The Right Solution for Every Application



EZEEFUGE AND EZEEFUGE-R (-EU)

Bench-top and refrigerated centrifuges



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Preface

Before starting to use the centrifuge, read through this instruction manual carefully and follow the instructions.

Failure to follow the instructions and safety information in this instruction manual will result in the expiration of the warranty.

Items Supplied

Item	Quantity
Cleaver Scientific EZEEFUGE / EZEEFUGE-R / EZEEFUGE-R-EU	1
Power Supply Cable	1
Angle Rotor, 24 x 1.5/2.0ml	1
Tool for Rotor Exchange	1

If any parts are missing, please contact the nearest Cleaver Scientific representative.

Intended Use

This centrifuge is a laboratory product used to separate substance mixtures of different densities.

This centrifuge must be operated by trained specialists only.



Precautions

WARNING

Observe the safety instructions. Not following these instructions can cause damage.

The centrifuge is to be used for its intended use only. Improper use can cause damages, contamination, and injuries with fatal consequences.

The centrifuge should be operated by trained specialists only.

To ensure safe operation of the Cleaver Scientific Micro 24 / 24R Micro Centrifuge, general safety regulations must be followed. Mind the regulations in your country.

Set Up Conditions

WARNING

- Plug the centrifuge only into sockets which have been properly grounded.
- Turn off the centrifuge at the main switch. The mains plug must be always freely accessible. Press the STOP key to shut down the centrifuge.

Pull out the power supply plug or disconnect the power supply in an emergency.

- As safety zone maintain a clear radius of at least 30 cm around the centrifuge. Do not place any dangerous substances within this security zone.
- Set up in a well-ventilated environment, on a horizontally levelled and rigid surface with adequate load-bearing capacity.

Preparation

WARNING

- It is the obligation of the operator to make sure, that the proper protective clothing is used. Mind the "Laboratory Biosafety Manual" of the World Health Organization (WHO) and the regulations in your country.
- Do not make any changes to the mechanical components of the rotor.
- Do not touch the electronic components of the centrifuge nor alter any electronic or mechanical components.
- Use only with rotors which have been properly installed.
- Do not use rotors, buckets or accessories which show any signs of corrosion or cracks. Contact technical support for further advice or inspections.



- Use only with rotors which have been loaded properly.
- Never overload the rotor.
- Always balance the samples.
- Use only rotors and accessories for this centrifuge which have been approved by Cleaver Scientific. Exceptions to this rule are commercially available glass or plastic centrifuge labware, provided they have been designed to fit rotor or adapter cavities and are approved for the speed or the RCF value of the rotor.
- Make sure the rotor is locked properly into place before operating the centrifuge.
- Implement measures which ensure that no one can approach the centrifuge for longer than necessary while it is running.

Hazardous Substances

WARNING

- Especially when working with corrosive samples (salt solutions, acids, bases), the accessory parts and vessel must be cleaned thoroughly.
- Do not centrifuge explosive or flammable materials or substances.
- The centrifuge is neither inert nor protected against explosion. Never use the centrifuge in an explosion-prone environment.
- Do not centrifuge toxic or radioactive materials or any pathogenic micro-organisms without suitable safety precautions.

For materials in a higher risk group, extra safety measures have to be taken.

- If toxins or pathogenic substances have contaminated the centrifuge or its parts, appropriate disinfection measures must be taken.
- Extreme care should be taken with highly corrosive substances which can cause damage and impair the mechanical stability of the rotor. These should only be centrifuged in fully sealed tubes.
- If a hazardous situation occurs, turn off the power supply to the centrifuge and leave the area immediately.

Operating

WARNING

- Never use the centrifuge if parts of its cover panels are damaged or missing.
- Never start the centrifuge when the centrifuge door is open.
- Do not move the centrifuge while it is running.



