

## **user instructions**



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# **OPERATING AND SAFETY INSTRUCTIONS**

**for**

## **HEATED BLOCK & CONTROL**

**Model:**        **099A HBC12, 5.0 amp, 120 volts, 60 Hz.**  
                  **099A HBC24, 3.0 amp, 240 volts, 60 Hz.**

### **Specifications:**

Ambient Temperature:

77°F/25°C +/-5°

Operating Environment:

0 to 90% relative humidity  
32 to 100°F/0 to 37°C

### **Set-Up**

Plug the power cord from the control into a grounded outlet. The power switch for the control is located on the front of the unit. Connect the thermocouple from the heated block to the control.

### **Loading the Block**

Position a 96-well format metal or plastic plate in the block. Adjust the thermocouple so that the tip is touching the block. Tighten the fitting to secure the thermocouple. The unit is now ready for operation.

### **Operating the Unit:**

Once the power switch is engaged, the block will start heating. To change the temperature setting, press up and down arrow keys to the desired temperature setting. Maximum temperature of the block is 100°C. The control is factory set and cannot exceed this maximum temperature limit. Refer to the diagram below for more information in the display.

#### **Left Display:**

In the Operations Menu, displays the process value, otherwise displays the value of the parameter in the left display.



#### **Right Display:**

Indicates the set point or output power value during operation, or the parameter whose value appears in the right display.

### **Spare Parts**

Thermocouple

Glas-Col p/n: R12 179

### **Maintenance**

Glas-Col heaters do not require regularly scheduled maintenance. However, regular inspection is recommended. Glas-Col heaters should be protected from chemical spillage, mechanical damage and corrosive atmospheres so far as possible. Contamination, overheating and general misuse will greatly reduce the life of the block heater.

### **Limited Warranty**

Glas-Col warrants products of its manufacture to be free from defects in material and workmanship for one year and agrees to repair or replace without charge any products found defective upon examination at the factory. With proper care and operation, Glas-Col products will give long and efficient service. Chemical spillage, overloading and general misuse will greatly reduce the service life. Glas-Col is not responsible for damage to apparatus due to improper installation or through attempts to operate the apparatus beyond its rated capacity, intentional or otherwise.

### **Limitations of Warranties**

APART FROM SUCH WRITTEN STATEMENT OF WARRANTY, THERE ARE NO WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY, WHICH EXTEND BEYOND THE DESCRIPTION OF THE PRODUCTS ON THE FACE HEREOF.

Glas-Col products are intended only for legal and legitimate purposes in commercial laboratory and industrial settings.

Glas-Col reserves the right to make product refinements without prior notice.

### **Returns**

Call or fax Customer Service for a Return Goods Authorization (RGA) number before returning a heating mantle.

Reference the RGA number on the shipping box and on a written description of the problem.

A 20% restocking charge of the net price is charged for all standard products returned to stock.

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### **Glas-Col,LLC**

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