USER MANUAL

PRF DUO

Clinical Centrifuge













Before using centrifuge, please carefully read this user manual for efficient operation and safety.



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We cannot be responsible to information in real-time if the outline and specifications of the centrifuge are subject to change for improvement.

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Safety Reminder

Common safety precautions

Carefully read the following safety precautions for a thorough understanding.

- Follow the instructions and procedures described in this manual to operate this centrifuge safely.
- carefully read all safety messages in this manual and the safety instructions on the centrifuge.
- Safety messages are labeled as indicated below. They are in combination with signal words of

"WARNING" and "CAUTION" with the safety alert symbol (1) to call your attention to items or operations that could be dangerous to you or other persons using this centrifuge. The definitions of Signal words are as follows:



WARNING: Personal Danger

Warning notes indicates any condition or practice, which if not strictly observed, could result in personal injury or possible death.



CAUTION: Possible damage to centrifuge

Caution notes indicates any condition or practice, which if not strictly observed or remedied, could result in damage or destruction of the centrifuge.

NOTE: Notes indicates an area or subject of special merit, emphasizing either the product's capability or common errors in operation or maintenance.

- do not operate the centrifuge in any manner not described in this User Manual. When in doubt or have any troubles with this centrifuge, ASK FOR HELP.
- the precautions described in this User Manual are carefully developed in an attempt to cover all the
 possible risks. However, it is also important that you are alert for unexpected incidents. Be careful
 operating this centrifuge.



WARNING

- This centrifuge is not explosion-proof. Never use explosive or flammable samples.
- Do not install the centrifuge in or near places where inflammable gases are generated or chemicals are stored.

- Do not place dangerous materials within 30cm of the centrifuge.
- Prepare all necessary safety measures before using samples that are toxic, radioactive or contaminated with pathogenic micro-organisms. Use of these is at your own responsibility.
- If the centrifuge, rotor and accessories that have been contaminated by solutions with toxic, radioactive or pathogenic materials, clean it according to the decontamination procedure as specified.
- If you require service at site, please sterilize and decontaminate the centrifuge in advance, and then notify the service center the details of the materials and procedure.
- To avoid electrical shocks, insure hands are dry before handling the power cord or turning on/off the power switch.
- For safety purposes, do not enter within 30cmaround this centrifuge when it is in operation.
- While the rotor is rotating, never release the door lock.
- Unauthorized repairs, disassembly, or modifying the centrifuge except by our service center are strictly prohibited.

(CAUTION

- This centrifuge must be located on a firm and level table.
- Make sure the centrifuge is horizontal before running.
- Do not move or relocate the centrifuge when it is running.
- If fluid spills in the rotor chamber, please promptly clean and dry with a dry cloth to avoid sample contamination.
- Ensure to remove any objects and fragments of the tubes dropped inside the rotor chamber before running the centrifuge.
- Cautions with rotor (1) Always check for corrosion and damage on the rotor surface before using it. Do not use the rotor if an abnormality is found. (2) Do not set the speed beyond the allowable minimum speed of the rotor kits (rotor and adapters). Make sure to run it below the allowable maximum speed. (3)Do not exceed the allowable imbalance.

(4)Use the rotor and tubes within their actual capacities.

- If any abnormal condition occurs during operation, please stop it immediately and contact our service center. Notify the service center is a warning code if displayed.
- Vibrations are likely to damage the centrifuge, contact our service center if abnormality observed.

1. Intended use

This device is a medical product (laboratory centrifuge) within the context of the IVD Directive 98/79/EC. The centrifuge is used for the centrifugal separation of human blood or urine samples in the rotor in accordance with EN ISO12772. Operator should be trained before using the centrifuge. Detailed operation, please refer to the **User Manual below.**

