

For 220 V append - 220 to order code

For suitable enclosures see appropriate datasheet.

Doc No. 00920 ECME\_datasheet.wpd Issue 1 Nov 1993

## JTL SYSTEMS LTD

Sales: 41 Kingfisher Court, Hambridge Road, NEWBURY, Berkshire, RG14 5SJ  
Service: 1 Petre House, Petre Street, SHEFFIELD, S. Yorks, S4 8LJ

Tel: (01635) 263646  
Tel: (0114) 256 0908