



PRODUCT USER MANUAL

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1. INTRODUCTION

This universal centrifuge is equipped with a maintenance free drive, a large display & simple interface for efficient operation for daily lab usage. The programmable centrifuge can deliver up to 15000 RPM and can accommodates different types of rotors. It features various programmable mode to save time & add convenience.

2. INTENDED USE

Centrifuge is used in laboratories to separate particles from liquid suspension according to their density. The different biological substances that are usually separated by centrifugation are cells, mammalian cells, organelles, etc. It is majorly used in laboratories

NOTE: Before using the instrument, please read this user manual carefully. This user manual is intended to assist with the operation and care of the unit only and not its repair. For repair please contact the supplier.

3. SALIENT FEATURES

Centrifuge has following features:

- Delivers up to 15000 RPM for all compatible rotors
- BLDC maintenance free motor drive
- Imbalance detection safety with auto cutoff feature
- Lid lock safety feature: Lid does not open during operation
- Program mode for customized operation
- Speed setting by RPM/RCF mode
- Countdown timer range from 30 sec to 999 mins 59 second & infinite mode
- · Last run memory feature
- Convenient and easy user interface
- Emergency lid release during power cutoff
- Automatic internal diagnosis & error display
- · Auto rotor detection feature

4. STANDARD ACCESSORIES

- Power Cord
- T Allen key
- User manual
- Warranty card

5. TECHNICAL SPECIFICATIONS

Motor Type	Brushless DC Motor
Max capacity	400 ml (4x 100 ml)

5. TECHNICAL SPECIFICATIONS

Speed Setting	Variable 500 - 15000 rpm (Step of 100 rpm)
Speed Accuracy	± 100 rpm
Run Time	30 sec to 999 mins 59 second & infinite mode
Min. Acceleration Time	60 seconds
Min. Deceleration Time	60 seconds
Noise Level	<65 dB
Ambient Temperature	5 - 40°C
Permissible Relative Moisture	<80%
Size (L x B x H)	705 X 585 X 330 mm
Weight	< 57 kgs without rotor
Input Power	230 VAC ± 10 VAC, 50Hz
Power Consumption	710 W
Safety Fuse	10 Amp

6. SAFETY PRECAUTIONS

• Never use the centrifuge in any manner not specified in this manual.

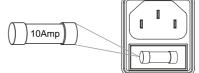


- Always use recommended original rotors and spare parts for best result & product safety.
- The rotors must be loaded symmetrically. Each tube should be counter balanced by another tube of same weight.
- Do not use centrifuge or rotor that have not been correctly installed or shows any sign of damage .
- The rotor must always be securely fastened. If the centrifuge makes unusual noise during operation, the rotor fitment needs to be checked. Switch OFF the device immediately by pressing STOP, check fitment & fasten it well.
- Never move the centrifuge during its operation.
- Prior to centrifugation, the tubes should be visually inspected for material damage.
 Damaged tubes must not be centrifuged. This is because broken tubes can result in sample loss and can create imbalance which can result in further damage to the centrifuge and accessories.
- Do not fill tubes while they are in the rotor. Liquids spillage may harm the device. If liquids are spilled on the rotor or rotor chamber, the centrifuge must be cleaned carefully and properly before being used again.
- Do not use liquid with density higher than 2.0 gm/ml during full load product operation.
- Centrifuge may be used for the specified applications only. It must not be operated in a hazardous or flammable environment and must not be used to centrifuge

6. SAFETY PRECAUTIONS

explosive or highly reactive substances. Also do not place the potential hazardous material within the clearance area/envelope.

- Equipment if used in any manner not specified in this manual or by the manufacturer can result in the lapse of the product warranty.
- Repairs must only be performed by authorized service technician.
- Do not lean on the equipment. It may damage the equipment or even harm the operator.
- In the event of contamination caused by aggressive agents, the rotor must be cleaned immediately using 70% IPA. This is particularly important for the bores of the tubes. If any damage is seen, contact the service technician.
- Before using cleaning or decontamination methods other than those mentioned by the manufacturer, contact the manufacturer to ensure that the intended method will not damage the centrifuge.
- For safety we have provided protective earthing with power supply. Make sure power supply is earthened.
- Safety Fuse is provided of 10Amp configuration which can be replace by the operator. The same will protect the machine circuit during an electrical fault or overload.



