

Operating Instructions

1. The freezer should be connected by an authorised electrician, or by the company which sold the freezer! Incorrect installation may damage the freezer.
2. Place the freezer on a flat floor which can take the weight of the freezer.
3. The electrical installation should be earthed.
4. Do not use extension cables, but connect the freezer directly to a fixed installation. If the freezer is connected to a long extension cable there is the risk that the cable will become hot.
5. The freezer should be placed in a dry location, and should not be subjected to water on the cabinet. If water gets into the electrical parts it may cause short-circuiting.
6. In the event of functional or electrical irregularities, please contact an authorised servicing engineer.
7. Do not put bottles containing carbonic acid or inflammable products in the freezer.

Disposal and scrapping of the freezer: Remove the lock, so that there is no risk of children getting locked in the freezer whilst playing.

Electrical Connection

The machine meets current EU directives. Low voltage 2006/95/E.E.C.
Electromagnetic compatibility 2004/108/E.E.C.

The machine should be given extra protection in accordance with the Electricity Supply Regulations in order to protect the user against dangerous electric shocks in the event of faults.

If the switch is for a three-pin plug, a three-pin plug should be used, and the conductor with yellow/green insulation should be connected to the Earth terminal.

The Cooling System

The vaporiser is built into the wall of the inner container. This will be - 50°C, so there is a risk of frost-bite if it is touched. Always use thermal gloves when touching the contents of the freezer.

The condenser is placed on the inside of the cabinet. This means that the outside of the cabinet gets hot when in operation. The advantage of a hot cabinet is that it will always be dry.

The advantage of freezing boxes is that only a minimum amount of heat gets in when they are opened and closed.

Thermostat with digital display. Once the freezer is cooled down, the set temperature and the temperature shown will be the same.

Installing the Freezer

1. Connect the plug from the unit to power. If the electrical connection (the plug) has to be changed, always let an authorised electrician install the freezer (read the operation instructions).
2. The freezer should be located in a dry, cool place, out of direct sunlight. The freezer gives off a great deal of heat when in operation. If the ambient temperature is too high, there is a risk that the freezer will not operate correctly. It is recommended that the room be ventilated, so that the room temperature does not exceed 30°Celsius at most. Class N.
3. Place the freezer on a solid and flat substrate. This will eliminate any vibration and irritating noise. The freezer should be placed with at least 10 cm free to the sides, at least 15 cm free at the back, and at least 100 cm free to the ceiling.

The installation should be fused with a 16 A fuse.

Before Commissioning

Clean the freezer both inside and out using a damp, wrung out cloth. Dry with a dry cloth.

The smell from the plastic parts in the freezer will disappear once the freezer has been cooled down.

Start Procedure

Put the plug in the socket. The freezer should run for at least 1 hours before the thermostat is changed. (Stabilisation of the cooling system).

Caution!

Do not place bottles or boxes containing carbonic acid or chemical agents in the freezer.

Do not place inflammable liquids such as ethane, petrol or alcohol in the freezer. Risk of explosion!

No bottles or tins should be placed in the freezer, as they could explode and cause injury to personnel.

Always use thermal gloves when operating the freezer, to reduce the risk of frost-bite.

In the event of repair work or corrective action in the installation in the machine room, the plug should always be removed! Repair work in the installation should be carried out by an authorised electrician!

CONTROL PANEL (Dixell XR30CX Controller)




- SET** To display target set point; in programming mode it selects a parameter or confirm an operation.
- (DEF)**  To start a manual defrost
- (UP)**  To see the max. stored temperature; in programming mode it browses the parameter codes or increases the displayed value.
- (DOWN)**  To see the min stored temperature; in programming mode it browses the parameter codes or decreases the displayed value.







Figure 1

 To switch the instrument off, if onF = oFF.







 **NOT USED**

KEY COMBINATIONS:



-  +  To lock & unlock the keyboard.
- SET +  To enter in programming mode.
- SET +  To return to the room temperature display.

USE OF LEDS



Each LED function is described in the following table

LED	MODE	FUNCTION
	ON	Compressor enabled
	Flashing	Anti-short cycle delay enabled
	ON	Defrost enabled
	ON	An alarm is occurring
	ON	Continuous cycle is running
	ON	Energy saving enabled
°C/°F	ON	Measurement unit
°C/°F	Flashing	Programming phase

HOW TO SEE THE MIN TEMPERATURE

1. Press and release the  key.
2. The “Lo” message will be displayed followed by the minimum temperature recorded.
3. By pressing the  key again or by waiting 5s the normal display will be restored.

