



Porta-Spin™ Centrifuge OPERATION MANUAL



Order Desk: (800) 824-3703
Online Order: www.mwivet.com

VetOne® Porta-Spin™

Centrifuge

Operation Manual

Thank you for purchasing a VetOne® Porta-Spin™ centrifuge from MWI Veterinary Supply. We appreciate your business.

For service, please contact Unico directly at 1-800-588-9776 or info@unicosci.com. For accessories and replacement parts, please call MWI at 1-800-824-3703.

Features	1
Construction.....	1
Performance	1
Capacity.....	1
Additional Features	1
Accessories.....	1
Unpacking & Setup.....	2
Operation.....	3
Safety	4
Lid.....	4
Load Balance.....	4
Electrical Shock Hazard	4
Biohazard.....	4
Maintenance.....	5
Calibration.....	5
Service.....	5
Replacing the Fuse.....	6
Problem Solving & Troubleshooting.....	7
Centrifuge does not start.....	7
Power indicator light does not come on	7
Centrifuge makes excessive noise when running.....	7
Motor operates intermittently or not at all	7
Specifications	8
Warranty.....	9
Parts Diagram.....	10

CAUTION

Please read this manual before operating your VetOne® centrifuge.

Features

The Porta-Spin portable centrifuge is specially designed to run for years of demanding laboratory work either in the field or in the lab; use it wherever a 12V DC outlet can be found, or take it back to use in the lab with the optional 120V AC adapter.

Construction

The enclosures of the Porta-Spin are made of high-impact plastic, which is acid and reagent resistant. The internal chamber is made of stainless steel. A safety switch is built into the lid and disconnects the power to the motor whenever the lid is unlatched. The motor is mounted on rubber mounts to provide quieter running and less vibration. The stainless steel rotor chamber can be easily cleaned and disinfected.

Performance

Maximum speed depends on the number and size of the test tubes being spun. With 6 tubes in place, the nominal speed of the Porta-Spin™ is 3,700 RPM with the 12V DC power source and 3,500 RPM with the 120V AC power source.

Capacity

The Porta-Spin comes equipped with a fixed-angle 6-place rotor designed for use with standard 2–15 mL tubes. It will also spin up to three 15 mL tubes. You can spin 2 mL and 4-5 mL tubes with the following adapters, which are available from MWI.

- 605015 Adapters for 2 mL or smaller tubes, Pack of 2
- 606015 Adapters for 3.5 mL–7 mL tubes, Pack of 10

Additional Features

- Dependable mechanical 30-minute timer with bell signal at end of the cycle
- Fish-Eye Level built into the lid to make sure the unit is level before operation
- Safety switch in lid shuts off motor when lid is unlatched
- Latch release is located on the right front side of unit
- Indicator light illuminates when unit is powered on
- Sturdy stainless steel handle for easy carrying

Accessories

An 8-place rotor and Tube Holdster™ 18-Place Tube Rack (which can be mounted to the side of the centrifuge) are available (optional equipment is sold separately).

Unpacking & Setup

Please examine the shipment upon receiving and retain all packing until you have set up and tested the unit. Inspect the unit carefully for any possible shipping damage. The warranty excludes any damage caused by shipping. If you note any damage, please contact the shipping company or MWI. Save the original packaging. If it becomes necessary to return the instrument to us, we ask that it be returned in the original packaging.

Unpack the shipping carton carefully and verify that the shipment is complete. It should include the following items:

- Porta-Spin Centrifuge
- DC Car Adapter Power Cord
- Operation Manual

No on-site installation is required. The centrifuge rotor is pre-installed. No rotor installation or calibration is required.

To set up the centrifuge, first remove it from the shipping carton and place it on a sturdy flat surface.

Press the lid latch release button located on the right side of the unit to open the centrifuge cover. A Styrofoam disc is packed inside the lid of the centrifuge to prevent damage during shipping. **REMOVE THIS PACKING DISC BEFORE OPERATING THE CENTRIFUGE.**

Plug in one end of the power cord to the power inlet located on the back of the centrifuge and plug the other end into a 12V DC outlet, or to a wall plug if you are using the 120V AC adapter (sold separately).

CAUTION: Make sure the voltage of the power source matches the voltage input of centrifuge.

Operation

Set the timer control knob to 0.

Plug the centrifuge into a power source (12V DC or 120V AC).

Open the lid by pressing the lid-opening button(s) on each side of the lid.

Place your specimen tubes into the tube shields of the rotor.

Using the level built into the lid, make sure that the centrifuge is level before spinning.

CAUTION: Make sure that the specimen tubes are balanced. See Safety section on next page.

Close the lid firmly.

Turn the timer knob clockwise to set the desired time (2 minutes or more).

Turn the power switch on.

After the cycle has finished (when the signal bell rings) and the centrifuge rotor has come to a complete stop, open the lid.

Safety

Your Porta-Spin centrifuge is a carefully designed and built instrument. When operated properly, it presents no safety hazards. However, we recommend observing the following safety precautions.

Lid

Never open the lid until the rotor has come to a complete stop.