7. INSTALLATION

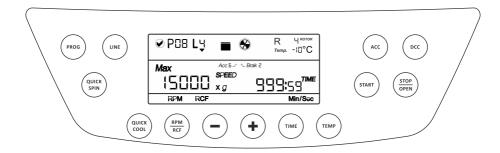
The Laboratory centrifuge is supplied in packaging box. Open the box, remove the packaging and gently place the centrifuge out of the box. Before 1st time usage, open the centrifuge & ensure to remove all packaging from the rotor chamber. Please keep all packaging in safe storage for at least 1 year for warranty purpose.

Location & Mounting

Place the centrifuge on a flat, solid and leveled surface and ensure that all the six feets of this centrifuge stand on the surface firmly. Avoid installing on slippery or surface prone to vibration.

- Ideal ambient temperature is 25°C ± 5°C, avoid placing the centrifuge in direct sunlight.
- Keep clearance of at least 30 cm from all side for ease of usage.
- Keep away from heat or water to avoid sample temperature issues or centrifuge failures.
- Do not place the centrifuge such that it becomes difficult to operate the device.

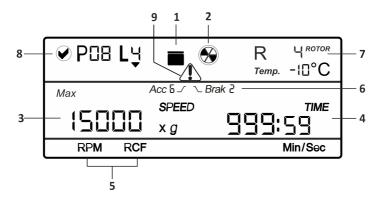
8. USER INTERFACE & DISPLAY



Item	Button Name	Function	
1	Single press, motor will start as per selected RPM, Time Start Temp if lid closed. Start button works only if lid closed. Motor start or stop, indicates with rotation symbol in L0		
2	Single press stop/open button, will stop motor as per set DCC rate if motor is running. Second press stop/ ope button, will open the lid once the motor stops. Also used for lid open if centrifuge motor is not running.		
3	RPM/RCF	Single press, Speed display will be blink to set. Long press, RPM/RCF will toggle between RPM to RCF. RPM , RCF mode is also indicated on LCD display.	
4	Single press, Minute can be set, another single press to second can be set. Timer can be set from 0 min 30 second properties of the second sec		
5	Use to set parameter (speed, time, temp, acc, brak, program, line) values. Pressing "+" button to increase and Pressing "-" button to decrease values.		
6	Acceleration	Single press, Acceleration will display as ACC1. ACC can be set between 1 to 9 using {+} and {-} button. The timers for Acc1-Acc9 is mention (page no. 7).	
6	Deceleration	Single press, Deceleration will on display as BRAK1. This can be set between 1 to 9 by using {+} and {-} buttons. The timers for BRAK1- BRAK9 is mention (page no. 7).	
7 Prog mode. Short press: to select Program number. it of		Long Press: to toggle between Normal mode and Program mode. Short press: to select Program number. it can be access only in program mode.	
8	Press line button to select line of any specific program 4 available lines in each program. it can be access on program mode.		

8. USER INTERFACE & DISPLAY

9	Temp. Press button to set the temperature from -10°C to 40°C.	
10	Quick cool Press for setting the centrifuge on quick/pre cool.	
11	Quick spin	To set short spin on a set speed. Press short spin continues press for short spin operation.



Item	Symbol	Description	
1		Indicates lid Status. Left image = lid close & Right image = lid open.	
2		Indicates centrifuge status. When centrifuge is running the symbol rotates and when centrifuge is not running the symbol is stable.	
3	15000 speed	RPM indicates the speed value at which centrifuge is running. x g indicates the value in RCF mode.	
4	TIME 999:59 Min/Sec	The timer is a countdown timer. Indicates the time for which the centrifuge will run. Indicates the time in Min/Sec mode.	
5	RPM/RCF	Indicate RPM or RCF mode and shows corresponding values.	
6	Acc 8 ∠ \ Brak 8	Indicates selection of Acceleration and deceleration rate.	
7	ROOB ROTOR	Indicates selected rotor.	
8	⊘ P05 L५	Indicates selected program number and the line number specific to that program.	
9	<u>.</u>	Warning Symbol! It appear when some error occur.	
10	-I□°C	Chamber temperature indication.	

9. ROTOR INSTALLATION

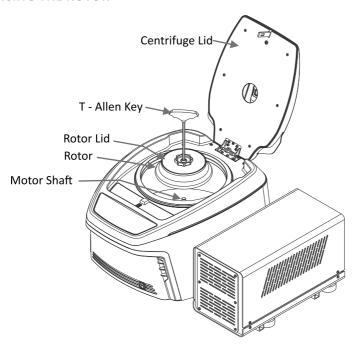
ROTOR REMOVAL AND REPLACEMENT PROCESS

If you want to remove or replace the rotor, follow the instructions below.