- Do not lean on the centrifuge.
- Do not place anything on top of the centrifuge during a run.
- Never open the centrifuge door until the rotor has come to a complete stop and this has been confirmed in the display.
- The emergency door release may be used in emergencies only to recover the samples from the centrifuge, e.g. during a power failure (see section <u>"Mechanical Emergency Door Release" on page 27</u>). Do not open the centrifuge, while it is running.

In any case of severe mechanical failure, such as rotor or bucket crash, the centrifuge is not aerosol tight. In case of rotor failure, the centrifuge can be damaged. Leave the room. Inform technical support.

Maintenance

WARNING

The centrifuge housing is not to be opened by the operator. For user perform maintenance and care, refer to page 24.



Symbols used in the manual



This symbol refers to general hazards. CAUTION means that material damage could occur. WARNING means that injuries or material damage or contamination could occur.



This symbol refers to biological hazards. Observe the information contained in the instruction manual to keep yourself and your



This symbol refers to electrical hazards.

environment safe.



Technical Specifications

Technical Data





	Cleaver Scientific EZEEFUGE	Cleaver Scientific EZEEFUGE-R(-EU)
Max RPM	16,500 rpm	16,500 rpm
RPM accuracy	±20 rpm	±20 rpm
Max RCF	20,625 × g	20,625 × g
Max Capacity	12 × 5ml	12 × 5ml
Set Time	1s to 99h 59min 59s	1s to 99h 59min 59s
Temp Range	NA	-8°C to 40°C *
Temp Accuracy	NA	±1.0°C
Power Supply	AC 200-240V, 50Hz	AC 200-240V, 50Hz
Current	0.96A	1.91A
Sound Level	≤ 62dBa	≤ 58dBa
Dimension WxDxH	270 x 335 x 245 mm	295 x 470 x 330 mm
Weight	15 kg	36 kg

Refrigerants

Article No.	Centrifuge	Refrigerant	Quantity	Pressure	GWP	CO ₂ e
EZEEFUGE-R	Cleaver Scientific EZEEFUGE-R	R-134a	0.265 kg	26 bar	1430	0.38 t
EZEEFUGE-R-EU	Cleaver Scientific EZEEFUGE-R-EU	Propane R290	0.43 Kg	43 bar	3.3	0

EZEEFUGE-R : Contains fluorinated greenhouse gases in a hermetically sealed system.

EZEEFUGE-R-EU: R290 extremely pure form of propane.



Rotor Selection

The Cleaver Scientific standard EZEEFUGE / R Centrifuge package is supplied with the EZEERotor-2. Various rotors are available. If not stated otherwise the rotors can be used in the Cleaver Scientific EZEEFUGE / R centrifuge.

Cat. No.	Туре	Capacity	Max Speed (rpm)	RCF (x g)
EZEEROTOR-5		Angle Rotor, 12×1.5/2.0ml	16,500	15,720
EZEEROTOR-2		Angle Rotor, 24×1.5/2.0ml	15,000	20,625
EZEEROTOR-0.2		Rotor, 8 x PCR Strips	14,000	14,395

For further details on rotor use and safety, additional accessories, adapters, and spare parts, please visit our website at: https://www.cleaverscientific.com/





Transport and Set Up

Before Setting Up

• Check the centrifuge and the packaging for any shipping damage. Inform the shipping company and Cleaver Scientific immediately if any damage is discovered.

- Do not START the unit before you remove the cushioning material in the centrifuge chamber.
- Removing the Packaging Materials

To protect it from shock and vibration during transit, this centrifuge comes packaged in cushioning foam and secured with tape. Remove these protective materials after bringing the centrifuge to where it will be installed.

- 1. Lift the centrifuge out of the carton with two people by griping on under sides of the centrifuge.
- 2. Remove the plastic bag/wrap.
- 3. Power on the unit. DO NOT START!
- 4. Press on the red Open button to open the lid.



- 5. Remove all cushioning foam inside the chamber before use.
- Check, if the items supplied are complete. See "Items Supplied" on page 6. If the items supplied are incomplete, please contact Cleaver Scientific.



