

CABINET CONTROLLER SENSED DEFROST

ECDH

Type ECDH is a unit suitable for the control of refrigerated display cabinets with 2 evaporators where one evaporator is used to control the cabinet temperature and the other to control the air curtain temperature. Defrost is initiated by external equipment. The unit controls the cabinet temperature by measuring two air temperatures and operating the evaporator liquid solenoid valve.

The air curtain temperature is controlled by an independent pressure regulation valve.

Defrost is detected by a probe mounted on the suction line or, by communications.

The defrost is terminated when the temperature of the air leaving the air curtain evaporator exceeds an 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.

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

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

FEATURES

- ◆ Temperature display drive
- ◆ Non-volatile set-up memory
- ◆ Relay outputs
- ◆ Watchdog to ensure watchdog operation
- ◆ Maintenance Unit socket
- ◆ Data-logging memory
- ◆ Communications sockets
- ◆ Comms Initiated defrost option
- ◆ Default data set-up switches

HARDWARE

- ◆ Temperature probe inputs 7
- ◆ Probe types supported Tempkey, Elm
- ◆ Temperature display drives 1
- ◆ Voltage-free contact outputs 2
- ◆ Voltage-free contact inputs 0
- ◆ Data logging memory capacity 1000 points on 3 channels



TECHNICAL SPECIFICATION

Temperature probe input 1	.....	Air on
Temperature probe input 2	.....	Air off(cabinet)
Temperature probe input 3	.....	Air off (curtain)
Temperature probe input 4	.....	Evaporator (cabinet)
Temperature probe input 5	.....	Evaporator (curtain)
Temperature probe input 6	.....	Suction line (cabinet)
Temperature probe input 7	.....	Suction line (curtain)
Output 1	.....	Liquid valve control (Normally closed valve)
Output 2	.....	Defrost termination (normally open valve)
Relay output rating	.....	1 A resistive (240 V max.)
Unboxed dimensions (LxWxH)	.....	208 x 88 x 40mm
Unboxed Weight	.....	0.36 kg
Boxed Dimensions (LxWxH)	.....	402 x 107 x 54mm
Boxed Weight	.....	1.75 kg
Power supply (standard)	.....	240 V 48-62 Hz
(optional)	.....	110 or 220 V

ORDERING INFORMATION

ECDH 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. 00879 ECDH_datasheet.wpd Issue 1 Sept 1993

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