

**BURRELL**

Operating Manual for  
**5 Inch LED Digital  
Magnetic Stirrer**

Item #077-890-00-00



**Burrell Scientific, LLC**

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# OPERATIONS MANUAL

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*Please read the User Manual carefully before use and follow all operating and safety instructions!*

## OPERATING INSTRUCTIONS

### **WARNING**

Do not attempt to assemble, connect to power source, or operate the Burrell Mini Magnetic Stirrer without first reading these instructions. Also assure that each person that will operate this unit becomes familiar with these operating instructions.

## PROPER USE

The 5 Inch LED Digital Magnetic Stirrer is designed for mixing or stirring liquids in a wide range of industries including schools, pharmacies, laboratories or factories.

# SAFE OPERATIONS

- 1) When operating this unit always wear safety eye protection and suitable safety apparel for the material being stirred.
- 2) Do not operate this unit unattended.
- 3) Set up the stirrer in a spacious area on a stable, clean, non-slip, dry, and fireproof surface. Do not operate the stirrer in explosive atmospheres with hazardous substances.
- 4) The base plate must be clean and intact.
- 5) Do not pour liquid over the unit. Never immerse unit underwater.
- 6) Do not modify this unit or attach any accessory that is not included with the 5 Inch Magnetic Stirrer.
- 7) Do not use the stirrer if it, or its accessories, are damaged.
- 8) In all cases, stir vessels with closures or rubber stoppers.
- 9) Reduce the motor speed if the: liquid splashes out of the vessel, stirrer is not running smoothly, or vessel moves on the base plate.
- 10) If the procedure you are using involves gases or creates a hazardous environment – perform such testing in a properly ventilated fume hood. Keep in mind that working with combustible or flammable materials may result in additional hazards. Only process liquids that will not react dangerously to the extra energy produced through stirring. This also applies to any extra energy produced in other ways, i.e. through light irradiation.
- 11) Beware of hazards due to combustible liquid with a low boiling temperature, incorrect container size or unsafe condition of container, and overfilling of liquid.
- 12) If any spill occurs, assure all liquids have been cleaned up in a safe manner and the area of the operation is completely dry to avoid an electrical hazard.
- 13) This product must only be used with the power cord (and AC adapter for international use) supplied.
- 14) Ensure that the operating voltage required as stated on the stirrer and voltage in the supply network match.
- 15) Do not touch any moving parts of the stirrer.
- 16) Do not cover the unit, even partially (ie: with metallic plates or film), as this will result in the unit overheating.
- 17) Protect the stirrer and accessories from bumps and impacts.
- 18) Keep away from high magnetic field.
- 19) This unit may heat up when in use.
- 20) Always disconnect the plug when the stirrer is not in use.

## CAUTION: MAGNETISM

Please take into account the effect of the magnetic field (i.e.: data storage media, cardiac pacemakers, etc.).

*If you encounter any problems with the installation or initial operations of this unit,  
please contact us at: 412-747-2111 or [sales@burrellsci.com](mailto:sales@burrellsci.com).*

# UNPACKING YOUR STIRRER

The packing includes the following items:

- The Burrell 5 Inch LED Digital Magnetic Stirrer
- Power cord (adapter only included with international orders)
- Operating Manual
- Stirring Bar

Unpack the stirrer carefully and check for any damages that may have occurred during shipment.

*Should any damage occur in shipment, do not operate and notify us at: 412-747-2111 or sales@burrellsci.com.*

## WARNING

If there is any apparent damage to the system, please do not plug it into the power line.

# USING YOUR STIRRER

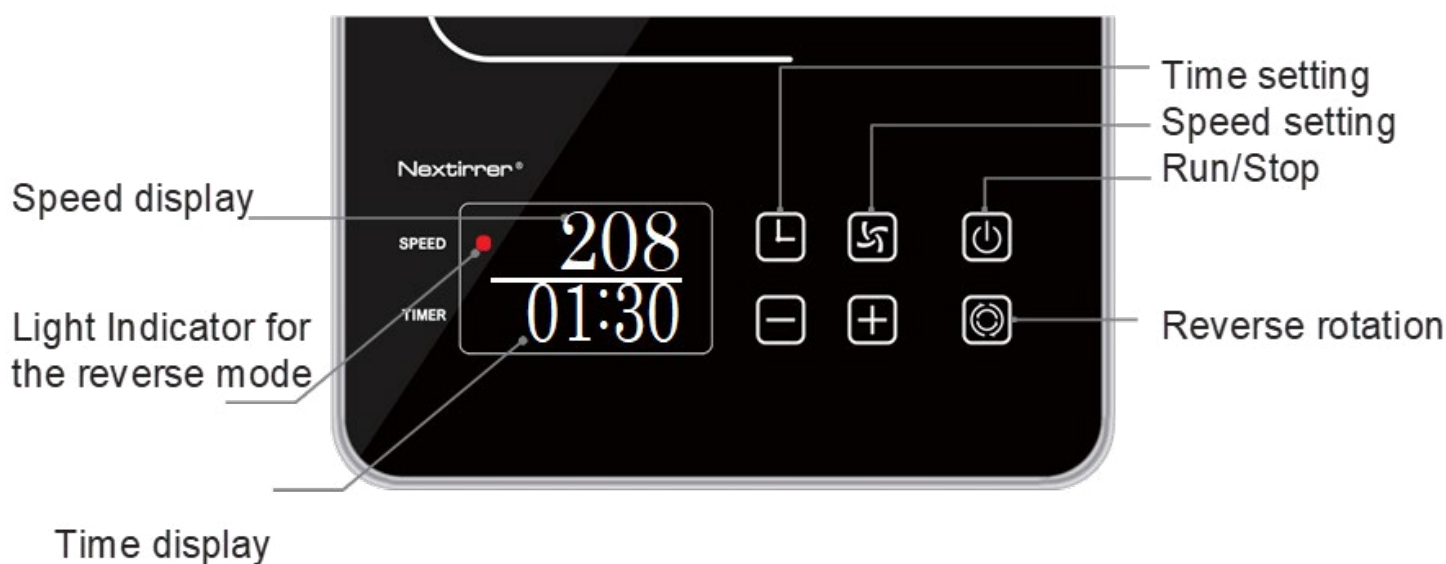
Put the stirrer on a stable and safe place and plug it into the power line.

