HUMIDITY & HEATING CONTROLLER

LCCH

The LCCH is a unit suitable for the control of room where heating and cooling is required. The unit controls the room temperature and humidity by operating the evaporator liquid solenoid valve and electric heaters.

The unit can be set for terminating or **controlling the evaporator defrost**. Defrost is detected by a probe mounted on the suction line, a contact input, JTL network communications or a real time clock within the unit. Up to 12 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 **defrost termination** sensor exceed an adjustable defrost termination value, or when an adjustable time is reached.

Evaporator **fans** are run while refrigerating and are stopped during defrost and defrost recovery. The **pan heater** output is turned on during defrost, remains on for an adjustable drain-down period and is off at all other times. The unit detects and **alarms high temperatures**. The alarm level and its response time are adjustable. High temperature alarms can be cancelled during defrost and defrost recovery.

The fans may be stopped when the **room door** is open and an alarm is raised if the door remains open beyond an adjustable time limit. The time the door is open currently and the time the door has been open over the previous 24 hours are also monitored.

Room temperature together with simple alarm and defrost mode messages can be indicated locally using a JTL **display** unit. Pushbuttons on the display unit can be used to allow the display to indicate the individual probe temperatures and other useful data.

A **plant alarm** input can be provided for local and remote indication. The controller can be isolated remotely providing capability for standby unit operation.

Type LCCH provides comprehensive alarm reporting, **data-logging** and **remote access** when connected to a JTL Communications Unit. Type LCCH is ideal for use with off cycle, electric, 2 or 3 pipe or ring main gas defrost systems.

FEATURES

- **Ë** JTL network communications socket
- Ë Temperature measurement inputs
- **Ë** Humidity input
- **E** Temperature display drive
- **Ë** Relay outputs
- **Ë** Maintenance Unit socket
- Ë Up to 12 timed defrosts per day
- **E** Network initiated defrost
- **Ë** Defrost contact input
- **E** Suction temperature defrost detection
- E External alarm input for plant
- **Ë** Remote isolation facility
- **E** Network initiated shutdown facility
- **E** Door switch monitoring
- **E** Default data set-up switches
- Ë Non-volatile set-up memory
- Ë Watchdog to ensure reliable
- **E** Battery supported data-logging memory
- **E** Battery supported real-time clock



HARDWARE

Temperature display type LED1 or LED5

Data-logging memory capacity 800 points on 4 channels

TECHNICAL SPECIFICATION

Output 1 Suction valve or pan heater control

Output 2 Fan control

Output 3 Liquid valve control (Normally closed valve)

Output 4 (changeover contact) Defrost control

Output 5 Heater

Relay output rating 5 A resistive (240 V max)

Input 1 Door Switch

Input 2 Plant alarm or Defrost input

(selectable)

Controller dimensions (LxWxH) 208 x 167 x 43 mm

ORDERING INFORMATION

Power Supply Options:

For 110 V append - 110 to order code



This unit conforms with the relevant EU standards when fitted in accordance with its installation instructions

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ITL SYSTEMS LTD

Sales: 41 Kingfisher Court, Hambridge Road, NEWBURY, Berkshire, RG14 5SJ Tel: (01635) 263646
Service: 1 Petre House, Petre Street, SHEFFIELD, S. Yorks, S4 8LJ Tel: (0114) 256 0908

www.jtl.co.uk