2. Specifications

Maximum speed	4500 rpm (300 – 4500 rpm), increme	ent:100 rpm		
Maximum RCF	$2490 \times g$, increment: $100 \times g$			
Maximum capacity	10 ml × 12, 15ml × 8			
Timer	30 seconds – 99 minutes - HOLD, c	ontinuous operation		
Noise	56 dB (A)			
Driving Motor	Brushless DC motor			
Safety devices	Door interlock, Over-speed detector	, Automatic internal diagnosis		
Power requirements	Single-phase, 110V - 240V, 50Hz/60	Single-phase, 110V - 240V, 50Hz/60Hz, 3A.		
Ambient condition				
-Set-up site	Indoor only			
-Altitude	Up to 2000 m above sea level			
-Ambient temperature	2 ~ 40℃			
-Humidity	80%			
-Excess-voltage category	п			
-Pollution degree	2			
Device protection class	I			
EMC				
-Emitted interference,	EN/IEC61326-1	FCC Class A		
Interference immunity	Class A			
Dimensions (mm)	(L) $280 \times (W) 364 \times (H) 266$			
Weight	6kg			
Additional features	Speed/RCF switch, Short-time run function, sound-alert function			

3. Declaration of Conformity

Construction in accordance with the following safety standards:

EN61010-1

EN61010-2-020

EN61010-2-101

Construction in accordance with the following EMC standards:

EN61326-1/FCC Part 15 Sub part B/ IECS 001

EN61326-2-6:2006

Associated EU guidelines:

EMC directive: 2004/108/EC LVD directive: 2006/95/EC IVD directive: 98/79/EC

This ISM device complies with Canadian ICES-001.

Cet appareil ISM est conforme à la norme NMB-001 du Canada.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his expense.

4. Required Operational Conditions

4.1 Basic operational conditions

(1) Power: 110V-240V, 50Hz/60Hz, 3A.

(2) Ambient temperature: 2° C ~ 40° C.

(3) Relative humidity: $\leq 80\%$.

(4) No vibration and air flow around.

(5) No electric dust, explosive and corrosive gases around.

4.2Transport and storage conditions

(1) Storage temperature: -40° C ~ 55° C.

(2) Relative humidity: $\leq 93\%$.

5. Installation

This section describes the instructions that you should abide when install the centrifuge to ensure your safety and the optimum performance. Before moving the centrifuge, the rotor must be removed.

⚠ WARNING

- Improper power supply may damage the centrifuge.
- Make sure the power source conforms to the required power supply before connecting.

5.1 Location

- (1) Place this centrifuge on a firm, flat and level surface, ensure the four feet of this centrifuge stand on the counter firmly. Avoid installing on a slippery surface or surface prone to vibration.
- (2) Ideal ambient temperature is 20°C $\pm 5^{\circ}\text{C}$, avoid placing the centrifuge indirect sunlight if temperature exceeds 30°C .
- (3) Keep clear of the centrifuge at least 10 cm on both sides and at least 30 cm behind it to guarantee the cooling efficiency.
- (4) Keep away from heater water to avoid sample temperature issues or centrifuge failures.

5.2 Connection of the power cord and grounding

WARNING

- To avoid electrical shocks, ensure your hands are dry when touching the power cord.
- This centrifuge must be grounded properly.

A minimum 10 A outlet providing a sufficient ground is required, and this must meet local safety requirements.

6. Structure

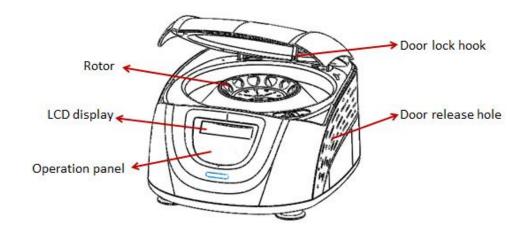


Figure 6-1 Front view of the centrifuge

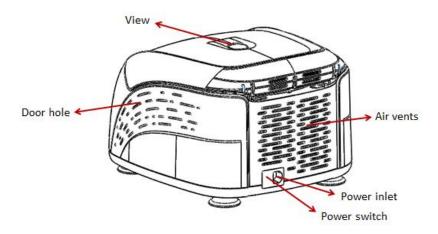


Figure 6-2 Rear view of the centrifuge

7. Operation Panel



Figure 7-1 Operation panel

Item	Symbol	Name	Function
1	Select	Select button	Press the button to choose the program which you want to modify.
2	Pulse	Pulse button	The speed can be accelerated and held at the speed when pressing Pulse on.
3	Door	Open/ lock button	Press the button to open the door The button is not available when the centrifuge is running.
4	Run/stop	Start/Stop button	Press the button to start running. The centrifuge will brake to stop running if pressed during centrifugation.
5		Parameter button	Clockwise rotate to increase program values. Rotate Counter-clockwise to decrease parameter values. Press the button, shift between speed and RCF display.
6	Push to select RF M	Push to select	Press the button to select different programs
7	A-PRF+	A-PRF+	1300 rpm, 8min
8	i-PRF	I-PRF	700 rpm, 3min
9	i-PRFM	I-PRF M	700 rpm, 4min
10	•i-PRF+	I-PRF+	700 rpm, 5min
11	A-PRF Liquid	A-PRF Liquid	1300 rpm, 5min
12	PRF(L)	PRF(L)	2300 rpm, 12min