WARNING

• Keep the polythene materials (bags, etc.) supplied with this machine away from babies and small children at all times. Suffocation can result if polythene materials are brought into contact with the mouth or nose.

• When lifting the centrifuge, grips on under sides. The centrifuge could break or cause an injury if dropped.

Location

The centrifuge is only to be operated indoors. The set-up location must fulfill the following requirements:

- A safety zone of at least 30 cm must be maintained around the centrifuge. People and hazardous substances must be kept out of this safety zone while centrifuging.
- The supporting structure must be stable and free of resonance.
- The supporting structure must be suitable for horizontal setup of the centrifuge.
- The centrifuge is not to be exposed to heat and strong sunlight.

WARNING

UV rays reduce the stability of plastics.

Do not subject the centrifuge, rotors and plastic accessories to direct sunlight.

• The set-up location must be always well-ventilated.

Transporting

WARNING

Always lift the centrifuge from both sides. Never lift the centrifuge by its front panel, its back panel or at its door. Always remove the rotor before moving the centrifuge.

Due to its weight, the centrifuge should be carried by at least two people. Always lift the centrifuge at both sides.



To prevent possible injuries at least two people should lift and carry the centrifuge by holding it at the bottom from opposite sides.

Transport the centrifuge and accessories upright within the associated packaging, if possible.



NOTICE

Store the original centrifuge packaging. Contact a shipping company or the technical support for the transport.

Always remove the rotor before moving the centrifuge. If you do not remove the rotor you might damage the centrifuge drive or centrifuge spindle.

Leveling

If the centrifuge isn't leveled, imbalances can occur and the centrifuge can be damaged. Do not place anything under the centrifuge feet to level the centrifuge.

The centrifuge is to be placed on horizontal and level supporting structures or benching. Horizontal level is to be checked when moving the centrifuge to a new location.

Mains Connection

NOTICE

Plug the centrifuge into grounded electrical sockets only.

- 1. Turn off the power supply switch when not in use. Power supply switch on the left hand side of the Micro 8 / 24R.
- 2. Check whether the cable complies with the safety standards of your country.
- 3. Make sure that the voltage and frequency correspond to the figures on the rating plate.
- 4. Establish the connection to the power supply with the connecting cable.

Storage

WARNING

When removing the centrifuge and accessories from use if necessary clean, disinfect or decontaminate the entire system. In doubt contact the Cleaver Scientific technical support.

- Before storing the centrifuge and the accessories, it must be cleaned and if necessary disinfected and decontaminated. Centrifuge, rotors, buckets and accessories have to be thoroughly dried before storage.
- Store the centrifuge in a clean, dust-free location.
- Be sure to place the centrifuge on its feet.
- Avoid direct sunlight.



Shipping

WARNING

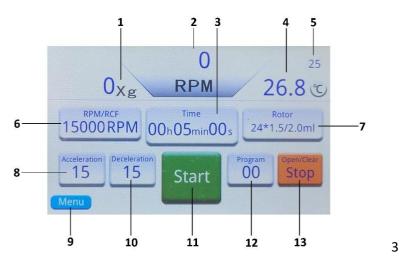
Before shipping the centrifuge, please bear the following in mind:

- The centrifuge must be clean and decontaminated.
- The decontamination must be confirmed in a decontamination certificate. Contact technical support for more details.



Touchscreen Control Panel

Control Panel





The control panel contains the keys and displays of the centrifuge (only the power switch is located on the left-hand side

- 1. Actual centrifugal force
- 2. Actual rotating speed
- 3. Time display
- 4. Current temperature inside the chamber
- 5. Set Temperature
- 6. Set RPM/RCF
- 7. Rotor type
- 8. Acceleration rate
- 9. Menu
- 10. Deceleration rate
- 11. Start
- 12. Program number
- 13. Stop / Door Open





Operation

NOTE Only display pictures of the EZEEFUGE-R centrifuge are shown. The display of the EZEEFUGE centrifuge is the same only missing the details for temperature.

