OPERATING INSTRUCTIONS AND TECHNICAL GUIDE

These instructions apply to Shoreline Medical temperature controlled storage appliances intended for use in healthcare, pharmacy and clinical environments.

This document provides guidance on appliance use, operation and routine monitoring to support the safe storage of temperature sensitive products.

This appliance is to be operated by suitably trained personnel.
Failure to follow these instructions may affect appliance performance, stored contents and warranty status.

The most up-to-date information relating to this appliance is available on the Shoreline Medical website.

THIS APPLIANCE MUST BE RUN FOR 24 HOURS BEFORE LOADING TO ENSURE CORRECT COOLING OPERATION

Crown Commercial Service Supplier

MADE IN BRITAIN

NHS Approved Supplier

Appliance Types

Medical Refrigerator (2-8°C)

Medical refrigerators are designed for the storage of temperature-sensitive products within a controlled refrigerated range.

These appliances are intended for use in healthcare and pharmacy environments where stable refrigerated conditions are required.

Ambient Storage Cabinet (15-25°C)

Ambient storage cabinets are designed to maintain contents within a controlled ambient temperature range.

Active temperature control is used to stabilise internal conditions and reduce the effects of external temperature variation.

Alternative names for this product include Room Temperature Storage (RTS) and Controlled Room Temperature (CRT)

Medical Freezer

Medical freezers are designed for the storage of products requiring frozen conditions and operate at lower temperature ranges than medical refrigerators

General Safety

Non-Domestic Use: This appliance is designed for use in healthcare, pharmacy, and clinical environments for the controlled storage of temperature-sensitive products. It is not intended for domestic or household use.

Shoreline (UK) Ltd is not liable for any damages resulting from failure to follow the operating and installation instructions.

Responsibility for the storage, monitoring, and management of medical and pharmaceutical products stored within the appliance rests entirely with the user.

Do not store flammable or explosive products in your appliance.

Prior to first use, remove all packing material, both internally and externally, and dispose in an environmentally friendly manner

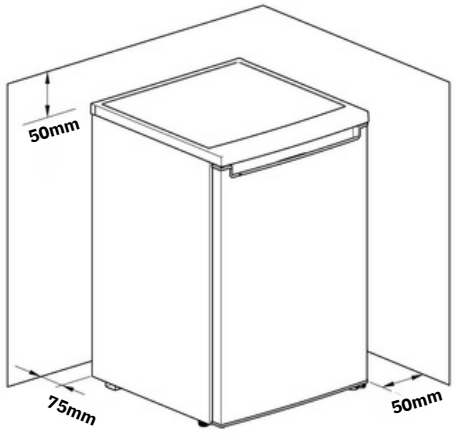
Installation and First Time Use

This appliance must be installed indoors in a controlled environment, away from direct heat sources, radiators, or direct sunlight.

Your appliance may be supplied with a separate door handle. Where provided, this should be securely fitted prior to placing the appliance into service.

The appliance is fitted with adjustable levelling feet which can be used to ensure the appliance is stable and correctly supported once positioned.

Adequate ventilation must be provided to allow correct operation. *The recommended ventilation is 50mm clearance at the sides, and 75mm at the rear (50mm space at the top is recommended for under-counter appliances)*



All Shoreline Medical appliances are designed for operation on a 220–240 V, 50 Hz AC electrical supply and are supplied complete with a factory-fitted mains plug.

If direct connection to a fixed electrical supply is required, installation must be carried out by a competent person in accordance with local regulations.

The appliance must be connected to an earthed electrical supply.

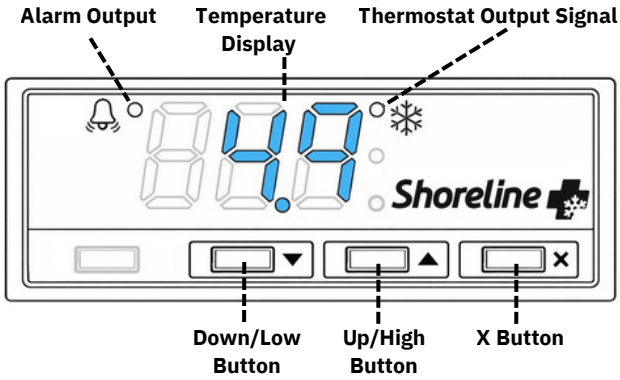
Before the appliance is loaded with any products, it must be operated empty for a minimum period of 24 hours to confirm stable operation. The appliance should only be placed into service once stable operating temperatures have been achieved and verified.