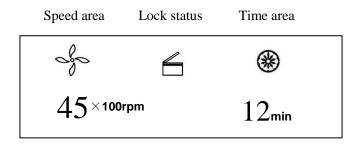


Figure 7-2 Main interface

Main interface is as figure 7-2. The speed is set to be 4500 rpm, the door lock is released and the running

time is 12 minutes. When speed symbol is rotating, this indicates the centrifuge is running. If the rotation is faster, the speed is higher. Temperature of chamber is displayed and cannot be controlled. Time symbol displays the ratio of working to time setting. The total time setting is divided into 10 sections.

8. Rotor Preparation

- 8.1 Prepare the samples
- 8.2 Inject the samples into tubes

A CAUTION

- Do not overload samples into the centrifuge which will cause leaking.
- Do not exceed the actual capacity allowed in the user manual.

8.3 Keep the tubes balanced

- Although the centrifuge can accept sample balancing by eye, we recommend that you keep this
 centrifuge in a well-balanced condition to extend its life expectancy.
- Never intentionally run the centrifuge under an unbalanced condition even though the allowable imbalance is not exceeded.

8.4 Inspect the rotor

Check the rotor for corrosion or scratches before using.

⚠ CAUTION

- If any abnormality such as corrosion or scratches are found, stop using the rotor and contact our service center.
- Only manufacturer's rotors must be used with the unit.

8.5 Symmetrically load centrifuge tubes into rotor

A CAUTION

- Make sure the rotor lid is securely fixed on the rotor, as well as the rotor and shaft are tightened.
 Otherwise, the rotor maybe moved off while rotating and cause damage to the centrifuge and rotor.
- Firmly tighten the rotor lid to the rotor.

9. Operation

A CAUTION

- Do not push or lean against the centrifuge while it is running.
- Do not run the centrifuge when fragments or sample solutions are left in the centrifuge chamber.
 Always keep the centrifugal chamber clean.
- If the centrifuge makes strange noise during operation, stop it immediately and contact our service center. Notify them of the warning code if displayed.

9.1 Normal operation

Turn on the power switch, centrifuge will display the running interface last time after passing the self-diagnostic checks, see figure 9-1 below:

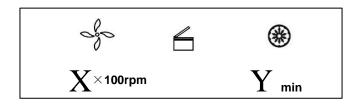


Figure 9-1the last running interface

- Speed: X rpm. Running time: Y minutes.
- The door lock is released.

1) Set the operation programs

Press the select required program. The parameter can be modified when the program is flashing. Rotate the program button clockwise to increase parameter value. Rotate the program button counter-clockwise to decrease parameter value. Rotate the program button faster, and the parameter value will increase faster. The minimum speed increment is 100 rpm, the minimum time increment is 1 second.

(1) Set the speed

- Press the select button until the speed rpm is displayed.
- When the speed button is selected, the speed symbol will flash the speed value.
- The minimum speed value you can set 500 rpm, the minimum increment is 100 rpm.
- Rotate program button clockwise to increase speed value. Rotate the program button counterclockwise to decrease speed value.
- You can speed up set the speed value by rotating program button quickly.
- There is a circulating function to increase/decrease the speed values. Rotate the program button clockwise ○to change settings from small→large→maximum→minimum. Rotate the program button counter-clockwise ○to change settings from large → small→ minimum→ maximum.

(2) Set the time

- Press select button setting mode.
- Rotate the program button to set running time from 30 seconds to 99 minutes.
- When the time displays HD, this is a continuous running mode.

2) Start the operation

- (1) Press button (570) to start running
- The door must be locked before rotor starts spinning.
- The timer will start once the rotor starts spinning, the screen displays the remaining run time.

