

## Ice Box, 4°C Dry Bath

Cat. No. BT1122



Thank you for choosing BT Lab Systems' Ice Box. This operation manual describes the function and operation of the instrument. In order to use the instrument properly, please read this manual carefully.

### **IMPORTANT SAFETY INFORMATION**

- Please read this operation manual carefully before using the instrument.
- The operation, maintenance and repair of the instrument should comply with the basic guidelines and warning below. Ignoring these instructions will affect the life of the instrument and safety precautions.
- This product is an indoor Instrument.
- These units are designed for laboratory use by persons knowledgeable in safe laboratory practices.
- The operator should never open or repair the instrument. Opening or repairing the instrument will void the guarantee and can cause accidents.
- The power plug should safeguard against an electric shock. The 3-pin plug supplied with the instrument should be matched with a suitable grounded socket.
- The temperature of the metal block will be very high during the normal operation. This will produce scalding or boiling liquid. Do not touch any part of the body to the instrument to avoid scalding.
- Close the test tube lid before putting the tube into the block. Liquids may spill out in the block or onto the device if the tube lid is open, which will damage the block or the device.
- Make sure the outlet voltage complies with the voltage required. Make sure there is nothing else plugged into the same outlet. Hold the plug when pulling out the power line. Do not plug the cord in where it is a tripping hazard.
- The instrument should be used in an area with low temperature, little dust, no water, no sunshine or hard light and with good air circulation. Do not use where there is corrosive gas or a strong magnetic field. Keep far away from central heating, camp stove and other hot sources. Do not put the instrument in a wet and dusty area. The vent on the instrument is designed for aeration. Do not wall up or cover the vent. The distance between each device should be more than 100cm when there is more than one instrument.
- Main switch is on the rear of the device. Push "I" to power on the device, and push "O" to power off the device.
- Power off when not in use. If the instrument will not be used for a long period, unplug, and cover with a piece of cloth to protect it from dust.
- In case of the following, unplug the instrument at once and contact BT Lab Systems.
  - The instrument comes into contact with liquid
  - The instrument gets soaked or burned
  - The instrument emits an abnormal sound or smell
  - The instrument is dropped or the outer shell damaged
  - The instrument functions abnormally.

## MAINTENANCE

The well in the block should be cleaned with a cloth dampened with alcohol. If there are smudges on the instrument, clean it with a dry cloth.

Turn the power off before cleaning the instrument. Do not put cleaning fluid into the well of the block. Do not use corrosive cleaning fluid.

## INTRODUCTION

The Ice Box is designed with a microprocessor controller. It uses semiconductor refrigeration technology and has high temperature control precision. Automatically maintain 4°C constant temperature after power on, no need to set and adjust. It can be widely used for short-term storage of cryogenic experimental reagents or experimental samples during experimental operations. Different block can be selected to meet different specifications of tubes.

## KEY FEATURES

- Automatically maintains a constant temperature of 4°C

## NORMAL OPERATING CONDITIONS

Ambient temperature: 5°C-30°C

Relative humidity: ≤ 70%

Power supply: 100-230V~ 50/60Hz

## TECHNICAL SPECIFICATIONS

Block temp. control range	4°C constant temperature
Cooling Time	≤10 mins (dependent on block specifications)
Hot lid temp. control range	Ambient +5°C to 105°C
Temp. stability @ 4°C	±0.5°C
Block temp. stability @ 4°C	±0.3°C
Dimension (WxDxH)	196x270x170mm
Net weight	3.5Kgs

## OPERATION GUIDE

1. Turn on the power switch and the instrument enters initialization phase.
2. The instrument automatically begins to control the temperature, accompanied by the temperature control indicator flashing.
3. When the indicator light is on, the instrument has reached 4°C and is operated at a constant temperature. The instrument is ready for use.

### **Exchange the blocks**

1. Remove the insulation cover of the block and use the hexagon socket wrench to completely unscrew the three screws in the block counterclockwise.
2. Remove the screws and remove the block from the main unit.
3. Switch out the block and reattach with the three screws

### **OPTIONAL BLOCKS**

<b>Cat. #</b>	<b>Specifications</b>	<b>Hole Diameter (mm)</b>	<b>Hole Bottom Shape</b>	<b>Block Dimension (mm)</b>
<a href="#">BT916-A</a>	96 x 0.2ml PCR Plate Block	6.7	Cone	107 x 71 x 20
<a href="#">BT916-B</a>	54 x 0.5ml Tube Block	8	Cone	107 x 71 x 25
<a href="#">BT916-C</a>	35 x 1.5ml Tube Block	10.8	Cone	107 x 71 x 32
<a href="#">BT916-D</a>	35 x 2ml Tube Block	10.8	Round	107 x 71 x 32
<a href="#">BT916-E</a>	20 x 0.5ml & 15 x 1.5ml Tube Block	8 & 10.8	Cone	107 x 71 x 32
<a href="#">BT916-F</a>	24 x 12mm Tube Block	12	Flat	107 x 71 x 32
<a href="#">BT916-G</a>	32 x 0.2ml & 25 x 1.5ml Tube Block	6.1 & 10.8	Cone	107 x 71 x 32
<a href="#">BT916-H</a>	32 x 0.2ml & 10 x 0.5ml & 15 x 1.5ml Tube Block	6.1, 8 & 10.8	Cone	107 x 71 x 32
<a href="#">BT916-I</a>	Waterbath Block	103 x 67 x 30	Flat	107 x 71 x 32
<a href="#">BT916-J</a>	96 well Plate Block	n/a	n/a	116 x 71 x 15
<a href="#">BT916-K</a>	24 x 5 ml Tube Block	13.5	Flat	107 x 71 x 32
<a href="#">BT916-L</a>	12 x 15ml Tube Block	16.9	Flat	107 x 71 x 100
<a href="#">BT916-M</a>	6 x 50ml Tube Block	29.5	Flat	107 x 71 x 100
<a href="#">BT916-P</a>	96 x 0.2ml Mixer Stand (Supplied)	6.7	n/a	107 x 71 x 32
<a href="#">BT916-Q</a>	24 x 0.5ml Mixer Stand (Supplied)	8	n/a	107 x 71 x 32
<a href="#">BT916-R</a>	24 x 1.5/2ml Mixer Stand (Supplied)	10.8	n/a	107 x 71 x 32
<a href="#">BT916-V</a>	High Level Cover	n/a	n/a	n/a
<a href="#">BT916-X</a>	Low Level Cover	n/a	n/a	n/a

### **TECHNICAL SUPPORT**

BT Lab Systems offers technical support for all of its products. If you have any questions about the product's use or, operation, please contact BT Lab Systems at the following:

E-Mail: [info@BTLabSystems.com](mailto:info@BTLabSystems.com)