Temperature Controller and Display

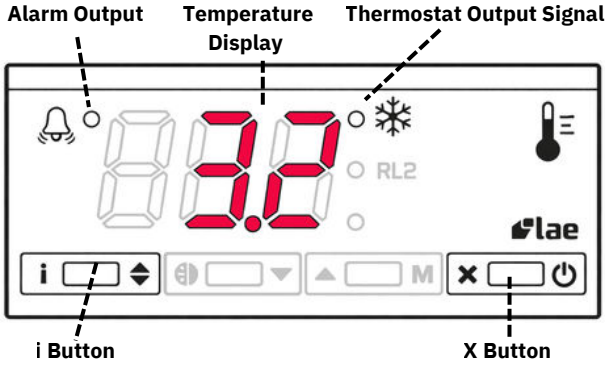
The appliance is fitted with an electronic temperature controller designed for use in medical storage applications. The controller continuously monitors internal conditions and regulates operation to maintain the required storage temperature.

The controller provides a digital temperature display, visual status indicators, and alarm functions to alert users to deviations outside the permitted operating range.

Blue Type



Red Type



The central digital **Temperature Display** shows the measured temperature value. The displayed temperature represents a simulated product temperature derived from an internal reference sensor.

The **Thermostat Output Signal** indicator illuminates when the compressor is engaged and the appliance is actively cooling.

The **Alarm Output** indicator illuminates if the internal temperature remains above or below the permitted operating range for a continuous period of 15 minutes.

Maximum and Minimum Temperature Recording

The controller stores the minimum and maximum recorded temperature values recorded since the last reset.

The NHS Green Book recommends twice-daily temperature monitoring of the maximum and minimum recorded temperatures.

Recording Max/Min (Blue Type)

Press and hold the '**Down' Button** to display the minimum reading for your records as below:

Press and hold the '**Up' Button** to display the maximum reading for your records as below:

Once these Max/Min temperatures have been logged by a member of the team, press and hold the '**X' Button** to reset as below:

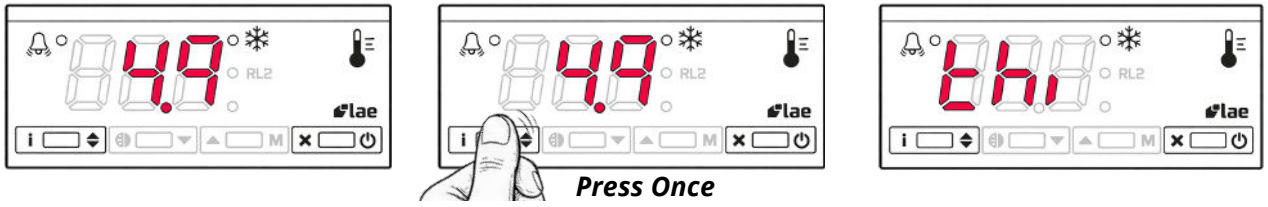
Once the '**X' Button** has been held, you may use the value on the display as your current temperature. A correct log of the temperatures above would be recorded as below:

LOW	HIGH	CURRENT
3.2°C	6.4°C	4.9°C

Recording Max/Min (Red Type)

Take the current temperature reading from your controller display

Press the **'i' Button** once to enter the controller Max/Min memory. **'thi'** will be displayed



When **'thi'** shows, press and hold the **'i' Button** to display the maximum reading for your records.
Continue to hold the **'i' Button** and record this temperature.
Once this has been noted, simultaneously press the **'X' Button** to reset the Max memory

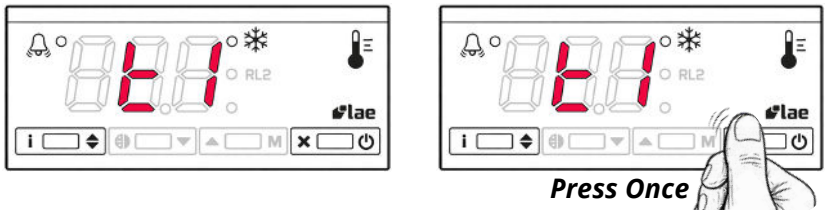
Release both buttons to display **'tlo'** on your display.

