

Ultra-Thin Magnetic Stirrer

Cat. No. BT2012

IMPORTANT SAFETY INFORMATION

- Please read this operation manual carefully before using the instrument.
- This product is an indoor Instrument.
- These units are designed for laboratory use by people 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.
- Make sure the rated electrical outlet load is no lower than the demand. Power cord should be replaced with the same type if it is damaged. Make sure there is nothing else on the power line. Hold the jack when pulling out the power line. Do not pull the power line. Do not put the power line in a place where there is a tripping hazard.
- The instrument should be used in an area with low humidity, little dust, away from water and direct sunlight. Area should have strong ventilation without corrosive gases or strong magnetic fields. Keep away from stoves and all other heat sources.
- 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 encounters 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 casing should be cleaned with a neutral soap solution. Do not use strong bases, concentrated alcohols, and organic solvent solutions.

INTRODUCTION

The Ultra-thin magnetic stirrer is an instrument that can accurately stir liquids in a wide range. It is suitable for small volume samples.

FEATURES

- Ultra-light and ultra-thin making unit easy to store and utilizes less space
- Uses advanced non-wearing magnetic coil technology for a quieter and more stable operation
- Multi-directional stirring function for more uniformity to meet a variety of experimental needs
- LCD screen displays parameters in real time
- Higher protection level against dust and water (IP65)

NORMAL OPERATING CONDITIONS

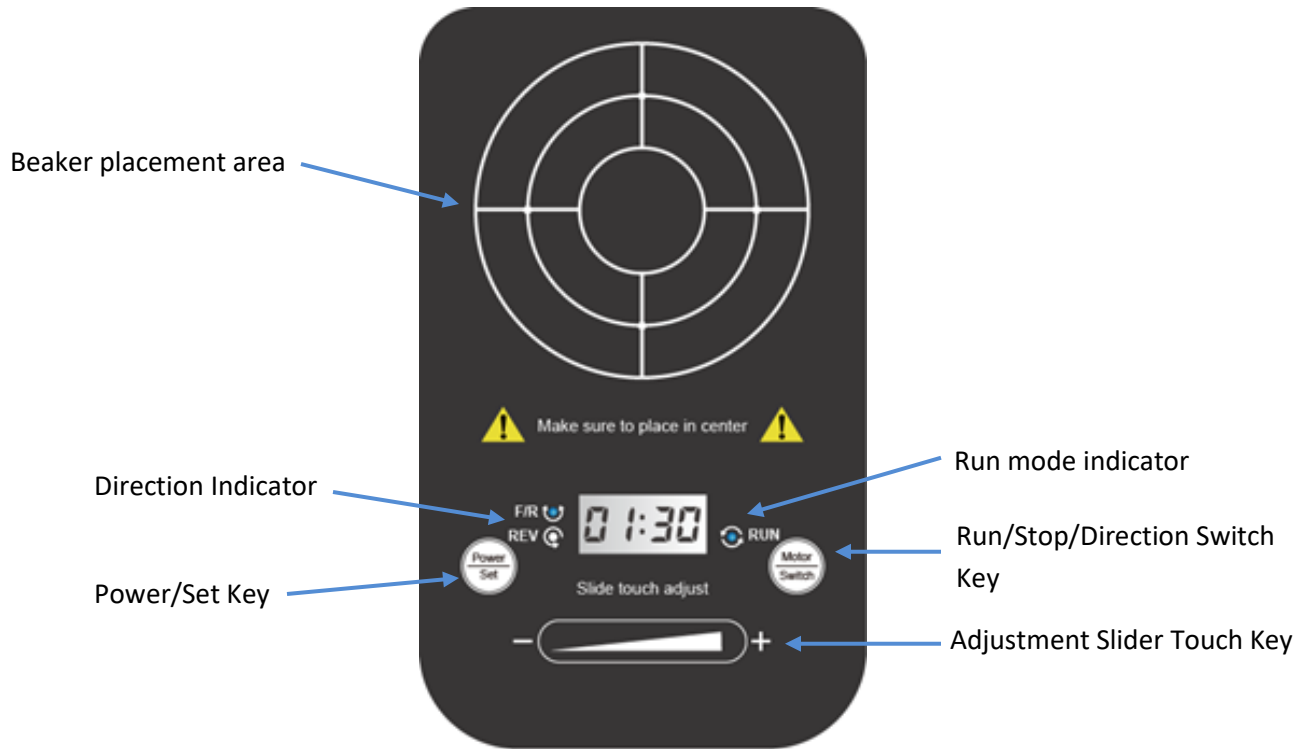
Ambient temperature: 5°C ~ 45°C

Relative humidity: ≤ 70%

TECHNICAL SPECIFICATIONS

Model	BT2012
Max. stirring amount (H ₂ O)(H ₂ O)	1L
Motor output power	3W
Adjustable Speed Range	20 – 1500rpm (10rpm increment)
Bidirectional stirring intermittent time	45s/5s
Time Range	0 – 9 hours (5 min increment) (0 is ∞)
Display Method	LCD
Platform Material	PVC
Platform size	Φ110
Dimensions (W x L x H) (mm)	110 x 180 x 14.5
Weight (kg)	0.18
Voltage	DC 5V 1A
IP Rating	IP65

PANEL OVERVIEW



Key Button Functions

Power/Set Key



Long press to **start/shut down** instrument
Short press to **adjust values** for the target speed or target time

Run/Stop/Direction Switch Key



Short press to **run/stop** operation
Long press to switch stirring direction

Adjustment Slider Touch Key



Touch and slide to adjust speed and time values
Slide left to decrease
Slide right to increase

OPERATION GUIDE

1. Power on the instrument by holding down the “Power/Set Key”. The unit will start up and the screen will display.
2. Press the “Power/Set Key” to switch to the target speed and target time.
3. Use the “adjustment slider touch key” to set the desired values.
4. Press the “Run/Stop/Direction Switch Key” to run or stop the operation.
5. Hold the “Run/Stop/Direction Switch Key” to select the stirring direction mode.
The “Direction Indicator” light will display accordingly



Bidirectional
Mode

- The recommended speed is less than 1000rpm.
Adjust according to solution



Single Direction
Mode

- The recommended speed is less than 1400rpm.
Adjust according to solution

TROUBLESHOOTING

Issue	Solution
After setting unit to run, the stirrer does not turn	Hardware Malfunction. Contact BT Lab Systems for repair
The display screen is not bright. Appearance is abnormal	Hardware Malfunction. Contact BT Lab Systems for repair
Key button or Touch-Key Slider does not work	Hardware Malfunction. Contact BT Lab Systems for repair

WARRANTY

Our company guarantees that this unit is warranted against defective material and workmanship for a period of one year from the date of shipment. We will repair or replace the defective equipment returned during the warranty period free if the equipment has been used under normal laboratory conditions and in accordance with the instruction in this manual. The following defects are specifically excluded:

1. Damage caused by accident, misuse, or abuse
2. Damage caused by disaster
3. Repair or modification by anyone else without our authorization
4. Corrosion due to the use of improper solvent or sample
5. Defects caused by improper operation
6. Use of fittings or other spare parts supplied by different manufacturers

This warranty does not apply to platinum wire and all the accessories.

A return authorization must be obtained from us before returning any product for repair on a freight prepaid basis.

For any inquiry or request for repair service, please contact BT Lab Systems via the email below.

E-Mail: info@BTLabSystems.com

TECHNICAL SUPPORT

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

E-Mail: info@BTLabSystems.com