Load Balance

Always make sure that the load is balanced before operating the centrifuge.

It is very important that test tubes with equal loads are placed opposite each other in the rotor. When spinning a single specimen tube, place another specimen tube of the same size filled with water directly across from the specimen tube to maintain balance. If the centrifuge is not properly balanced, damage could occur. If you notice excessive noise or vibration during a run, stop the centrifuge and recheck the load balance.

Electrical Shock Hazard

- Do not attempt to operate the centrifuge near a water or liquid spill.
- Unplug the centrifuge before cleaning or repairing it.
- Periodically check the power cord for cuts or damage.
- Do not operate the unit if the power cord is damaged.

Biohazard

If a tube breaks, a biological hazard may exist. Unplug the centrifuge immediately and clean the spill using approved laboratory procedures. Always wear the proper protective eyewear, clothing and gloves. Use a suitable disinfectant and dispose of the sample properly.

Refer to the guidelines set forth by OSHA, CLIA, etc., for more information about biohazards.

Maintenance

This centrifuge is designed to be relatively maintenance free. The motor is a brushless type and has permanently sealed bearings, so oiling is not necessary.

CAUTION: Disconnect the power before cleaning the centrifuge.

Use a surface cleaner or cold sterile liquid to clean the outside of the unit. Disinfect the rotor chamber and cover with a mild solution of bleach or other cold sterile disinfecting liquid.

CAUTION: Do not drench or immerse the unit in any liquid.

Calibration

Both the FDA and CLIA guidelines recommend calibrating your centrifuge's RPM at least every 6 months.

Service

If your centrifuge needs factory service, please call Unico at 1-800-588-9776 and speak to a customer service representative to determine the nature of the problem. Simple problems may be resolvable over the telephone. If the instrument needs to be returned, the customer service department can assist you.

REPAIRS OR MODIFICATIONS MADE TO THE CENTRIFUGE BY AN UNAUTHORIZED PARTY MAY VOID THE WARRANTY.

Replacing the Fuse

CAUTION: Disconnect the power cord before replacing the fuse.

Turn the power switch off.

Remove the power cord from both the power outlet and the power inlet on the back of the centrifuge.

Locate the fuse holder, which is a part of the power inlet.

Use a Phillips screwdriver to take the snap-in type holder cover off.

Remove the blown fuse and replace it with a fuse of the same type and rating (250V 3A).

Replace the snap-in fuse holder.

Problem Solving & Troubleshooting

If you are having difficulty operating your centrifuge, the following information may help you to solve the problem.

Centrifuge does not start

- Is the power cord properly connected to both the power inlet and an appropriate power outlet?
- Is the power switch on?
- Is the lid closed and latched?
- Has the timer been set?

Power indicator light does not come on

If the indicator light still does not come on after you have ensured that the unit is plugged in and turned on, that the door is latched, and that the timer is set, the fuse may be blown. See “Replacing the Fuse” on the previous page.

Centrifuge makes excessive noise when running

If the noise is irregular or different in tone, be sure that there is no paper or debris in the rotor or rotor chamber. Make sure that the load is balanced.

Motor operates intermittently or not at all

Call Unico at 1-800-588-9776 for troubleshooting and service. Unico will provide service regardless of whether the unit is in warranty; however, service charges may apply.

Specifications

Speed	3,500 RPM with 120V AC 3,700 RPM with 12V DC
Width	10.2"
Depth	11.8"
Height	8"
Weight	15 lb

Warranty

This instrument is warranted against defects in materials and workmanship for a period of one (1) year from the date of shipment to the customer.

This warranty is limited to the repair and replacement of parts, which prove to be defective during the warranty period.

This warranty is not valid for parts damaged, lost, or which fail because of accident, fire, theft, acts of nature, negligence, or the use of chemicals, which have a deleterious effect.

This warranty is conditioned upon the manufacturer retaining the option of replacing parts up to and including the entire instrument.

This warranty will not extend to any repairs or modifications made to the instrument by some party other than the manufacturer or a party authorized by MWI Veterinary Supply and the VetOne® brand.

This warranty shall be in effect only upon the notice of the defect to the manufacturer or its authorized distributor, or dealer, within five (5) days after the occurrence of said defect.

No other warranty of any kind is made expresses or implied. The warranty described above shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described above, shall constitute complete fulfillment of all liabilities and responsibilities of the manufacturer to the purchaser with respect to the product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise.

In no event shall the manufacturer, MWI Veterinary Supply, or the VetOne® brand be liable, or in any way responsible for any damages or defects in the product that were caused by repairs or attempted repairs performed by anyone other than the manufacturer's dealer or station, nor shall the manufacturer, MWI Veterinary Supply, or VetOne® brand be liable or in any way responsible for any incidental or consequential economic or property damages. Some states do not allow the exclusion of incidental or consequential damage, so the above exclusion may not apply to you.

Parts Diagram



- 1) Stainless Steel Carry Handle
- 2) Fish Eye Level
- 3) 12V DC Car Lighter Adapter



Porta-Spin™ and Tube Holdster™ are registered trademarks of United Products and Instruments, Inc., DBA UNICO.