When **'tlo'** shows, press and hold the **'i' Button** to display the minimum reading for your records.
Continue to hold the **'i' Button** and record this temperature.
Once this has been noted, simultaneously press the **'X' Button** to reset the Min memory

Release both fingers to display **'t1'**

When **'t1'** shows, press the **'X' Button** once to return to normal function.

Based on the temperature ranges outlined on this page, your recorded readings should match the example shown below:



LOW	HIGH	CURRENT
3.2°C	6.4°C	4.9°C

Failure to reset the Max/Min values will result in the previously recorded highest and lowest temperatures remaining stored in the controller memory, which may lead to inaccurate temperature records.

Alarm Function

The alarm output indicator illuminates if the internal temperature remains above or below the permitted operating range for a continuous period of 15 minutes.

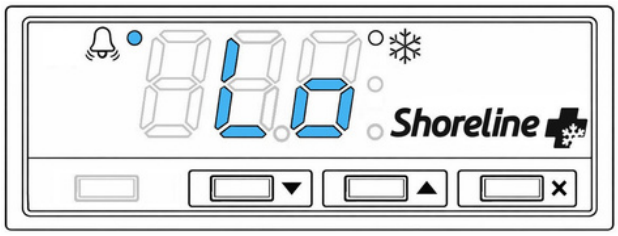
Please refer to page 2 for your appliances specified range.

This indicates that the appliance temperature has exceeded the high alarm limit or fallen below the low alarm limit.

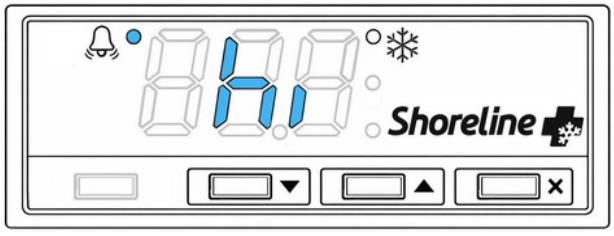
Alarm Display

When an alarm condition occurs, the temperature display will indicate the type of alarm

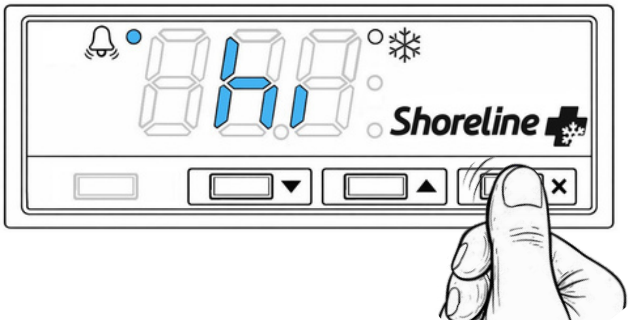
“Lo” will appear on the temperature display if the temperature falls below the permitted range.



“Hi” will appear on the temperature display if the temperature rises above the permitted range.



An active alarm condition may be silenced by pressing the ‘X’ button.



Defrost Function

Automatic Defrost Operation

The appliance is equipped with an automatic defrost function designed to prevent ice build-up on the evaporator and maintain efficient cooling performance.

During a defrost cycle, the compressor will temporarily stop while the accumulated frost on the evaporator is allowed to melt.

This process occurs automatically at pre-set intervals and does not require any user intervention.

Secondary Temperature Monitoring

It is recommended that all vaccine refrigerators be equipped with at least one independent maximum-minimum thermometer in addition to the integrated display.

This is usually to determine the duration or maximum temperature deviation of stored product in the event of a power cut or failure.

It is important to position your data logger or thermometer probe near the fridge’s internal probe or in a central location.

This should be placed inside a package or immersed in a small liquid-filled vial to simulate product temperature.

Always ensure your data logger is calibrated to industry standards to minimise inconsistencies.

Secondary monitoring devices are supplementary and do not replace routine Max/Min temperature recording

Power Interuption

In the event of a power interruption, the appliance will stop cooling until electrical supply is restored.

Our appliances are designed to maintain internal temperatures for a limited period during a power outage.

Under typical conditions and with the appliance door kept closed, internal temperatures may remain within a safe range for approximately 1–2 hours. Actual duration may vary depending on ambient temperature, appliance loading, and the temperature at the time of the power loss.

To help maintain temperature stability during a power interruption, keep the appliance door closed. Record the time the power interruption began and ended, and use your independent data logger to monitor temperature deviations.

Any products that may have been exposed to temperatures outside the permitted range should be quarantined and assessed in accordance with local procedures and guidance.

