

# BIOS living

## 120SC

### ADVANCED VACCINE FRIDGE THERMOMETER

#### FEATURES:

- Dual channel measurement
- Low / High alarm limit setting
- Minimum and maximum reading memories with real time and date stamp
- Flashing light alarm indicator
- °C/°F switchable
- Time and date display
- Low battery indicator
- Flip-out desk stand
- Magnetic attachment

#### SPECIFICATIONS

Measuring Range	-50°C to 70°C (-58°F to 158°F)
Display Accuracy	± 0.5°C
Display Resolution	0.1°
Display Reading Update	10 seconds
Alarm Limit Setting Resolution	1°
Time Accuracy	± 3 seconds per day
Time Display Format	24 hours
Date Display Format	Day / month / year
Effective Calendar Period	2012 - 2099
Battery	1.5 volt, type AAA x 2 pieces
Probe cord length	1,000 mm
Display Size	90(W) x 16(H) mm
Product Size	135(W) x 45(H) x 23(D) mm
Accessories	1. 1.5 volt, type AAA battery x 2 pieces 2. Magnet on back of unit 3. Sensor holder with double sided tape x 2 pieces

#### INSTALLATION

1. Open battery cover.
2. Install batteries with correct polarity positioning.
3. Close battery cover.
4. Fully extend the probe wires.
  - a) If using glycol tubes (available separately) then place glycol tubes in a vaccine box inside fridge.
  - b) If not using glycol tubes, please place sensors in a secure area inside the fridge away from the wall on the fridge.
5. Peel off LCD display protective sheet.

#### OPERATION

##### Select Temperature Unit

Slide the °C/°F switch on the back to select temperature unit.

##### Time And Date Display

Press **TIME/DATE** to switch the display to show the current time or date.

In date display mode, the display will automatically switch back to time display if there is no operation for 10 seconds.

##### Time Setting

1. In time display mode, press and hold SET for about 3 seconds to enter time setting and the hour (HR) digits will be flashing.
2. Press ▲ to adjust the digits to the current hour.
3. Press SET once to confirm the hour setting and then the minute (MIN) digits will begin to flash.
4. Press ▲ to adjust the digits to the current minute(s).
5. Press SET once to confirm the minute setting and then the second (SEC) digits will begin to flash.
6. Press ▲ to adjust the digits to the current second.
7. Press SET again to finish time setting and return to normal display.



### Date Setting

1. In date display mode, press and hold **SET** for about 3 seconds to enter date setting and the Year digits will be flashing.
2. Press **▲** to adjust the digits to the last two digits of the current year.
3. Press **SET** once to confirm the year setting and then the month digits will begin to flash.
4. Press **▲** to adjust the digits to the current month.
5. Press **SET** once to confirm the month setting and then the date digits will begin to flash.
6. Press **▲** to adjust the digits to the current date.
7. Press **SET** again to finish date setting and return to normal display.

### Minimum / Maximum Reading Memory

1. Press **MODE** once to display the minimum measured reading and the time display will show when this minimum reading was recorded.
2. Press **TIME/DATE** to see the date of when the minimum reading was recorded.
3. Press **MODE** once to display the maximum measured reading and the time display will show when this maximum reading was recorded.
4. Press **TIME/DATE** to see the date of when the maximum reading was recorded.
5. Press **MODE** three times to return to normal display.
6. To clear the minimum and maximum reading memories, press **CLEAR** once when the minimum or maximum readings are displayed. All readings for both channels and time stamps will be reset to current readings and time.
7. Clear the memory once before taking new minimum or maximum reading.

### Low / High Alarm Setting

1. Press **MODE** three times to enter low / high alarm setting and the LO icon will be displayed.
2. Hold **SET** for about 3 seconds and the LO digits will be flashing.
3. Press **▲** to input the desired low temperature limit.
4. Press **SET** to confirm low temperature alarm limit. The HI icon will be displayed and the digits will begin to flash.
5. Press **▲** to input the desired high temperature limit.
6. Press **SET** to confirm the high temperature alarm limit and finish the setting.
7. The alarm will sound when the temperature reading is lower or higher than the alarm limit set. Press any button to stop the alarm sound but the HI or LO icon will still flash until the reading is within the set limits.

**NOTE:** If connectors are unplugged, the alarm will go off. Once re-connected, the alarm will stop.

### Alarm On/off

Press  to switch alarm OFF or ON.

### Alarm Indicator

When the reading exceeds the alarm limit the red light will be on and continue to flash to indicate that an alarm has been triggered. Press and hold **CLEAR** for about 3 seconds to cancel the flashing red light.


### Switch Channel Display

Press **S1/S2** once to switch the display for channel S1 or S2 reading.

### NOTE:

1. Do not operate the thermometer in an environmental temperature lower than 0°C/32°F or higher than 50°C/122°F otherwise incorrect readings or damage to the thermometer may result.
2. If the thermometer is not in use for a long period of time then remove the batteries from battery compartment to avoid battery leakage.

### ERROR SYMBOL

SYMBOL	DESCRIPTION	ACTION REQUIRED
	Low battery voltage	Replace the batteries
LLL	1. Sensor open circuit 2. The reading is out of low range (-50°C) 3. Connector is unplugged	1. Return the thermometer for repair 2. Keep the measurement above low range 3. Ensure the connectors are properly inserted
HHH	1. Sensor short circuit 2. The reading is out of high range (70°C)	1. Return the thermometer for repair 2. Keep the measurement below high range

### ONE YEAR WARRANTY

The BIOS Living Advanced Vaccine Fridge Thermometer has a 1 year warranty to be free of manufacturing defects in materials and workmanship under normal applications for the original owner. If this product becomes inoperable due to defect and requires repair, return the product with all component pieces and proof of purchase to the address listed below. This warranty does not cover any shipping/transport costs. This warranty does not apply if the product is subject to misuse, neglect, rough handling or damage.

Ship the unit prepaid and insured (at owner's option) to:

Thermor Ltd.  
Attn: Repair Department  
16975 Leslie Street  
Newmarket, ON L3Y 9A1

www.biosmedical.com  
Email: support@biosmedical.com



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