



## user instructions

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### **Glas-Col High Speed Homogenizer** **Variable Speed** 100 to 11,500 RPM

**Model:**           099C K6424CE, 1.5 amps, 240 volts, 50/60 Hz.

Locate and identify parts shipped:

*Control  
Motor Assembly*

**Specifications:**

Power:	GT331CE	220 to 240 vac +/-10%
	50 to 60Hz. +/- 5%	
Ambient Temperature:	77 <sup>o</sup> F/25 <sup>o</sup> C	+/-5 <sup>o</sup> C
Operating Environment:	0 to 90% relative humidity	
	32 to 100 <sup>o</sup> F/0 to 37 <sup>o</sup> C	

**Operation:**

Connect the cord from the control to the motor. This plug is polarized so that it can only be plugged in one way. Make sure the power switch is in the OFF position and the motor speed knob is fully counter clockwise. Plug the control power cord into a properly grounded and polarized receptacle. Depress power switch and turn the motor speed knob clockwise to set the motor speed. Maximum speed is 11,500 rpm. The speed dial numbers represent a linear relationship with motor speed, so that a setting of 50 is approximately ½ of the maximum speed.

Stirrer is attached to a lab stand via the lab clamp.

**Control Features:**

1. *SPEED POSITION KNOB*: This allows adjustable speed of the K Series drive; power on switch.
2. *FORWARD/REVERSE SWITCH*: For direction of motor.
3. *CIRCUIT BREAKER*: The stirrer circuit is protected against overloads with a 1-1/2 amp circuit breaker.
4. *OUTPUT SOCKET*: Socket for connection for motor to control.

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

When reversing the motor direction, let the motor stop before changing direction.

As a general rule, use the slower speeds whenever possible for the work to be done. Limit your use of the high-speed shaft to small propellers and low viscosity fluids. Large paddles will overload the motor, even running in water, if you use it at maximum speed on the high-speed shaft.

**Caution:**

The circuit breaker is rated at 1.5 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.

**Agency Approvals**

The products defined in the document are CE marked and conform to the following standards:

EMC: EC Directive 89/336/EEC

EN55011 class B also referred to as CISPR 11 class B

EN50082-1

Safety: Safety Directive 73/23/EEC

EN601010-1: 1993 safety requirements for electrical equipment for measurement, control and laboratory use-General requirements.

**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.

**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 product.

Reference the RGA 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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