Switching on the Centrifuge

- 1. Turn on the power switch of the device. The device performs a self-check of its software.
 - a) When the centrifuge door is closed the display shows:

The speed and time display read "0" and "00:00:00"; the current temperature inside the rotor chamber is displayed (for EZEEFUGE-R only).

Open the Centrifuge Door

To open the door press



WARNING

Do not reach into the gap between the centrifuge door and the housing.

Use the emergency release only for malfunctions and power failures (see "Mechanical Emergency Door Release" on page 27).

Keep hands and objects well clear of the underside and side of the centrifuge door when closing.

Close the centrifuge door by pressing down on it lightly in the middle or on both sides of it. The centrifuge door mechanism will click and lock in place. Lids should not be slammed as excessive force may cause damage or disrupt samples.

NOTICE

The centrifuge door should audibly click into place.

Rotor Installation



The approved rotors for the Cleaver Scientific Micro 24/24R are listed in section "Rotor Selection" on page 12. Use only the rotors from this list in the centrifuge.

CAUTION

Unapproved or incorrectly combined accessories can cause serious damage to the centrifuge.

Use the tool provided on the right-hand side of the centrifuge to tighten the rotor to the centrifuge spindle.

Proceed as follows:

- 1. Open the centrifuge door and if necessary, remove any dust, foreign objects, or residue from the chamber.
- 2. Place the rotor over the centrifuge spindle and lower vertically and slowly down the centrifuge spindle. Use the locking nut provided to tighten the rotor onto the spindle. Hand tight is sufficient.

CAUTION: Do not over tighten the rotor onto the centrifuge spindle.

3. Check if the rotor is properly installed by lifting it slightly on the handle or from beneath the rotor. If the rotor can be pulled up, then it must be reconnected to the centrifuge spindle.

WARNING: If the rotor cannot be properly secured in place. Check for any damage to the rotor and the spindle: Damaged rotors must not be used. Keep the centrifuge spindle area of the rotor clear of objects.

If in doubt, please call Cleaver Scientific Technical support.

CAUTION: Check that the rotor is properly locked on the centrifuge spindle before each use by pulling it at its handle or from beneath the rotor. The rotor must be locked tight.

4. Close the centrifuge door.



Acceleration / Deceleration Rates

The Cleaver Scientific Micro 24 / 24R offers you 15 profiles each plus the ability to have the option to set to "0" brake. The setting is displayed above the ACCEL / DECEL button on the touchscreen.

Press the ACCEL / DECEL button to key in the desired rates. Press Enter to confirm. The last profile is saved when you restart the centrifuge.

Pre-Selecting Speed/RCF

RPM stands for Revolutions Per Minute.

RCF stands for Relative Centrifugal Force and allows better transfer of protocols between centrifuges and rotors of differing size.

Ensure that the rpm or RCF is correctly set.

- 1. Press the RPM/RCF button to select RPM or RCF.
- 2. Enter the desired value by using the number keypad and press Enter to confirm. RPM / RCF can be viewed during a run on the top left-hand corner of the screen.

NOTICE

The minimum motor speed is 150 rpm. Any extremely low rcf settings will be automatically increased to the minimum rcf at 150 rpm.

Running Time Pre-Selection

- 1. Press the Time display window to access the number keypad.
- 2. Enter the desired runtime in hh:mm:ss.
- 3. Press Enter to confirm.

Preselecting the Temperature

You can preselect temperatures between -20 °C and +40 °C. To set the temperature, proceed as follows:

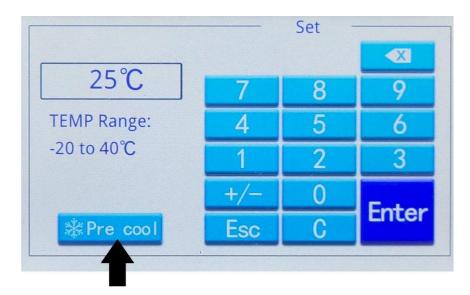
- 1. Press the TEMP display area to access the number keypad.
- 2. Key in the desired temperature.
- 3. Press Enter to confirm.