HOW TO SEE THE MAX TEMPERATURE

1. Press and release the  key.
2. The “Hi” message will be displayed followed by the maximum temperature recorded.
3. By pressing the  key again or by waiting 5s the normal display will be restored.

HOW TO RESET THE MAX AND MIN TEMPERATURE RECORDED

1. Hold press the SET key for more than 3s, while the max. or min temperature is displayed. (rSt message will be displayed)
2. To confirm the operation the "rSt" message starts blinking and the normal temperature will be displayed.

MAIN FUNCTIONS

HOW TO SEE THE SETPOINT



1. Push and immediately release the SET key: the display will show the Set point value;
2. Push and immediately release the SET key or wait for 5 seconds to display the probe value again.

HOW TO CHANGE THE SETPOINT

1. Push the SET key for more than 2 seconds to change the Set point value;
2. The value of the set point will be displayed and the "°C" or "°F" LED starts blinking;
3. To change the Set value push the ▲ or ▼ arrows within 10s.
4. To memorise the new set point value push the SET key again or wait 10s.

HOW TO START A MANUAL DEFROST



Push the DEF key for more than 2 seconds and a manual defrost will start.

HOW TO CHANGE A PARAMETER VALUE

To change the parameter's value operate as follows:



1. Enter the Programming mode by pressing the Set and DOWN key for 3s (the "°C" or "°F" LED starts blinking).
2. Select the required parameter.
3. Press the "SET" key to display its value.
4. Use "UP" or "DOWN" to change its value.
5. Press "SET" to store the new value and move to the following parameter. To exit: Press SET + UP or wait 15s without pressing a key.

NOTE: the set value is stored even when the procedure is exited by waiting the time-out to expire.

THE HIDDEN MENU

The hidden menu Includes all the parameters of the instrument.

6.6.1 HOW TO ENTER THE HIDDEN MENU



1. Enter the Programming mode by pressing the Set+ ▼ key for 3s (the "°C" or "°F" LED starts blinking).
2. Released the keys, then push again the Set+ ▼ keys for more than 7s. The Pr2 label will be displayed immediately followed from the HY parameter.

NOW YOU ARE IN THE HIDDEN MENU.

3. Select the required parameter.
4. Press the "SET" key to display its value.
5. Use ▲ or ▼ to change its value.
6. Press "SET" to store the new value and move to the following parameter. To exit: Press SET + ▲ or wait 15s without pressing a key.

NOTE1: if none parameter is present in Pr1, after 3s the "noP" message is displayed. Keep the keys pushed till the Pr2 message is displayed.

NOTE2: the set value is stored even when the procedure is exited by waiting the time-out to expire.

6.6.2 HOW TO MOVE A PARAMETER FROM THE HIDDEN MENU TO THE FIRST LEVEL AND VICEVERSA.

Each parameter present in the HIDDEN MENU can be removed or put into "THE FIRST LEVEL" (user level) by pressing "SET" + ▼

In HIDDEN MENU when a parameter is present in First Level the decimal point is on.

HOW TO LOCK THE KEYBOARD



1. Keep pressed for more than 3 s the ▲ and ▼ keys.
2. The "POF" message will be displayed and the keyboard will be locked. At this point it will be possible only to see the set point or the MAX o Min temperature stored
3. If a key is pressed more than 3s the "POF" message will be displayed.

TO UNLOCK THE KEYBOARD

Keep pressed together for more than 3s the ▲ and ▼ keys, till the "Pon" message will be displayed.

THE CONTINUOUS CYCLE



When defrost is not in progress, it can be activated by holding the ▲ key pressed . for about 3 seconds.

The compressor operates to maintain the "ccS" set point for the time set through the "CCt" parameter. The cycle can be terminated before the end of the set time using the same activation key " ▲ " for 3 seconds.

THE ON/OFF FUNCTION

With "onF = oFF", pushing the ON/OFFkey, the instrument is switched off. The "OFF" message is displayed. In this configuration, the regulation is disabled. To switch the instrument on, push again the ON/OFF key.

WARNING: Loads connected to the normally closed contacts of the relays are always supplied and under voltage, even if the instrument is in stand by mode.