



Instruction Manual

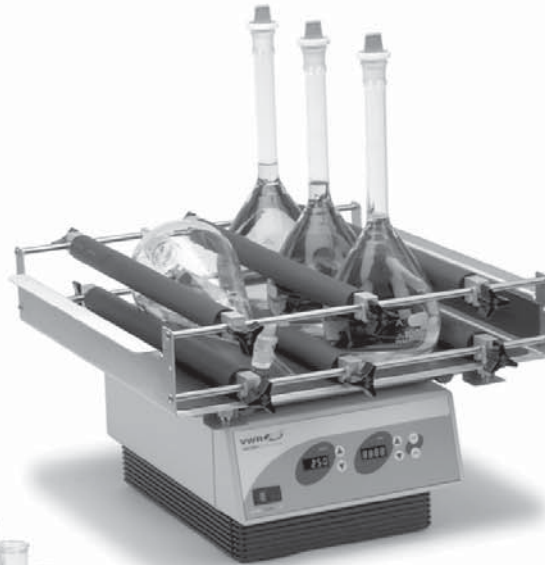


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PACKAGE CONTENTS

- Orbital Shaker
- Instruction manual
- Non-skid rubber mat
- Power Cord

CARE AND HANDLING

Upon receiving your Orbital Shaker, check the outside packaging to ensure that no damage has occurred in shipment. If damage is noticed, notify the carrier immediately and file a shipping claim.

MAINTENANCE & SERVICING

Your Orbital Shaker is built for long, trouble-free, dependable service. No lubrication or other technical user-maintenance is required. However, at least every three months you should:

- UNPLUG THE UNIT
- Remove any accumulated dirt from the base and platform
- Check all controls and accessible items to make sure they are properly tightened
- Tighten any item that is loose

ENVIRONMENTAL CONDITIONS

Non-Operating Storage:

Temperature: -20 to 65°C (-4 to 149°F)
Humidity: 20% to 85% RH, non-condensing

Operating Conditions:

Indoor use only

Temperature: 10 to 40°C (50 to 104°F)
Humidity: 20% to 85% RH, non-condensing
Altitude: 0 to 6,562 ft. (2000M) above sea level

Installation Category II and pollution degree 2 in accordance with IEC 664

SAFETY INSTRUCTIONS



Warning

Do not use Orbital Shaker in a hazardous atmosphere or with hazardous materials for which the unit was not designed. Also, the user should be aware that the protection provided by the equipment might be impaired if used with accessories not provided or recommended by manufacturer, or used in a manner not specified by the manufacturer.



Warning

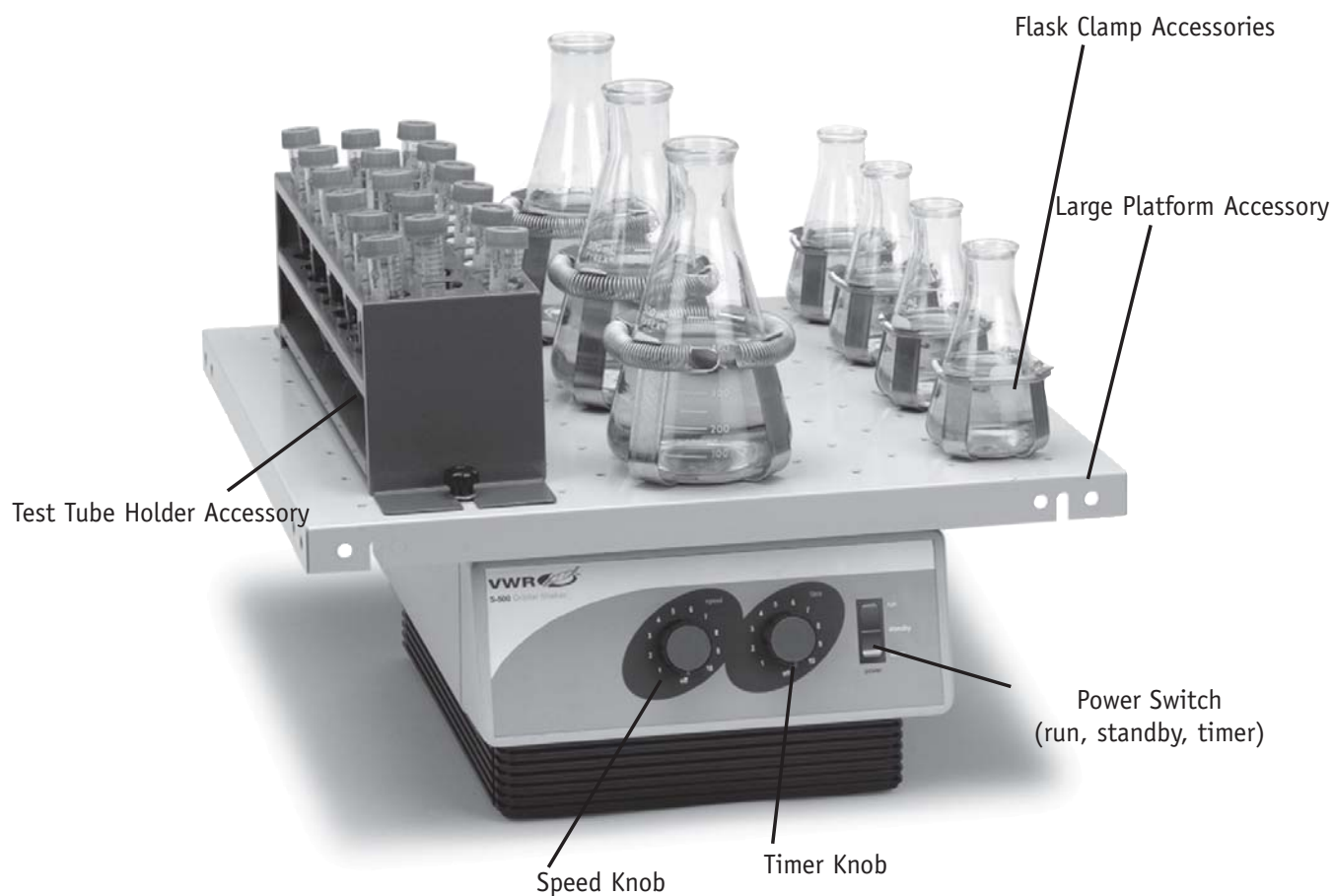
Wipe up spills immediately to prevent electrical shock. Unplug from power before cleaning and do not operate until clean up is complete. DO NOT immerse.