Precooling the Centrifuge

Ensure the rotor, buckets and accessories are correctly in place and securely attached in the chamber. For setting the pretemp value for the centrifuge proceed as follows:

1. Press the TEMP display area to access the number keypad. On the bottom left corner of the screen, press the <Pre cool> button.



*Temperature can reach up to -20 ℃ at optimal laboratory conditions (laboratory ambient temperature -11℃).

2. The centrifuge motor will start and a specific speed defined by the rotor. This improves air circulation within the chamber, resulting in improved temperature control throughout the chamber and rotor. The rotor chamber is cooled down to the preset temperature.

Programs

The Cleaver Scientific Micro 24 & Micro 24R Centrifuge is able to save up to 30 programs. It is only possible to save a program if the centrifuge is in standstill. Loading or saving of programs is not possible if the centrifuge is spinning.

Saving a Program

- 1. Press on <Program> and select Program No. you want to modify.
- 2. Modify the speed, time and temperature to the desired setting.
- 3. The program is automatically updated after you finished.

Selecting a Program

Press on the <Program> button and scroll through the list to select the desired program. Press <Enter> button to confirm.



Centrifugation

Maximum Loading

WARNING: Injuries with fatal consequences can occur when using substance mixtures with a higher density than 1.2 at maximum speed .

Rotors can run at high speeds. Each rotor is specifically designed to run at its maximum speed with a defined load. For further details refer page 12 to find maximum speed allowed for the corresponding rotor,

The rotors are designed to work with substance mixtures with a density of up to 1.2 g/ml. Above this density or if total load is above the maximum weight the following steps should be taken:

- Reduce the fill level.
- Reduce the speed.

Use of Tubes and Consumables

Care should be taken to ensure that the tubes and bottles used in the centrifuge are:

- Rated to or above the selected rcf to be spun at
- They are being used at or above there minimum fill volume
- They are not being used above their design life (age or number of runs)
- They are inspected for damage

Refer to the manufacturers data sheets for further information.

Starting the Centrifuge Run

Press the START key on the control panel. The centrifuge accelerates to the pre-set speed with the time display active.

Imbalance Indicator

The centrifuge is fitted with an imbalance detector, to ensure safety. If an imbalance is detected at speeds higher than approx. 200 rpm an error message will be displayed. The run will terminate.

Imbalance at high speed may indicate a tube breakage or leak or rotor crash. Therefore, additional care should be taken depending on the samples loaded.

Stopping the Centrifuge Run

With Pre-Set Running Time

If the run time is preset, the centrifuge will run at the selected speed until the desired run time is reached. It will then automatically decelerate and stop. Once stopped, access to the chamber and rotor can be gained by pressing the OPEN key. If selected the door will open automatically.

You can also stop the centrifuging program manually at any time by pressing the STOP key.



Removing the Rotor

To remove the rotor, proceed as follows:

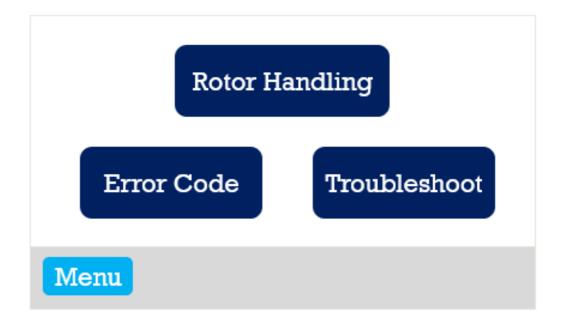
- 1. Open the centrifuge door.
- 2. Use the tool provided to loosen the nut on the spindle.
- 3. Remove the rotor by pulling upwards.