- (2) View and modify the operation programs
- Operation programs can be modified after the centrifuge reaches the set speed.
- Pressing the select button, returns the display to the program interface and displays setting programs.

Press the select button to the desired program. When flashing, rotate parameter button to modify values. Release the button after 5 seconds, and the centrifuge will return to normal operation mode and run according to the new value.

- If the set time value has been modified, the operation time is not affected and will continue.
- (3) Warning display
- If an error occurs during the operation, the centrifuge will brake to stop automatically, and display the error code on the time/display area. The error code can be checked in the table11 1, and corrective actions can be applied accordingly.

3) End the operation

- (1) The centrifuge will break when it reaches the set time or button is pressed.
- When the rotor stops rotating, the centrifuge will start beeping to alert the operation has finished.
 - (2) Open the door
- The door can be released automatically when the operation has stopped.
- With the door closed, you are able to press the button to open it.
- After ending the operation, the program will store the setting parameters of this operation, and will
 recall these parameters when restarting the program.
- (3) Open the door and take out the rotor and samples.

9.2 Cooperation

- (1) Turn on the power switch
- (2) Set a RCF (Relative Centrifugal Force) value

A CAUTION

- Do not exceed the allowable maximum RCF value of the rotor and adapters.
- Press the select button select and choose speed unit ×g, the speed symbol will flash into RCF value input status.
- If no button is pressed after the speed value has flashed after 5 seconds, the input mode will be shutdown.
- Rotate program button to input a RCF value, RCF increment is 10 ×g.
 - (3) Setoperating conditions

The other operation, please refer to the section 8.1.

9.3 Pulse operation

This function is used to remove the residual samples adhered to the interior of the tubes or for quick spins.

Note: The button works only while the rotor stopped and the door is locked.

- (1) Turn on the power switch and load the rotor to the shaft, tighten the rotor lid and make sure it is in secured position, and then close the door.
- (2) The centrifuge goes into preparation mode and displays last running values.
- (3) Press PULSE and hold, the centrifuge will speed up to the setting speed. While releasing the knob during acceleration, the centrifuge will start to decelerate and stop.

9.4 Fast operation

Press the push button to select different programs then press button to start run.

A-PRF+	1300 rpm, 8min
I-PRF	700 rpm, 3min
I-PRF M	700 rpm, 4min
I-PRF+	700 rpm, 5min
A-PRF	1200 5
Liquid	1300 rpm, 5min
PRF(L)	2300 rpm, 12min

These settings are pre-registered you do not need to set the values.

9.5 Program modification operation:

If you need to set another program values please follow the instructions below:

- 1. Select the program that you want to modify by pressing the "push button". The corresponding LED will lights.
- 2. Press the SELECT button until the speed RPM is displayed, the speed symbol will flash then you can change the value by rotating the program button clockwise to increase speed value or counterclockwise to decrease speed value.
- 3. Press the SELECT button again to set the time. Follow the same procedure as above to change the time value.
- 4. Press the push button for 7 seconds. Then a symbol appears next to the value RPM. The new setting is then memorized.

The new program is configured.

10. Maintenance

10.1 Cleaning

\triangle CAUTION

 If do not follow the recommended instructions for cleaning or disinfecting this may damage the centrifuge.

(1) Centrifuge

- If the centrifuge is exposed to ultraviolet rays for a longtime, the color of the door may be changed or
 the label may be peeled-off. After using, cover the centrifuge with a piece of cloth to protect it from
 direct exposure.
- If the centrifuge needs cleaning, clean it with a cloth or sponge moistened with a neutral detergent solution.
- Sterilize the centrifuge by wiping with a cloth moistened with 70% ethanol solution.
 - (2) Rotor chamber

A CAUTION

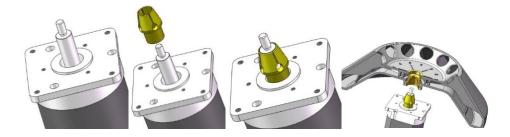
- Do not directly pour water, neutral detergent or disinfectant solution into the rotor chamber, otherwise fluids may leak into the drive units and cause corrosion or deterioration to the bearings.
- If the rotor needs cleaning, clean with cloth or sponge moistened with a neutral detergent solution. Sterilize the centrifuge by wiping with a cloth moistened with 70% ethanol solution.