Warning

Do not operate the unit if it shows signs of electrical or mechanical damage.

OS-500 Orbital Shaker



Weight Capacity:

approx. 35 lbs (16kg) at 75 rpm
approx. 5 lbs (2.3kg) at 500 rpm

Orbit: .75" (1.9cm)

Speed Range: 25 to 500 rpm

Operating Temp: 4°C to 40°C

Voltage: 120 volts AC, 50/60 hertz
230 volts AC, 50/60 hertz

Current: Less than 1 amp

Fuses: 120v - 2 - 5 amp 5 x 20mm quick acting
230v - 2 - 5 amp 5 x 20mm quick acting

Power: 120 watts

Controls: On/Off Switch
Speed Knob, variable 1 to 10 markings
Timer Knob, variable 1 to 10 markings

Timer: Timer runs from 1 to 120 minutes

Dimensions: 7¼"H x 10"W x 15"D
(18.0cmH x 27.3cmW x 38cmD)

Ship weight: 50 lbs (23kg)

Pictured with optional accessories shown on page 13-15

INTRODUCTION

The 120v and 230v units are supplied with a 3-prong power cord that should be plugged into a standard 3-prong grounded outlet. If the cord supplied does not meet your needs, please use an approved power cord that suits local codes and electrical supply.

OPERATING INSTRUCTIONS

1. Please familiarize yourself with the features and operation completely before operating the unit.
2. Be sure the power switch is in the standby position. On the 230v shaker, an additional "Power Switch" is located on the back of the unit. This switch should be in the off position.
3. Plug the cord into a properly grounded three pronged outlet.
4. Your Orbital Shaker is ready for use.
5. If this is the first time use for this unit, be sure the speed knob and timer knob are set to the off position.
6. To run in continuous mode, push rocker switch to the run position. Slowly turn speed control knob to desired speed. Unit will run until you move rocker switch to the standby position. When the test is complete, press the rocker switch to the standby position. To start the next test, begin by turning the speed knob to the 1 position.
7. To run in timed mode, set timer to desired time. Turn the speed knob to the 1 position. Press the rocker to the timed position and release. Slowly turn speed knob to desired speed, the shaker will run for the set time.

OPERATION NOTES:

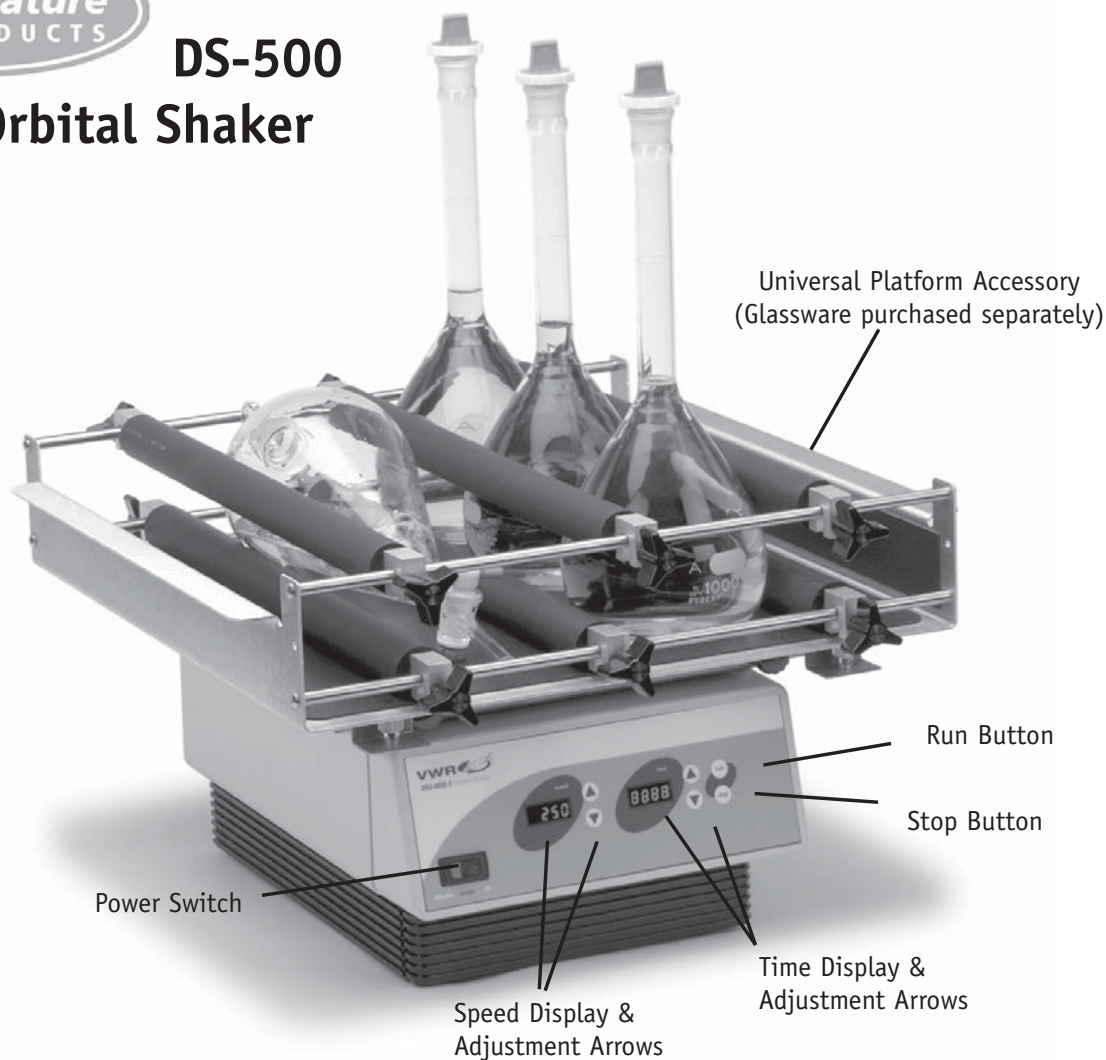
Two 5 amp fuses prevent damage to the motor or electronics.

The Orbital Shaker is designed to be balanced with the standard platform attached (platform weight is 3 lbs). At higher speeds, 200rpm and above, the shaker should be run with this weight as a minimum, on stable surface, for maximum stability.



DS-500

Digital Orbital Shaker



Weight Capacity:

approx. 35 lbs. (16kg) at 75 rpm

approx. 5 lbs. (2.3kg) at 500 rpm

Orbit: .75" (1.9cm)

Speed Range: 25 to 500 rpm

Operating Temp: 4°C to 40°C

Voltage: 120 volts AC, 50/60 hertz

230 volts AC, 50/60 hertz

Current: Less than 1 amp

Fuses: 120v - 2 - 5 amp 5 x 20mm quick acting

230v - 2 - 5 amp 5 x 20mm quick acting

Power: 120 watts

Controls: On/Off switch

LED display for Time/Speed, Up/Down

Keypad for setpoint control

Run/Stop keypad

Timer: Digital, 1 second to 9999 minutes
(increased in 1 second increments)

Dimensions: 7¼"H x 10"W x 15"D
(18.0cmH x 27.3cmW x 38.0cmD)

Ship weight: 50 lbs. (23kg)

pictured with optional accessories shown on page 13-15

INTRODUCTION

The 120v and 230v units are supplied with a 3-prong power cord that should be plugged into a standard 3-prong grounded outlet. If the cord supplied does not meet your needs, please use an approved power cord that suits local codes and electrical supply.

OPERATING INSTRUCTION

1. Please familiarize yourself with the features and operation completely before operating the unit.
2. Be sure the power switch is in the off position.
3. Plug the cord into a properly grounded three pronged outlet.
4. Your Orbital Shaker is ready for use.
5. Turn the Power on by depressing the left side of the rocker switch on the bottom left side of the control panel. LED displays for speed and timer will light.
6. Set speed by pressing the Up/Down arrows to the right of the speed display until you reach the desired speed. Adjust time using the Up/Down arrows to the right of the timer display. Press the run button. Timer LED will display time remaining.
7. To run in the un-timed mode, set the time to zero (0) using the Up/Down arrows to the right of the timer display. Press the run button and the unit will run until you press the stop button. Timer LED will display accumulated time.

OPERATION NOTES

Your Orbital Shaker automatically restarts after a power interruption. Built-in memory maintains time and speed settings during a power interruption.

The Orbital Shaker is designed to be balanced with the large platform attached (platform weight is 3 lbs). At the higher speeds, 200 rpm and above, the shaker should be run with this weight as a minimum, on a stable surface for maximum stability.