System Menu

To get into the system menu, press the Menu key on the display. Navigate through the system menu by pressing on the buttons.



Rotor Handling

Illustration on how rotor should be handled is displayed on the touchscreen.

Error Code

All error code and corresponding description will be displayed (or refer to page 29).

Troubleshoot

Provide diagnosis on possible causes and recommendations to resolve an error (or refer to page 28)





Maintenance and Care

Cleaning Intervals

For the sake of personal, environmental, and material protection, it is your duty to clean and if necessary, disinfect the centrifuge on a regular basis.

Maintenance	Recommended Interval
Rotor Chamber (Bowl)	Daily or when polluted
Rotor	Daily or when polluted
Accessories	Daily or when polluted
Filter Mat (Capacitor)	Every six weeks or when polluted
Cabinet	Once per month
Ventilation Holes	Every six months

Basics

- 1. Use warm water with a neutral detergent that is suitable for use with the materials. If in doubt contact the manufacturer of the cleaning agents.
- 2. Never use caustic cleaning agents such as soap suds, phosphoric acid, bleaching solutions or scrubbing powder.
- 3. Remove rotor and clean bowl with a small amount of cleaning agent, applied to a clean cloth.
- 4. Use a soft brush without metal bristles to remove stubborn residue. Afterwards rinse with a small amount of distilled water and remove any excess with absorbent towels.
- 5. Use only disinfectants with a pH of 6-8.

CAUTION:

- Not rated procedures or agents could deteriorate the materials of the centrifuge and lead to malfunction.
- Refrain from using any other cleaning or decontamination procedure than those recommended here, if you are not entirely sure that the intended procedure is safe for the equipment.
- Use only approved cleansers.
- If in doubt, contact Cleaver Scientific.



Rotor and Accessories Inspection

After thoroughly cleaning rotors, they should be inspected for damage, wear and corrosion.

Metal Parts

Ensure that the black protective coating is complete. It can be removed through wear and chemical attack and can lead to unseen corrosions. Any signs of corrosions, such as rust, the rotor or accessories should be immediately removed from service. Particular attention should be taken with the bottom of buckets on swing out rotors and tube cavities on fixed angle rotors.

Plastic Parts

Check for signs plastic crazing, fading, bruising or cracking.

CAUTION

- Do not run any rotor or accessories with sign of damage.
- Ensure that the rotor, buckets and accessories are within the service life and number of cycles.
- It is recommended that you have rotors and accessories inspected yearly as part of your routine service to ensure safety.

Cleaning

- 1. Clean rotor, buckets and accessories outside of the centrifuge bowl.
- 2. Separate all rotors, buckets, lids, adapters and tubes to allow thorough cleaning.
- 3. Rinse rotor and all accessories with warm water and a neutral detergent that is suitable for use with the materials. If in doubt contact the manufacturer of the cleaning agents. Ensure grease on rotor trunnions (pivot point for swinging buckets) is cleaned away.
- 4. Use a soft brush without metal bristles to remove stubborn residue.
- 5. Rinse rotor and all accessories with distilled water.
- 6. Allow rotor and accessories to fully drain and dry.
- 7. Once clean and dry, inspect the rotor and accessories.

CAUTION: Before using any cleaning methods except those recommended by the manufacturer, users should check with the manufacturer of the cleaning agents that the proposed method will not damage the equipment.



Shipping and Disposal

WARNING: When removing the centrifuge and accessories from use for disposal you must clean and if necessary, disinfect or decontaminate the entire system. In doubt contact the Cleaver Scientific technical support.

For the countries of the European Union the disposal is regulated by the European Union's Waste Electrical & Electronic Equipment (WEEE) Directive 2012/19/EU.





Troubleshooting

Mechanical Emergency Door Release

During a power failure, you will not be able to open the centrifuge door with the regular electric door release. A mechanical override is provided to allow sample recovery in the case of an emergency. This is only to be used in emergencies and after the rotor has come to a complete stop.