REMOVING THE ROTOR

- 1. Do not remove or loosen the rotor lid before attempting to remove the rotor.
- 2. Using the T Allen Key, loosen the rotor nut by turning it counter clockwise. Do not try to pull the rotor, the rotor will come up automatically.
- 3. Once the rotor nut is loosen completely, pull up the rotor vertically.

REPLACING THE ROTOR



- 1. To replace or install the rotor, take the rotor and load vertically onto the motor shaft.
- 2. Place the rotor nut in the center hole of the rotor onto the motor shaft.
- 3. Put T -Allen Key into the rotor nut and turn clockwise to tighten and counter clockwise to loosen the rotor.
- 4. After properly fastening the rotor, place the rotor lid on the rotor lid nut by hand and rotate the rotor lid nut clockwise.

 $\textbf{NOTE: 1)} \ Check the \ rotor \ is \ firmly \ tightened \ before \ running \ the \ next \ program.$

2) Do not remove or loosen the rotor lid before removing the rotor.

9. ROTOR INSTALLATION

BALANCING THE ROTOR (Below are the representational images of rotor)



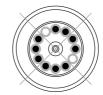




- Always balance the rotor before centrifugation. Above are examples of properly balanced rotors.
- 2. The samples in the tubes should be of equal volume.
- 3. If the tubes are not loaded correctly vibration or imbalance can occur which can cause serious damage to the centrifuge.
- 4. If the tubes are not loaded symmetrically then the imbalance detector will cut off the running centrifuge for device & user safety. This will stop the centrifuge and Err 55 will be seen indicating tubes are not loaded symmetrically. To resume operation, load tubes symmetrically & restart the centrifuge.
- 5. Incorrect method of loading tubes in centrifuge rotor:







10. OPERATING THE CENTRIFUGE

10.1 SWITCH ON THE CENTRIFUGE

After connecting the power cord. Switch ON the main power supply & then Switch on the power switch located on the front side of the instrument. Make sure to check the rotor fitment before use. Centrifuge will not operate with open lid.

NOTE: Maintain a gap of 3 seconds between switch OFF and switch ON again. DO NOT switch OFF and ON again instantly.

10.2 SPEED SETTING

Press "RPM/RCF" button to set speed from 500 to 15000 RPM. Single press to set speed, long press to toggle mode RPM/RCF. The parameter can be set when the speed

screen blinks by using "+" button for increment & "- "button for decrement. The values will automatically saves after screen stops blinking.

The speed can also be changed while the centrifuge is under operation. Press the "RPM / RCF" button & use "+/-" button to change speed. Changing the speed between the ongoing centrifugation will run the centrifuge at updated speed for the rest of time as indicated by the timer.

10.3 TIMER SETTING

Press the "Timer" button to set timer. Time can be set by "+" for increment & "-" for decrement. The timer will save automatically once the blinking stops. The timer can be set in minutes & seconds.

10.4 TEMPERATURE SETTING

Press "Temperature" button for setting the temperature from -10°C to 40 °C. The parameters can be set when the Temperature value blinks by pressing "+" button (for increasing the temperature) & "-" button (to reduce the temperature). The values will automatically saves after screen stops blinking. For quick cool, press the temp. key longer. Indication by this ** (cubic rotation) symbol.

10.5 QUICK COOL SETTING

Press "Quick Cool" Key, indicated by \$ (cubic rotation) on top right (Indication will be in dotted rotation in place of rotor digit indication). During quick cool operation RPM:-FIX 2000 & TEMP:-On set value. Press "START" button for centrifuge to start at FIX RPM & set TEMP. After reaching set TEMP, motor stops thus RPM becomes zero but compressor continues to keep the chamber temperature at the set value. The quick cool works for 1 hour only. (for indication of refrigeration running process, TEMP display will blink) IF time overs and TEMP does not reach to set value, TIME will switch-over from beginning.

NOTE: *Quick cool will not run If centrifuge is running. *Quick cool will not work in Programmable mode.

10.6 SHORT SPIN OPERATION

Short Spin Centrifugation is the feature for short/pulse run. It will run as long as the button is pressed. Set rotational speed prior to short spin as required. During short spin the timer will be in incremental mode. After releasing short spin button the time in the display will show duration of short spin.

