DigiMix - Digital Vortex Mixer User Manual



Package Contents

(1) Digital display vortex mixing device
(1) Power adapter (12V 2.08A)

Setup

Upon receiving the QorLabs DigiMix vortex mixer, check to ensure that no damage has occurred during shipment. It is important that any damage that occurred in transport is detected at the time of unpacking. If you do find such damage the carrier must be notified immediately.
After unpacking, place the DigiMix on a level bench or table, away from hazardous, flammable, or explosive vapors and substances. Ensure the surface on which the unit is placed will withstand the typical heat produced by the unit. Always place the unit on a sturdy work surface.
The DigiMix is supplied with a power adapter that should be plugged into a properly grounded outlet.
Place the unit at least 10 centimeters (4 inches) away from other objects or walls to ensure good ventilation and unit performance.

Maintenance & Servicing

The DigiMix is built to not require lubrication or other technical user maintenance.
Do not use a cleaning agents or solvents that are abrasive or plastic-degrading. Always ensure the power is disconnected from the unit prior to cleaning.

Intended Use

The DigiMix is intended for general laboratory use.

Operation

1. The Mode Button has the following functions:
    a. Long press the Mode Button to switch the unit between touch sensor (Touch) and continuous (Run) modes.
    b. Short press the Mode Button to switch between the RPM, minutes, and seconds parameters, causing them to blink. When the unit is in touch sensor (Touch) mode, the minutes and seconds parameters cannot be modified.
    c. When a parameter is blinking, it can be adjusted by turning the Parameter Knob.
    d. Short press the Mode Button again when a parameter is blinking to exit the parameter editing mode.
    e. When the unit is running or the motor is spinning, the Parameter Knob cannot edit any parameters.
2. Touch Sensor (Touch) mode: The unit is in touch sensor mode if the display reads “Touch” on the top right. In this mode, the unit operates based on the set RPM parameter if the sensors detect physical pressure on the top plate. During operation, the time parameter will display the runtime of operation. The unit will cease operation and reset the time display if the top plate no longer detects physical pressure.
3. Continuous (Run) mode: The unit is in continuous mode if the display reads “Run” on the top right. In this mode, the unit operates based on the set RPM, minutes, and seconds parameters. Press the Parameter Knob to begin or end operation. During operation, the time display will count down from the set minutes and seconds. After counting down to zero, the unit will cease operation.

The time range for Continuous (Run) mode is 1 second to 99 minutes and 59 seconds. The unit is not intended for continuous use over extended periods of time; permit the unit to cool down whenever possible to avoid damage to board and motor.

Safety Instructions



WARNING! DO NOT operate the unit in liquids or immerse the unit for cleaning. To avoid electrical shock, completely cut off power to the unit by disconnecting the power cord from the wall outlet. Disconnect unit from the power supply prior to maintenance and cleaning.
DO NOT operate the unit if it shows signs of electrical or mechanical damage.
DO NOT use the mixer in a hazardous atmosphere or with hazardous materials for which the unit was not designed. The user should be aware that the protection provided by the equipment may be impaired if used with accessories not provided or recommended by the manufacturer, or used in a manner not specified by the manufacturer.
Always operate unit on a level surface for best performance.

Specifications

Motion Type	Vortex motion
Orbital Diameter	4mm
Speed Range	100–3000 rpm
Speed Display	LCD
Run Type	Touch, Continuous
Motor Type	Brushless DC motor
Power Adapter Input	100–240 V
Power Adapter Output	12 V DC, 2.08A
Frequency	50/60 Hz
Operating Environment	41–104°F / 5–40°C
Unpackaged Weight	2.4 kg (5.3 lbs)
Unpackaged Dimensions (Length x Width x Height)	155 x 140 x 135 mm (6.1 × 5.5 × 5.3 inches)
Packaged Weight	2.9 kg (6.4 lbs)
Packaged Dimensions	240 x 190 x 185 mm (9.5 x 7.5 x 7.3 inches)