



MiniSpin & MiniSpin PLUS *Next Generation* Microcentrifuge User Manual



NO TOOLS REQUIRED!

ISO
13485:2003
CERTIFIED

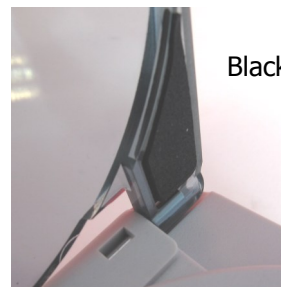
Visit Our Website www.vetlabsupplies.co.uk

1.0 INTRODUCTION

The Next Generation MiniSpin and MiniSpin **PLUS** are Microcentrifuges designed for fast centrifuging of small volumes of biological fluids. Ideal for separating serum or plasma from blood cells in whole blood samples, performing microhaematocrit (packed cell volume) estimations on anticoagulated blood samples and preparing urine for sediment examinations. A variety of capped plastic blood tubes can be accommodated from 1.5ml to 2ml volume. Both centrifuges feature a new Rotor Clip System to make rotors simple and quick to change. A timer is provided and is set manually for each run.

2.0 ACCESSORIES SUPPLIED

- ♦ 1 x 4-Place Black Tube Rotor with 4 Tube Holders
- ♦ 1 x Microhaematocrit Rotor with Lid (MiniSpin **PLUS** NG only)
- ♦ Reader Card (MiniSpin **PLUS** NG only)
- ♦ Black Lid Cushions x 2 - Already Fitted



3.0 TECHNICAL SPECIFICATIONS

3.1 MiniSpin NG and MiniSpin PLUS NG Microcentrifuge

- ♦ Dimensions: 155 (L) x 168 (W) x 118 (H) mm
- ♦ Net Weight: 1.2Kg
- ♦ Fixed Speed: 10000 rpm
- ♦ RCF: 5,610g
- ♦ Power: AC85-250V 50HZ/60HZ
- ♦ Fuse: 3A, 250V
- ♦ CE Marked

3.2 4-PLACE BLACK TUBE ROTOR

- ♦ Holds up to 4 x 2ml screw-capped tubes for 2ml plastic screw-capped blood tubes (10mm diameter body with 12mm diameter cap).
- ♦ Holds up to 4 x 1.5ml microcentrifuge/ependorf/conical bottom tubes.



3.3 MICROHAEMATOCRIT ROTOR

- ♦ Holds 12 x 40mm glass microhaematocrit capillaries.
- ♦ Capillary slots numbered for I.D. reference.

HEALTH & SAFETY PRECAUTIONS

- ♦ Please read the manual before use.
- ♦ To avoid damage to your centrifuge please use only the accessories supplied and the recommended blood tubes/microhaematocrit tubes.
- ♦ Ensure the black lid cushions are fitted before use.
- ♦ Make sure the rotors are clipped down securely before use.
- ♦ Make sure the centrifuge has stopped spinning before opening the lid.
- ♦ Do not move the centrifuge during operation.
- ♦ Set manual timer for each run and turn off the unit on completion: do not leave unit running.
- ♦ Please make sure all tubes in the 4-Place Black Tube Rotor are balanced symmetrically. (Not necessary with microhaematocrit capillaries.)

4.0 OPERATING INSTRUCTIONS

4.1 Place the MiniSpin on a clean level surface near a mains power outlet.

4.2 Ensure the mains supply switch and the power button (located at the back of the unit) are **OFF**.

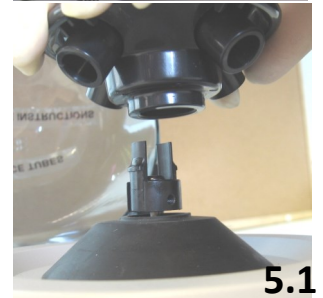
4.3 Plug in the power lead in to the mains supply and switch on.

4.4 PRESS DOWN the **lid release tab** to open the lid.



5.0 USING 4-PLACE BLACK TUBE ROTOR

5.1 To attach the 4-Place Black Tube Rotor, line up the rotor centre with the black clips and push down until it clicks firmly in place. When using the 4-Place Black Tube Rotor please ensure that the **Tube Holders** are in place before loading your sample tubes.



5.2 Load the sample tubes in to the tube holders and **BALANCE!**

To BALANCE: Use tubes of the same type, with equal volume of sample positioned directly opposite each other.

YOUR CENTRIFUGE WILL BE NOISY, VIBRATE AND MOVE IF NOT BALANCED! TURN OFF IMMEDIATELY AND RE-BALANCE YOUR TUBES.



5.3 Close the centrifuge lid **carefully** by pressing it down until the lid release tab engages.

5.4 Switch the power button **ON** at the back of the unit. The motor should be quiet and the centrifuge stable on the bench – if not, check that the tubes are balanced correctly.