10.7 SETTING ACCELERATION / DECELERATION RATE

This button will set the parameters of acceleration or deceleration of the rotor ramp. Press "ACC/DCC" button once to set the acceleration from 1-9 by using "+/-" button

for increment/decrement respectively. Similarly press once again the "ACC/DCC" button to set deceleration from 1-9 by using "+/-" button for increment/decrement respectively. The values of acceleration & deceleration timings are listed below.

ACCI	BRAK (180 Seconds
ACC5	BRAK 2	165 Seconds
ACC3	BRAK 3	150 Seconds
RCC4	BRAK 4	135 Seconds
RCC5	BRAK S	120 Seconds

ACC6	BRAK 6	105 Seconds
RCC7	BRAK 7	90 Seconds
ACC8	BRAK B	75 Seconds
RCC9	BRAK 9	60 Seconds

10.8 ROTOR SELECTION

This centrifuge is equipped with auto selection rotor technology. Fix the rotor on the shaft & follow the operation guideline.

Swing Out Rotors				
Rotor	Rotor No.	Max. Volume	Max. RPM	Max. RCF
UC-139	24	15 x 15 ml	4500	3305
UC-141	23	4 x 50 ml	4500	3305
UC-142	22	4 x 100 ml	4500	3305
UC-124	26	2 Micro plates	4500	2377
UC-140	25	32 x 6 ml	4500	3164
UC-156	21	4 x 100 ml (with lid)	4500	3164

Fixed Angle Rotors				
Rotor	Rotor No.	Max. Volume	Max. RPM	Max. RCF
UC-150	34	16 x 15 ml	6000	4910
UC-148	33	6 X 50 ml	6000	4910
UC-147	32	4 x 50 ml	6000	4750

Fixed Angle Rotors				
Rotor	Rotor No.	Max. Volume	Max. RPM	Max. RCF
UC-149	35	24 x 15 ml	6000	5070
UC-146	31	4 x 100 ml	6000	4628
UC-600	1	24 x 2 ml	15000	21420
UC-700	4	44 x 2 ml	15000	22388

UC-800	2	4 x 8 ml PCR	15000	15397
UC-900	3	8 x 5 ml	15000	18461

10.9 START AND STOP OPERATION

Press "START BUTTON" to start operation and press "STOP/OPEN BUTTON" to stop the ongoing operation. When the centrifuge is running the symbol " will rotate. Pressing the "STOP/OPEN BUTTON" will stop the operation. Once operation is stopped, press Button again to open the centrifuge lid. If the time gets over, centrifuge will stop automatically. When the centrifuge is not running the symbol " will be idle. To open the lid in non-operating stage, press the "STOP/OPEN BUTTON".

After completing run, before any another operation, it is mandatory to open the lid once before starting new operation. Centrifuge will not do 2^{nd} operation if lid is not opened and closed for at least one time after completion of 1^{st} operation.

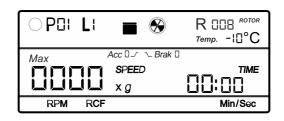
NOTE: It is mandatory to open the lid once after completion of operation for 2^{nd} operation. Centrifuge will not start if lid is not opened and closed after completion of a operation.

10.10 PROGRAM MODE

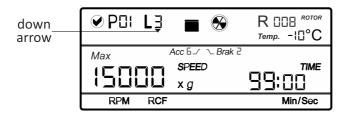
Long press "PROG" button to enter into program mode. Short press select program and press "+/-" button for increment & decrement to select desire program out of 99 available programs. User can select any program from 1 to 99 programs and can have user specific setting parameter for all programs. Each program has 4 lines indicated by L1, L2, L3, L4. Press "LINE" button to enter in line selection mode and press "+/-" button to select line out of 4 lines.

Every line of the program can have different values for all setting parameters. User can set and save different speed, different time, different temperature, different Acceleration and Deceleration rate for any line of program. Only Rotor will not remain save for any program. Rotor selection is not Program specific. Rotor selection is universal and it should be set before setting any other parameters.

On first time usage, all programs will have zero (0) values and once the "PROG" button is pressed below display will appear indicating selection of program mode.



As per above image, the circle O left of "P01 L1" is blank indicating no values in any line of specific program. Once any line of Program in filled or set, below change of display will appear.



The circle **②** left to "P01 L3" will have a tick mark indicating that any one line of the specific program is filled. If any line leading to selected line is set, then the arrow below the line number will appear.



