

BIOBASE

Maintenance Manual

**Forced Air Drying Oven
BOV-V30/45/65/125/230/625F
User Manual**

BIOBASE GROUP

Version 2020.07

Preface

Thank you for purchasing BIOBASE Drying Oven.

Using object

This manual will show you how to perform preventive maintenance the instrument and software.

Before using the product, please carefully read this manual. Keep this manual in a safe place for easy reference. If you do not follow the precautions described in this manual, we will not guarantee the maintenance.

Instrument Maintenance

To keep the instrument work in good condition, constant maintain is needed.

1. General maintenance instructions

Follow the suggestions below to provide preventive and timely service to your equipment:

- 1.1. Always keep your equipment clean. If your equipment will not be used for some period of time, it is recommended to clean the inside of the camera.
- 1.2. Constantly verify that the power supply of the equipment is adequate
- 1.3. Verify that the laboratory temperature is not higher than 35°C.
- 1.4. If your laboratory has dust or volatile particles, it is recommended to clean the Control Panel. Disconnect the equipment from the line first. Unscrew the control cap. Using bottled compressed air, clean control.
- 1.5. Check that the fans and motor turn on and do not generate noise.
- 1.6. Never raise the maximum temperature of the equipment for long periods of time, this limits the useful life of the resistors.
- 1.7. Do not obstruct the ventilation grills of the equipment, this could cause malfunction of the equipment.
- 1.8. Disconnect the equipment from the line if it will not be used for a long time.

2. Damage requiring specialized service

1.-Damage requiring service- the unit will require service by qualified personnel if:

- a) The power supply cord or plug has been damaged;
- b) Some object or liquid has entered the heating unit;
- c) The unit has been exposed to rain;
- d) The unit does not operate normally or exhibits a relevant change in its performance;
- e) The unit has been dropped or the cabinet has been damaged.

2. Service

Do not attempt to service this unit beyond what is described in these operating instructions. Direct any other service to authorized service personnel.

3. Replacement parts

When parts or pieces need to be replaced, make sure that parts specified by the manufacturer or parts that have the same characteristics as the original ones are used.

4. Safety Check

After repairs or service have been performed, have your service agent perform safety checks to confirm that the unit is in proper operating condition.

3. Possible Faults

1) Switch does not turn on

- Check power cable, plug, general fuse and ignition switch.
- Solution: replace

2) Does not heat or does not raise the temperature

- Check resistance connections, resistance leads or terminals, replace if necessary.
- Open resistance without continuity: Replace
- Solid State Relay: Replace

3) No Temperature Control

- Solid state relay. replace
- Open temperature sensor. replace

4) The motor or fan does not turn on

- Motor. replace
- Fan. replace

4. Trouble Shooting

Common failures and Solutions:

| Phenomena | Causation | Treatment Method |
|---|--|---|
| No power supply | a. poor plug contact or line broke | a. Connect the plug and line. |
| | b. Fuse protector is broken. | b. Change the fuse protector. |
| No temperature rising inside container | a. Low setting temperature | a. Readjust and set temperature |
| | b. Heater is broken. | b. Change the heater |
| | c. Temp. controller is broken | c. Change the temperature controller |
| | d. Temp. sensor is loose. | d. Screw up the sensor nut. |
| | e. Temp. sensor is broken | e. Change the temperature sensor. |
| No temperature rising alarm | a. Set temp. of Detached tem. limiter is low | a. Readjust the temperature 30°C above setting temperature. |
| | b. Detached temp. limiter sensor is broken. | b. Change the detached temperature limiter sensor |
| Temperature cannot reach the setting point. | a. Exhaust port is fully opened | a. Shut off the exhaust port. |
| | b. The container is overfilled, no hot air convection. | b. Decrease amount of sample to improve convection condition. |

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| | | |
|-----------------------|-------------------------|---|
| The fan doesn't work. | The fan motor is broken | Stop work and check electric capacity and motor |
| Displaying----- | The sensor is broken | Change the sensor |
| Display STOP | Time-up | Press the program key for 3s to start |

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