OPERATION CONTROLS:

- START/STOP: When powered on and the unit is in standby, speed displays as “OFF” and the time displays as “---” (shown below).
- Press Start/Stop to start the unit, speed displays the actual speed (factory set speed or the last set speed); time displays the actual time (factory set speed or the last set time).



- **DISPLAY:** When setting and in standby, both the set speed and time are displayed; when in use, both the actual speed and the rest of the countdown are displayed.
- **SPEED SETTING:** When in standby, press the touch key to activate the speed setting and the speed display will start to flash; then press the “+” or “-” to set the speed. 5 seconds later, it will stop flashing and the setting is completed. The speed can be set when working.
- **TIME SETTING:** When in standby, press the touch key to activate the time setting and the time display will start to flash; then press the “+” or “-” to set the speed. 5 seconds later, it will stop flashing and the setting is completed. The time can be set when working.
- **REVERSE MODE SETTING:** When in standby, press the touch key to start the reverse rotation and the light indicator will be red. Press again, and the reverse rotation will stop, and the light indicator will turn off. When in reverse rotation, the rotation will reverse every 30 seconds, from clockwise to counterclockwise.



## MAINTENANCE & CLEANING

The following cleaners have been approved to clean the stirrer:

Dyes	Isopropyl Alcohol
Construction Materials	Water & Mild Detergent/ Isopropyl Alcohol
Foodstuffs	Water & Mild Detergent
Fuels	Water & Mild Detergent

Please contact Burrell Scientific prior to using any other cleaning or decontamination method to ascertain that this method will not destroy the stirrer. Be sure to wear the proper protective gloves during the cleaning of the stirrer.

Please Note:

- Spot clean only. Do not allow moisture to get into the unit when cleaning. The stirrer must not be placed in the cleaning agent for the purpose of cleaning.
- The stirrer must be cleaned and put into the original packaging carton before sending out for service or repair.
- When not in use, switch the stirrer to the OFF position and store in a dry, clean, and stable place at room temperature.

## ACCESSORIES

- Stirring Bar

## SERVICE

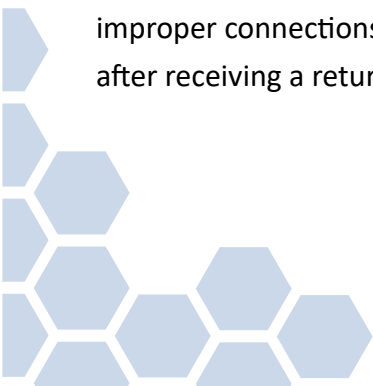
If assistance is needed, please contact Burrell Scientific for technical support.

Please provide us with the following information:

- Serial Number (if applicable)
- Certification
- Description of problem (hardware or software)
- Methods and procedures used to resolve the issue
- Your contact information

## WARRANTY

This stirrer is warranted to be free from defects in materials and workmanship under normal use and service, for a period of 12 months from the date of invoice. The warranty is extended only to the original purchaser. Warranty will not apply to any product or parts which have been damaged on account of improper installation, improper connections, misuse, accident or abnormal conditions of operations. Stirrers can only be returned after receiving a return authorization # from Burrell Scientific.



## TECHNICAL DATA

Model	007-890-00-00
Dimensions (W x D x H)	247 x 172 x 30 mm
Set-Up Plate Dimensions	128 x 128 mm
Set-Up Plate Material	Tempered Glass
Stirring Mechanism	Electromagnetism Drive
Speed Range	50-1500 rpm
Maximum Stirring Bar	40 mm
Maximum Stirring Quantity	1800 mL at 1500 rpm 2500 mL at 1300 rpm 3000 mL at 1100 rpm
Speed Display	LED
Time Display	LED
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80%
DIN EN 60529 Protection Class	IP52
Voltage	100-240 VAC
Input Voltage	24 VDC
Frequency	50/60 Hz
Power	10 W
Weight	1.6 kg



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