



Digital Overhead Stirrer

CG-2037-E-50



OPERATIONS MANUAL



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Rev. A

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PLEASE KEEP THIS OPERATION MANUAL HANDY FOR FUTURE REFERENCE

Please check the components in the Packing list before installation

Packing list:

<u>Item Description</u>	<u>Qty.</u>	<u>Item Description</u>	<u>Qty.</u>
Overhead Stirrer	1	Stirrer Propeller	1
Base	1	Chuck Key	1
Vertical Support Rods	2	Wrench	1
Horizontal Holding Rod	1	Operation Manual	1
Support Clamp	1		

General Description:

Overhead stirrer with a digital display, two speed ranges (from 60-2000rpm), and mechanical speed adjustment. Aluminum alloy body. Output stirring speeds and torque remain virtually constant through IC controller speed detection technology. Complete unit comes with stirrer, stand, clamp to attach stirrer, and a 4-blade propeller with a diameter of 50mm. 1 year warranty.

Technical Data:

Rated Voltage (VAC): 120±10%

Rated Frequency (Hz): 50/60

Rated Torque (N-m): 0.52

Dimensions – Including stand (WxDxH) (mm): 260 x 360 x 760

Total Shipping Weight (kg): 9.9

Permissible Ambient Temp. (C): 40

Permissible Relative Humidity (%): 90

Stirring Capacity (liters of water): 20

Maximum Viscosity (mPas): 10,000

Motor Rating Input (watts): 180

Motor Rating Output (watts): 120

Speed Range (low setting rpm): 60-500

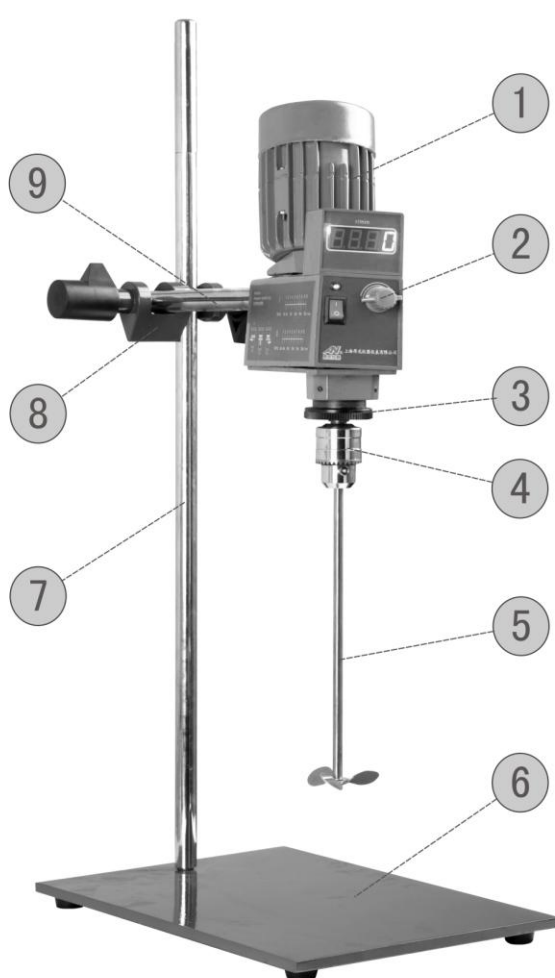
Speed Range (high setting rpm): 240-2000

Chuck Range (mm): 5-10

Precautions:



- The Stirrer should be placed in a clean and dry environment. The ambient temperature should not exceed 40°C.
- Large fluctuations of voltage may cause an unstable speed, so if needed; use of a regulated power supply is suggested.
- Avoid using the Stirrer in a severely corrosive environment.
- If the agitating medium is volatile and/or flammable, be cautious that electric sparks may cause explosions or fires.



1. Overhead Stirrer
2. Speed controller
3. Speed range shift plate
4. Chuck
5. Stirrer propeller
6. Base
7. Vertical Support rods
8. Support clamp
9. Horizontal Holding rod
10. Power indicator lamp
11. Power switch
12. Speed display
13. Speed control knob

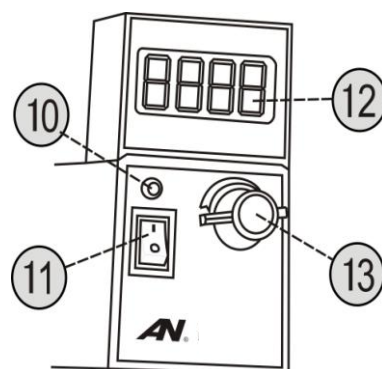


Figure 1

Installation: (Refer to Figure 1)

1. Place the Base (item #6) on a stable surface. Connect the two Vertical Support Rods (items #7) by screwing them together.
2. Assemble the Vertical Support Rods into the Mounting hole in the Base. Secure to base by using wrench provided to tighten nut.
3. Tighten the Support Clamp (item #8) to the upper end of the Vertical Support Rods.
4. Connect the Horizontal Holding Rod (item #9) to the Stirrer (item #1) by screwing into threaded mounting hole located at the rear of the Stirrer. Then install the opposite end of the Horizontal Holding Rod into the Support Clamp and tighten. The Stirrer can be easily adjusted up / down, and in / out by carefully loosening and tightening the Support Clamp.
5. When ready to use Stirrer - Install the Stirrer Propeller (item #5) by using the Chuck Key provided to loosen and tighten the opening for the Chuck (item #4).

