

BLAST CHILLER CONTROLLER WITH TIME CLOCK

ECBC

The ECBC is a unit suitable for the control of blast chillers where defrosts are controlled locally according to time of day. The unit controls the blast chiller temperature by measuring two air temperatures and operating the evaporator solenoid valve.

Blast chilling is initiated by contact input.

Up to 6 defrosts per day can be achieved by setting a schedule of defrost start times and durations in the unit. Defrost is automatically initiated after blast chilling is completed. Defrosts are terminated when the temperature of the 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.

An alarm is raised if the door remains open beyond an adjustable time limit.

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

The controller can be isolated remotely providing capability for standby unit operation.

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

FEATURES

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

HARDWARE

- ◆ Temperature probe inputs 4
- ◆ Probe types supported Tempkey
- ◆ Temperature display drives 1
- ◆ Voltage-free contact outputs 2
- ◆ Voltage-free contact inputs 2
- ◆ Data-logging memory capacity 350 points on 2 channels



TECHNICAL SPECIFICATION

Temperature probe input 1	.....	Air On
Temperature probe input 2	.....	Air Off
Temperature probe input 3	.....	Evaporator
Temperature probe input 4	.....	Suction Line
Output 1	.....	Liquid valve control (Normally closed valve)
Output 2	.....	Defrost Control
Relay output rating	.....	1 A resistive 240 V max
Input 1	.....	Door Switch
Input 2	.....	Blast chilling
Unboxed dimensions (LxWxH)	.....	208 x 194 x 43mm
Unboxed weight	.....	0.57 kg
Power supply (standard)	.....	240 V 48-62 Hz
(optional)	.....	110 or 220 V

ORDERING INFORMATION

ECBC 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.

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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