WARNING

- Spinning rotor can cause serious injuries when touched. In case of power outage, the rotor can still be spinning.
- Do not open the centrifuge before the rotor has stopped. Do not touch the spinning rotor. Do not attempt to break the rotor using hands or other tools.

Always wait until the rotor has come to a stop without braking. The brake does not work when there is no current. The braking process lasts much longer than usual.

Proceed as follows:

- 1. Make sure the rotor has stopped (view port in the centrifuge door).
- 2. Pull out the power supply plug.
- 3. Pull the release cord (on the left side of the housing is one black rubber plug which can be removed with a small flat screwdriver by just by hand. Once the plug is removed it will expose the release cord).



4. Pulling the release cord trigger the mechanical door release. The centrifuge door will open and the samples can be removed.

Troubleshooting Guide

If problems occur other than those listed in this table, the authorized technical support representative must be contacted.



General Errors	Causes	Actions
Display does not light up when the power is switched on	No power supply to the centrifuge	Check cable connections.
		Check there is power at socket.
	Blown fuse	Replace fuse.
Abnormal vibration during run	Rotor is off balance	Check the loading of the rotor and load the rotor symmetrically.
	Tube rupture	Visual inspection of tubes.
	Rotor is not tightened	Tighten the rotor nut by turning clockwise using the supplied rotor key.
	Swing-rotor buckets does not swing smoothly	Clean the pivots and grooves and apply grease.
	Damage shock absorber	Contact a service technician.
Centrifuge run cannot be started	Control system error	Switch the centrifuge off and on again. If the problem persists, contact a service technician.

Error Code

Error Code	Description
E01	Imbalance
E02	Overspeed



E03	Door open
E04	Door open during run
E05	Temperature sensor error
E06	Over temperature
E07	Motor stall
E08	Communication error
E09	System error
E10	Abnormal voltage
E11	Over current protection
E12	Motor fault
E13	Brake resistance
E15	Rotor error

When to contact technical support

If you need to contact technical support, please provide the order no. and the serial no. of your centrifuge. This information can be found on the nameplate at the left-hand side of the centrifuge. cable.

In addition, the technical support also needs the Software version. This information can be found on the bottom left of the screen when you power on the centrifuge.

Limited Warranty

Cleaver Scientific Ltd. warrants that this product will be free from defects in material and workmanship for a period of one (1) year from date of purchase. This warranty is valid only if the



product is used for its intended purpose and within the guidelines specified in the supplied instruction manual.

Should this product require service, contact Cleaver Scientific technical support department. All items returned for service should be sent postage prepaid in the original packaging or other suitable carton and padded to avoid damage. Cleaver Scientific will not be responsible for damage incurred by improper packaging. Cleaver Scientific may elect for onsite service for larger equipment.

This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces, or other causes not arising from defects in original material or workmanship. This warranty does not cover motor brushes, fuses, light bulbs, batteries, or damage to paint or finish. Claims for transit damage should be filed with the transportation carrier. All warranties including the implied warranty of merchantability and fitness for a particular purpose are limited in duration of 12 months from the original date of purchase.

Cleaver Scientific's sole obligation under this warranty is limited to the repair or replacement, at c Cleaver Scientific's discretion, of a defective product. Cleaver Scientific is not liable for incidental or consequential damage, commercial loss, or any other damages resulting from the use of this product.

No individual may accept for, or on behalf of Cleaver Scientific, any other obligation of liability, or extend the period of this warranty. For your reference, make a note of the model and serial number, date of purchase, and supplier here.

Model No.:
Serial No.:
Date Purchased:
Supplier:

Unit 41 Somers Road, Rugby, United Kingdom CV22 7DH Tel: +44 1788 565300 support@cleaverscientific.com





Pricing on any accessories shown can be found by keying the part number into the search box on our website. The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

www.wolflabs.co.uk

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Please contact us if this literature doesn't answer all your questions.