5.5 Set your timer and start the run. **Turn off** the unit as soon as your timer goes off and the run is completed.

| Recommended Spinning Times | |
|----------------------------|--------------------|
| Serum/Plasma | 2 minutes minimum |
| Urine | 20 seconds maximum |

5.6 When your timed run is complete, switch the power button **OFF** at the back of the unit and wait until the centrifuge has **stopped** completely.

5.7 Press the **lid release tab** down to open the lid and remove the sample tubes holders.

5.8 Under no circumstances should you remove rotors by pulling them off the black clip system which sits on the spindle. **See 5.9** for the correct removal procedure.

5.9 To remove the black tube rotor, firstly remove the TUBE HOLDERS. Then place the fingers of both hands underneath the rotor and squeeze/ pinch the **TOP** of the clips inwards using your thumbs lifting the rotor off/up **vertically** at the same time. Remember...**Squeeze & Lift!**

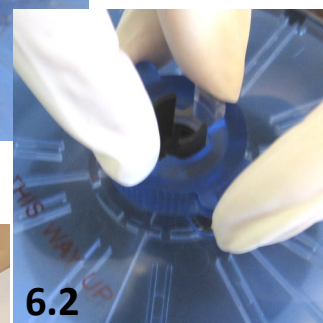
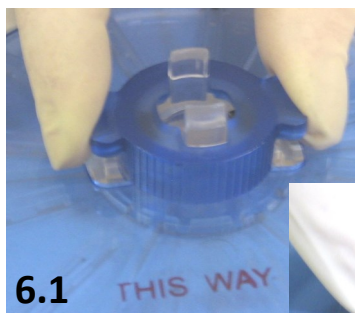


USING THE MICROHAEMATOCRIT ROTOR

6. START BY REMOVING THE ROTOR LID

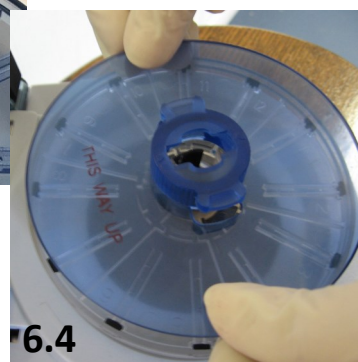
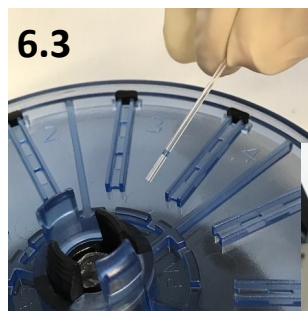
6.1 Begin by holding the LARGE wings with your finger and thumb.

6.2 Then using your other hand squeeze/pinch in the other clips simultaneously and lift off the rotor lid.



6.3 FIRSTLY - ATTACH THE BASE ONLY

Line up the base with the black markers, push down until it clicks on. Load your 40mm capillary tubes into the numbered ID slots in the rotor base with the sealant end pointing **outwards** sitting against the small black rim gasket stickers.



6.4 REPLACE THE ROTOR LID!

Replace the rotor lid and close the centrifuge lid carefully.

Set your timer and start the run. **Turn off** the unit as soon as your timer goes off and the run is completed.

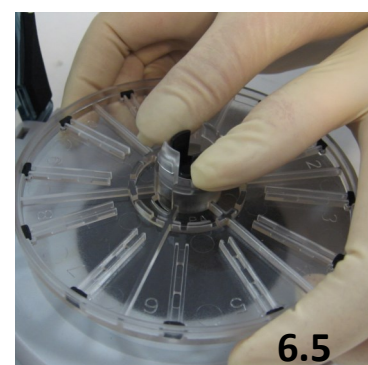
Recommended Spinning Time

| | |
|------------------|-------------------|
| Microhaematocrit | 3 minutes minimum |
|------------------|-------------------|

After spinning, remove the rotor lid (see step 6.1 & 6.2) leaving the capillaries in the base section. Remove and read.

6.5 REMOVING THE ROTOR BASE

To remove the lower section of the rotor place fingers of both hands underneath the rotor and use the sides of your thumbs to squeeze/pinch the **TOP** of the black clips inwards and then lift off the rotor vertically.



Do Not Pull Rotor Off The Spindle Clip

Squeeze & Lift Vertically

IMPORTANT DO NOT USE TOOLS OF ANY DESCRIPTION TO REMOVE ROTORS. FOLLOW INSTRUCTIONS PROVIDED.

ONE YEAR WARRANTY

MiniSpin NG Warranty Terms & Conditions

The MiniSpin NG comes with a **One Year Warranty** from date of purchase. The warranty terms and conditions have been enclosed with your documentation. We would ask you to read these carefully and ensure that you keep details of your serial number and date of purchase.

If you have any questions about using the MiniSpin NG or MiniSpin **PLUS** NG
Please Telephone our Technical Helpline: **01798 874871**