



Nitrogen Evaporator

LB-13NE

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1. Safety Measures

- Under the same environmental conditions, the dryness and wetness of the heating medium, the degree of pollution in the fume hood, and the purity of the blowing gas will all affect the effect of evaporation and concentration.
- To prevent cross-infection, the gas needle tube (mainly the lower part) should be cleaned promptly after each use.
- When adjusting, try to hold the ventilation board with your hands as much as possible, so that it can rise and fall smoothly and avoid falling due to the gravity of the ventilation board itself. Causing damage to test tubes and causing unnecessary losses.
- When starting to introduce nitrogen gas, the valve should be slowly opened to ensure that its pressure does not exceed the range of the pressure gauge, which not only prevents the sample from being drawn.
- Splashing, causing loss and pollution, also preventing damage to the pressure gauge.
- This device is an electromechanical integrated precision equipment.
- Users are not allowed to disassemble related components without permission to avoid affecting the warranty.

2. Introduction

Nitrogen evaporator LB-13NE is a microprocessor-controlled unit with heater block system. The adjustable heights of the nitrogen distributor employ wide range of experimental accessibilities. Blowing concentration of inert gases ensures separation of samples with oxygen-free purified concentration.

3. Features

1. Digital dual display LCD screen for visual monitoring of set parameters
2. PID controlled technology
3. Over temperature indication by alarm buzz to avoid malfunctions
4. Digital temperature controller
5. Anti-corrosive 316 stainless steel structural units with plastic spray coating

4. Specifications

Model No.	LB-13NE
Sample capacity	36
Flow rate	0 L/min ~ 15L/min
Heating system	Heating block
Temperature range	Ambient ~ 120°C
Temperature accuracy	±1 °C
Power supply	220 V, 50 Hz
Dimensions	600×200×400 mm
Weight	6.8 kgs

5. Applications

Used in pharmacy, medical testing, environmental testing, chemical analysis, pesticides, insecticides testing, etc.

6. Installation

- First, place the host on a stable experimental platform and then check if the configuration is complete according to the packing list.
- Loosen the screws on the fixing plate of the bracket until the fixing rod can be inserted into the circular groove on the fixing plate then insert the bracket into the fixed bracket next to the host.
- After adjusting the position of the fixed bracket, tighten the fastening screws on the fixed plate to ensure that the support rod does not loosen.
- Insert the nitrogen-blowing needle into the ventilation plate one by one, keeping the nitrogen-blowing needle perpendicular to the ventilation plate to avoid bending the needle.
- Loosen the knob on the lifting block so that the support rod can be inserted into the circular groove and adjust the gas distribution chamber to the desired position.
- Adjust the required height and then tighten the knob; during the experiment, if it is necessary to adjust the height of the gas distribution chamber, loosen the knob so that the chamber can move up and down to complete the position adjustment.
- Connect the nitrogen outlet nozzle on the host to the inlet nozzle on the ventilation plate using a rubber hose.

7. Operations

- Fix the fixed support rod of the gas distribution chamber (commonly known as the ventilation plate, hereinafter referred to as the ventilation plate) to the side of the main engine.
- Secure the bracket to ensure secure installation.
- To set the temperature, users can use the "V" and "V" keys to set it.
- Long pressing either key will quickly change the number by adding or subtracting to the desired temperature.
- Before reaching equilibrium temperature, the sample test tube can be placed into the heating block hole to reach the set temperature simultaneously for high experimental efficiency.
- Adjust the height of the ventilation plate through the knob.
- When operating, gently turn the knob and quickly tighten it to achieve it for micro regulation.
- Slowly open the nitrogen main valve and observe the blowing situation, by adjusting the height and position of the gas needle and the valve flow rate, until the sample.
- The surface of the product blows ripples.

8. Troubleshooting

Breakdown	Causes	Guide for maintenance
High nitrogen consumption.	The interface of the intake nozzle is not tight, the ventilation needle is bent, and the ventilation plate is leaking air.	Tight the need screw.
No display on the front panel.	• Damaged power fuse. • Temperature controller issue.	Replace the safety tube.

9. Accessories

Standard Accessories

Name of accessory	Specification
Heating Block	Φ 17 mm; T45 mm

Optional Accessories

Sr. No	Name of the accessory	Specification
1.	Heating block	Φ 15 mm; T45 mm
2.	Heating block	Φ 21 mm; T45 mm
3.	Heating block	Φ 27 mm; T45 mm
4.	Heating block	Φ 45 mm; T45 mm
5.	Needles	158 mm in length



Labotronics Ltd. Union House, 111 New Union Street, Coventry CV1 2NT, UK
 info@labotronics.com | www.labotronics.com