



# User Instructions

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## Glas-Col Upward Flow Stirrer Variable Speed 100 to 11,500 RPM

Model:           099D UF12   4 amps, 120 volts, 50/60 Hz.  
                  099D UF24   4 amps, 240 volts, 50/60 Hz.



Figure 1

## Parts shipped:

Control  
Motor Assembly  
LC300 Clamp assembly  
1/8" Allen wrench  
5/64" Allen wrench

## Specifications:

Input Voltage	099D UF12 (105-130 VAC 50/60 HZ.) 099D UF 24 (208-240VAC 50/60 HZ.)
Ambient Temperature:	77 °F/25 °C +/-5 °C
Operating Environment:	0 to 90% relative humidity 32 to 100 °F/0 to 37 °C Non-Condensing

## Operation:

Connect the cord from the control to the motor. This plug is polarized so that it can only be plugged in one way, and will lock when twisted clockwise. Make sure the power switch is in the OFF position and the motor speed knob is fully counter clockwise. Plug the controls AC power cord into a properly grounded and polarized receptacle. Depress power switch and turn the motor speed knob clockwise to set the motor speed between 100-11,500 RPM.

Stirrer is attached to a lab stand via the lab clamp 100D LC300.

## Control Features:

1. *SPEED POSITION KNOB*: This allows for RPM speed adjustment of the motor drive.
2. *POWER SWITCH*: On/off switch is a lighted rocker type.
3. *FUSE*: The stirrer control is protected against overloads with a 4-amp fuse.
4. *OUTPUT CORD SOCKET*: Connection from control to motor, three wire grounding and locking type.

Always use proper safety equipment when stirring, for example, gloves, safety glasses, etc. Read and follow instructions that are supplied with your stirrer drive.

## Caution:

The fuse is rated at 4 amps; it won't necessarily protect the motor or the controller against prolonged, moderate overloads.



Use of a stirrer for an alternate purpose, or alteration of stirrer construction features such as electrical connecting devices, may cause unsatisfactory performance and the warranty to be voided.

Your stirrer drive requires very little maintenance. Keep it clean and avoid spills. Inspect the motor brushes occasionally (with the power cord disconnected) to make sure they have not worn excessively. Do not use if electrical cords are worn or frayed.

## **Spare Parts**

Spare parts for Glas-Col stirrers are generally available from the factory. Consult Glas-Col for part numbers and pricing.

## **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, overheating, 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. Normally expendable parts are not covered by this warranty.

In the event of an incident due to a defective replacement component, Glas-Col will accept responsibility only if the component was defective from the outset. Glas-Col reserves the right to deny responsibility for the incident if the user fails to comply with any instructions provided by using spare parts, which are not guaranteed. Glas-Col reserves the right to update, and or change designs with no prior notification.

**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 Manufacturers Authorization (RMA) number before returning a product.

Reference the RMA number on the shipping box and on a written description of the problem. A 20% restock charge of the net price is charged for all standard product returned to stock.

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

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