If no leading line is filled or last line L4 is selected then the arrow below Line will not appear. It indicates there is no further operation left as leading lines of the specific program are empty.

Once a particular line of the program is selected set the parameters like speed time, temperature and acc/brak parameters as in normal case. It is recommended to select the rotor before selecting a program or even before setting any other parameters in program mode. Rotor selection is not program specific. Rotor number is not saved for any program and selected rotor remains active for all programs until new rotor number is not selected. Select the rotor, Press "PROG" button to enter in Program mode, select specific program using "+/-" button, Press "LINE" button to select specific line and set different parameter for that particular line of program. Values for any parameter gets save after 5 blinks. Once Program is set, press "START" button to start program.

After completion of any operation, it is mandatory to open the lid at least once for

another operation. Open the lid, close it again and press START for another operation.

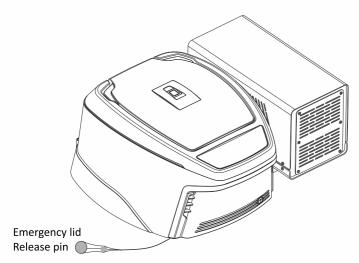
NOTE: 1) Rotor is not program specific. Selected rotor will be active for any new operation. 2) It is mandatory to open the lid once after completion of operation for 2^{nd} operation. Centrifuge will not start if lid is not opened and closed after completion of ongoing operation.

10.11 IMBALANCE DETECTION

The centrifuge is equipped with an imbalance detection safety feature. When the rotor is not loaded symmetrically, the imbalance detector gets activated and will cut off the centrifugation. The error "Err 55" will be shown on the display. First correct the imbalance load then switch OFF & switch it ON again. The values will be same as set before imbalance. The imbalance detection feature cannot be deactivated, as it is factory fitted.

10.12 OPENING CENTRIFUGE LID IN POWER FAILURE

Disconnect the centrifuge from the main power supply. Wait until the rotor has come to a standstill (this may take longer time). Once the rotor has stopped, then pull the lid release thread located at the bottom left (to your right) of the machine This will open the centrifuge lid.



NOTE: This method of opening the lid should be used only in case of Emergency or power failure.

11. MAINTENANCE AND CLEANING

- The rotor and the outside of the centrifuge should be cleaned regularly with a mild wet (with water) cloth.
- Ensure that while cleaning the unit is not plugging in.

11. MAINTENANCE AND CLEANING

- Wear protective glove & safety glass while operating & cleaning the device.
- The brushless motor in the centrifuge requires no routine maintenance. Any required service should be performed by authorized, qualified personnel only.
 Repairs performed by unauthorized personnel may void the warranty.
- Always keep the centrifuge housing, rotor chamber and rotor clean. All parts should
 be wiped down periodically with a soft cloth. For more thorough cleaning, use a
 neutral cleaning agent (Ph between 6 and 8) and clean with a soft cloth. Exclusive
 amounts of liquid should be avoided.

NOTE: Liquid should not come into contact with the motor.

- After cleaning, ensure that all parts are dry before re-use.
- Regularly cleaning of the rotor is important.
- If the rotor chamber needs cleaning, clean with cloth or sponge moistened with a neutral detergent solution.
- Do not place the rotor into the cleaning solution.
- If corrosive, toxic or pathogenic bacteria are accidentally spilled in the rotor or rotor chamber the centrifuge must be decontaminated throughly.

12. TROUBLESHOOTING

This centrifuge has a self – diagnostic function. If a problem occurs, an error/warning code will be displayed on the display screen and the operator can determine the malfunction with the warning code below.

ERROR	PROBLEM	SOLUTION
No display	No main power connection	Power check & proper plug-in of mains cable at both ends
	Power failure	Check the mains fuse of the lab
	Improper connection	Connect adaptor properly
	Lid not closed correctly	Close lid correctly
	Error with lid closing and opening mechanism	Contact service
Err 55	Rotor not loaded symmetrically	Load rotor symmetrically & restart centrifuge
Centrifuge lid cannot be opened	Rotor is still spinning	Wait for the rotor to come to a stop
	Power failure	Emergency lid release after rotor stops