Operation: (Refer to Figure 1)

- Before testing or operating this Stirrer, please read all instructions carefully.



To ensure the running safety of the stirrer and personnel, be sure to inspect support connections regularly.



The Stirrer should only be operated when installed on the Base. Hand held operation is prohibited.



The Overhead Stirrer cannot be used in a flammable and/or explosive environment.

- Before plugging the power cord into the appropriate grounded electrical outlet, make sure that the power switch (item #11) on the Stirrer is in the off position and the speed control knob (item #13) is in the starting/slowest position.

1. A test run is recommended before use and the stirring propeller should not be installed when testing.
2. After plugging the stirrer into the electrical outlet, turn on the power switch (item #11). The power indicator lamp (item #10) will illuminate.
3. Slowly turn the speed control knob (item #13) clockwise to increase speed. The rpm value in the digital display (item #12) will increase accordingly. Turning the speed control knob counter-clockwise will decrease the speed.

4. To change the speed range from high speed to low speed or low speed to high speed, the motor must be brought to complete stop. “I” is for low speed range; “II” is for high speed range (See Figure 2). To change the speed range from high to low, turn shift plate (item #3, in Figure 1) counterclockwise (looking down from the top) until in place, then pull down, and finally turn clockwise to reset it. To change the speed from low to high, turn shift plate (item #3, in Figure 1) counterclockwise until in place, then push up, and finally turn clockwise to reset it. When it’s in place you can hear the “click” of the Press Fit Ball Plunger.

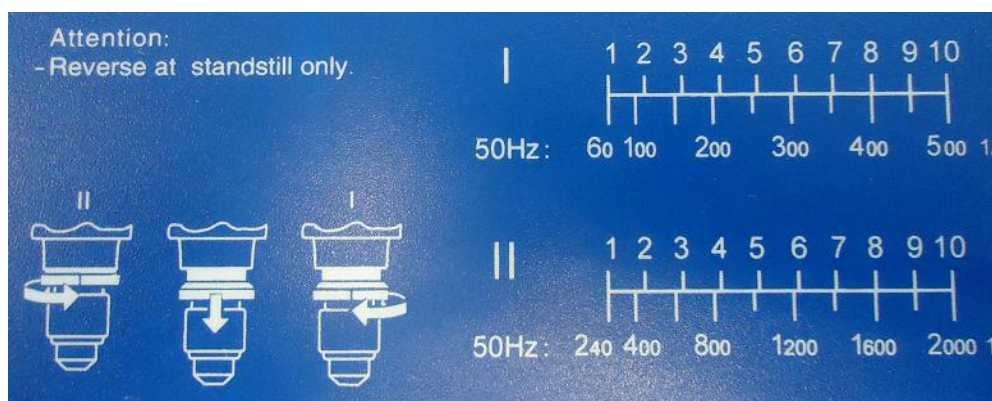


Figure 2

NOTE: If the unit has not been used for some time, a knocking noise may be heard when switching on. This is due to the preload on the friction lining of the friction wheel drive. This has no detrimental effect on the function of the unit, and the knocking noise will disappear after a short running-in period.

Maintenance and Service:

- Ensure Stirrer is unplugged before cleaning
- Do not allow moisture to get into the appliance when cleaning
- Wear protective gloves during cleaning the devices

Use to remove:

Dyes	isopropyl alcohol
Construction materials	water containing tenside/ isopropyl alcohol
Cosmetics	water containing tenside/ isopropyl alcohol
Foodstuffs	water containing tenside
Fuels	water containing tenside

If a motor failure happens, check whether the power switch is on and the unit is plugged in. Verify that the power outlet is providing the correct voltage. If these faults are eliminated and the motor failure remains, contact CG Life Sciences for service. The unit should not be opened for any reason without proper authorization.

Chemglass, Chemglass Life Sciences, Warranty and Limitation of Liability

Warranty:

Chemglass, Inc. guarantees this unit against defects in material and workmanship for a period of one year from the date of purchase. If the unit should malfunction, it must be returned for evaluation. If the unit is determined to have a defect in materials or workmanship, then it will be repaired or replaced at no charge. Tampering with the unit or damage resulting from excessive current, heat, moisture, vibration, corrosive materials, or misuse will void this warranty. Programming changes or reconfigurations are not covered under warranty. CGLS shall not be responsible to the original purchaser or any other party or parties for bodily or property loss, damages, or injuries of any kind or nature through either direct or indirect use of the product.

Return Authorization:

CGLS must authorize any return of product. Please contact a customer service representative via the correspondence listed below to obtain a Return Merchandise Authorization (RMA) number. The purchaser is responsible for all packing and shipping to CGLS. If the equipment or material came in contact or was proximate to any biological organism, toxic or corrosive material, or any agent reasonably deemed to be potentially harmful, it must be cleaned and decontaminated prior to receipt by CGLS. The purchaser is obligated to disclose fully in writing, the cleaning and decontamination method. We reserve the right not to accept any unauthorized or potentially harmful shipment.

Correspondence:

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