Cleaning

Regular cleaning helps maintain appliance performance and ensures a hygienic storage environment.

Before cleaning, the appliance should be emptied and the electrical supply isolated where appropriate.

Internal surfaces and shelves may be cleaned using a soft cloth with warm water and mild detergent, or with approved disinfectant wipes such as Clinell® Universal Wipes, which are commonly used in healthcare environments.

Abrasive cleaners, solvents, or strong chemical agents should not be used as these may damage internal surfaces or components.

Shelves and internal surfaces should be kept free from debris or packaging materials that may restrict airflow within the cabinet. Spillages should be cleaned immediately.

Cleaning should be carried out regularly in accordance with local infection control procedures.

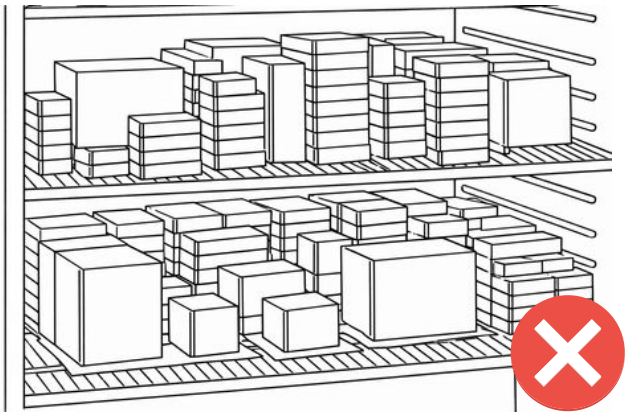
Loading

Correct loading is essential to maintain stable temperature conditions and ensure proper air circulation within your appliance.

Air circulation is assisted by the internal fan and ventilated wire shelving, which are designed to promote even airflow throughout the cabinet.

To maintain correct airflow, contents should not be packed tightly together and sufficient space should be left between products to allow air to circulate freely.

Shelves must not be covered with paper or solid trays that may restrict airflow.



Products should not touch the rear wall, side walls, or base of the cabinet, and items must not be placed directly in front of the internal circulating fan as this may obstruct the flow of cooling air.

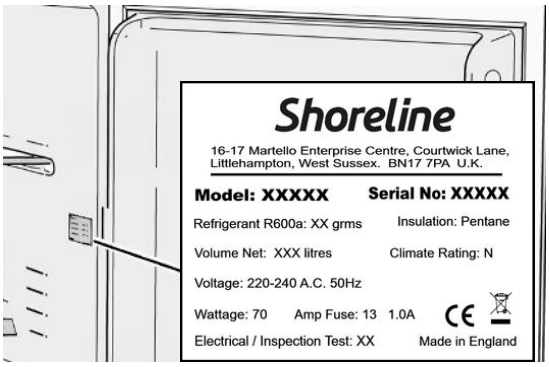
Overloading the appliance can block the circulation of cooling air and result in uneven temperatures within the cabinet. For this reason, the NHS Green Book Notes recommends that the appliance is not filled beyond 75% of its storage capacity.

Technical Support

If you require assistance with the operation or performance of your appliance, please contact the Shoreline Medical technical support team via the Support section of our website.

When contacting support, please ensure that the appliance model number and serial number are available, along with a brief description of the issue.

This information can be found on the appliance data plate located within the cabinet.



Providing these details will help our technical team identify the appliance configuration and assist you more efficiently.

For further information, technical guidance, and support resources, please visit:

https://www.shoreline-medical.co.uk/help-desk/

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Always refer to the most up-to-date instructions and information available on our website.

Warranty Information

All Shoreline Medical appliances are automatically registered for warranty from the date of delivery. No manual registration or additional documentation is required.

Appliance details, including model and serial number, are recorded within the Shoreline Medical technical service database at the time of supply.

For full warranty terms and conditions, please refer to the Shoreline Medical website:

www.shoreline-medical.co.uk/warranty

Manufacturers Notice

Unauthorised modification, incorrect installation, or operation of the appliance outside the conditions described in this document may affect appliance performance and warranty eligibility.

This appliance must be disposed of in accordance with local electrical waste regulations and must not be disposed of with general household waste.

Shoreline (UK) Ltd reserves the right to amend product specifications and documentation without prior notice as part of ongoing product improvement.

Whilst every effort has been made to ensure the accuracy of this document, Shoreline (UK) Ltd cannot be held responsible for any errors or omissions.

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