12. TROUBLESHOOTING

Centrifuge shakes	Rotor not loaded symmetrically	Load rotor symmetrically & restart operation
during acceleration & exceptional running noise	Either a broken tube, damage to the rotor or motor is cause for run noise	Replace broken tube. For damaged rotor/motor contact service representative
	Rotor damaged	Remove & change rotor
Display error	Loose connection of display	Contact service representative
Err 1	Latch motor damaged, Latch jammed or any Limit switch of latch got damaged	Contact service representative
Err 52	Motor Stuck or incorrect operating voltage	Turn OFF the centrifuge, Check rotor fitment or apply correct 230VAC ± 10VAC operating voltage
Power tripping	Cable not fit properly	Remove cable and connect properly
Last run memory not displayed	Turing ON centrifuge immediately after turning it OFF	Maintain 3 seconds gap Between switch OFF and switching ON again
System gets hang	Electronics error	Switch off centrifuge and then switch it ON again If the error still shows, contact service representative
Error 41	Selected Temp value not rechable for selected set speed	Set temperature value will be taken automatically that it can be archived after 1 hour, Error indication will be displayed every 15 second
Error 42	Temperature is out of control	Error indication will be displayed every 15 second If it persist in every operation consistently, contact service representative

12. TROUBLESHOOTING

Error 43	Over Temperature inside chamber	Turn off the centrifuge and wait until temperature goes down
Error 44	Temperature sensor failure	contact service representative

IMPORTANT NOTE:

- If system get hangs or gets heated due to over current, switch OFF & switch ON (restart) the centrifuge and check it again.
- Maintain 3 seconds gap between switch OFF and switch ON. Instant ON-OFF can lead to a reset, erasing last run memory.
- If motor gets hot due to which there will be fluctuation in speed value then allow centrifuge to get cool for at least 30 minutes. Do not do any operation for 30 minutes.

13. WARRANTY STATEMENT

This product is warranted to be free from defects in material and workmanship for a period of one (1) year from date of purchase. Your product will be duly repaired upon prompt notification in compliance with the following conditions:

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in this instruction manual. 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 any incidental or consequential damages, commercial loss or any other damages from the use of this product.

The warranty is invalidated by any non-factory modification, which will immediately terminate all liabilities on us for the products or damages caused by its use. The buyer and its customer shall be responsible for the product or use of products as well as any supervision required for safety. If requested the products must be returned to the distributor in well packed and insured manner and all shipping charges must be paid.

Some states do not allow limitation on the length of implied warranties or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights. This warranty is given expressly in lieu of all other warranties, expressed or implied.

The purchaser agrees that there is no warranty of merchantability or of fitness for any intended purpose and that there are no other remedies or warranties, expressed or implied, which extend beyond the description on the face of the agreement. This

13. WARRANTY STATEMENT

warranty is only applicable to the original purchaser.

Products received without proper authorization will not be entertained. All items returned for service should be sent postage prepaid in the original packaging or other suitable carton, padded to avoid damage. We will not be responsible for damage incurred by improper packaging.

All items returned for service should be set postage prepaid in the original packaging or other suitable carton, added to avoid damage.

This warranty is valid only if the warranty is registered with the supplier within 30 days from the date of purchase. In case the product is to be disposed of, the relevant legal regulations are to be observed.

For you reference, make a note of serial number, date of purchase and supplier		
here.		
Serial No.:	Purchase Date:	
Supplier:		

14. PRODUCT DISPOSAL

Information on the disposal of electrical and electronic devices in the European Community

The disposal of electrical devices is regulated within the European Community by national regulations based on EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). According to these regulations, any devices supplied after 13.06.05 in the business to business sphere, to which this product is assigned, may no longer be disposed off in municipal or domestic waste. They are marked with the following symbol to indicate this.

As disposal regulations within the EU may vary from country to country please contact your supplier if necessary.

15. TRANSPORTATION & STORAGE

This devices is heavy & weighs approximately 57kgs. Care must be taken while lifting up. Always take few people help to lift this instrument. The refrigerated centrifuge must be kept always in upright position while storing/transporting from place to place.

- Use only original packaging during transportation
- For longer distance take transportation aid like hard trucks
- Avoid knocking, harsh shaking or jolting the device

15. TRANSPORTATION & STORAGE

- Always retain the packaging material & transportation protections for longer storage or transportation
- The transportation conditions for the instrument is -25°C to 60°C with a Relative Humidity up to 80% & max pressure of 106kPa for both general & air transportation
- For storage the instrument is recommended to be stored in original package. the instrument is -5°C to 45°C with a Relative Humidity up to 70% & max pressure of 106kPa

Borosil Limited

1101, Crescenzo, G-Block, Opposite MCA Club, Bandra Kurla Complex Bandra (East), Mumbai - 400 051. India

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