

### **BASIC FAULT FINDING**

Loss of cooling- Check power supply

- Check gasket is sealing properly
- Ensure that door has not been left open

Loss of display - Check power supply

Alarm codes - Phone our Technical Department with Alarm Code details



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# **OSBORNE REFRIGERATORS LTD**



**MM2SC / MM3SC / MM9 / MM10**

**INSTALLATION AND USER  
MANUAL**

## INTRODUCTION

Osborne refrigerated cabinets are designed to store beverages and foodstuffs conveniently and efficiently. With a little care, as described in this manual, they should give a long and trouble free life.

## UNPACKING

Check the packaging for obvious signs of damage before unwrapping, and contact your supplier if you are concerned about its condition. If the cabinet has been stored horizontally in transit, allow it to stand upright for an hour before plugging power cord into supply.

## ELECTRICAL CONNECTION

The cabinet is complete with a factory-fitted plug suitable for a 220 volt / 13amp socket outlet. This appliance **must be** earthed.

## LOCATION

Do not site the cabinet near a source of heat, such as a boiler or radiator, or in direct sunlight. This will conserve energy and reduce running costs. Do not place the cabinet on uneven or carpeted floors - only a solid surface ensures unrestricted air intake from below. Install the cabinet on a level surface - this will minimise vibration. The cabinet should be vertical or leaning fractionally backwards - it **must not** lean forward. The cabinet requires a 50mm (2") air gap behind and above for ventilation or overheating may occur.

## CLEANING

Before use, and periodically thereafter, clean the inside of the cabinet with a soft cloth and a solution of one teaspoon of Bicarbonate of Soda (Sodium Bicarbonate), to one litre (1¾ pints) of warm water. Rinse with clean water and dry thoroughly. Clean the outside of the cabinet as necessary with mild detergent and warm water. Rinse with clean water and dry thoroughly. Ensure that the door seal and the front edge of the cabinet are thoroughly cleaned.

**Do not** use abrasives of any kind on the cabinet.

## WARNING

Liquids spilt on the gasket will cause the door to stick which will tear the gasket. Please clean regularly as instructed above

## RECOMMENDED OPERATION

This cabinet is designed to store foods and beverages.

Once the cabinet is stocked and in use, the cabinet should be left to run continuously. If the cabinet is to be taken out of commission for a period of time, switch off at the mains and prop the door open to allow air to circulate.

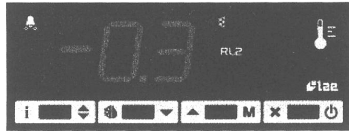







DESCRIPTION	INDICATIONS
	 Thermostat output  RL2 Auxiliary output  Alarm

Fig.1 — Front panel

 Info / Setpoint button.	 Increase / manual activation button.
 Manual defrost / Decrease button.	 Exit / Stand-by button.

### OPERATION

#### DISPLAY

During normal operation, the display shows either the temperature measured or one of the following indications:






<b>DEF</b> Defrost in progress	<b>HI</b> Room high temperature alarm
<b>REC</b> Recovery after defrost	<b>LO</b> Room low temperature alarm
<b>OFF</b> Controller in stand-by	<b>E1</b> Probe T1 failure
<b>CL</b> Condenser clean warning	<b>E2</b> Probe T2 failure
<b>DO</b> Door open alarm	

#### INFO MENU



The information available in this menu is:

<b>T1</b> Instant probe 1 temperature	<b>TLO</b> Minimum probe 1 temperature recorded
<b>T2</b> Instant probe 2 temperature	<b>CND</b> Compressor working weeks
<b>THI</b> Maximum probe 1 temperature recorded	<b>LOC</b> Keypad state lock






#### Access to menu and information displayed.

- Press and immediately release button .
- With button  or  select the data to be displayed.
- Press button  to display value.
- To exit from the menu, press button  or wait for 10 seconds.


#### Reset of THI, TLO, CND recordings

- With button  or  select the data to be reset.
- Display the value with button .
- While keeping button  pressed, use button .

#### SETPOINT (display and modification of desired temperature value)

- Press button  for at least half second, to display the setpoint value.
- By keeping button  pressed, use button  or  to set the desired value (adjustment is within the minimum SPL and the maximum SPH limit).
- When button  is released, the new value is stored.

#### STAND-BY

Button , when pressed for 3 seconds, allows the controller to be put on a standby or output control to be resumed (with SB=YES only).