(3) Drive shaft

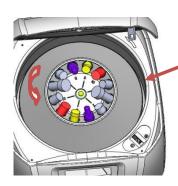
- We recommend regular maintenance for drive shaft. You can wipe the driveshaft with soft cloth, and then apply thin coat of silicon grease.
- (4) Door
- Clean and sterilize the door using the same method as the section (1) above.
 - (5) Rotor
- To prevent corrosion, remove the rotor from rotor chamber. If not in use for a long term, then detach the rotor lid and turn upside down to dry the tube holes and keep clean.
- For sample leaks in the rotor, rinse the rotor with water. Apply a thin coat of silicon grease to the rotor when it is completely dry.
- The rotor should be checked every 3 months to ensure the tube and rotor holes keep are clean and apply thin coat of silicon grease.

10.2 Rotor Installation

(1) Installation



(2) Adjustment



Observe here!

Before locking the rotor, rotate it, and observe carefully if there is obvious vibration, if so, please takeoff the rotor, turn some angle and install it again, until the rotor rotates smoothly, then, lock it firmly.

11. Trouble shooting

11.1Possible problems and solutions

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

Symptom			Causes	Solutions
Nothing appears on the screen when the POWER is turned on. Abnormal vibration		R is turned on.	 Building power circuit breaker trips. Rotor do not match with spindle Samples are imbalance 	 Remove the trouble and turn on the POWER. Install again the rotor Weighting scales, install symmetrically
disp	Alarm code appeared or the	E-02 Door fault	The door opened in running. The button is pressed while the door opening.	• Close the door immediately. • Close the door, and then start to operate.
		E-06 Set wrong speed	• The setting speed exceeds the allowable range.	Modify the speed value.
	time	E-10~86	Read the service manual	Contact with service center

Table 11-1 Possible problems and solutions

 Alarm codes E-1~E9 are related to incorrect operation/programming. You can continue running the centrifuge after implementing corrective procedures.

11.2 How to open the door

1) In the case of power on

riangle CAUTION

- The door just can be opened while the power is on and rotor stops rotating.
- (1) Turn on the power switch, release the door automatically.
- (2) The door will be released automatically once the operation is finished.
- (3) It is available to release the door by press button once the rotor stops.

2) In the case of power outage

The door cannot be opened automatically if there is a power outage. It is available to be opened manually as follows.

- (1) Ensure if the rotor has stopped rotating.
- Listen carefully to ensure no rotating sound can be heard.
 - (2) Insert a screw driver into the hole to open door.
- Holes are located on the left and right sides of the unit.
- Insert a screwdriver into the two holes and push forward to release the door.

12. Instructions for the rotor and tubes

A CAUTION

- Read the instructions thoroughly, to properly load and use rotor.
- Do not exceed the allowable maximum speed of rotor tube and adapters etc. Ensure the allowable maximum speed of adapters is lower than the rotor's maximum speed.

12.1Rotor instructions

1) Rotor structure

1) Rotor structure mat adapter rubber cap Rotor body mat Spindle hole

Figure 12-1 The rotor structure

2) Available rotors and adapters

Rotor type	Tubes	Tubes Per Rotor	Dimension (Φ×L mm)	Adapters	Maximum speed (rpm)	Radius cm	Maximum RCF (×g)
	15 ml con	8	17×120		4500	11	2490
A12-10P	1.5-5 ml vacu	12	13×82	A10P15 mat	4500	9.8	2218
	4-7 ml vacu	12	13×106	A10P15	4500	11	2490
			16×75	A10P15 Mat		9.8	2218
	8.5-10 ml vacu	12	16×107	A10P15	4500	11	2490
	2.7-3 (EU) ml collection tube	12	11×66	A10P15 mat	4500	9.8	2218
	7.5-8.2 (EU) ml collection tube	12	15×92	A10P15	4500	11	2490

Table 12-1 Rotors and adapters

3) Notice

• The centrifuge rotor can separate samples with a density lower than 2.0 g/ml. If the samples density is over 2.0 g/ml, please calculate allowable speed depending on the following formula.

Allow speed(rpm)=
$$\max \text{ speed} \times \sqrt{\frac{2.0(g/ml)}{\text{Sample density}(g/ml)}}$$

4) Autoclaving

A12-10 P rotor is made of plastic, cannot be high-pressure sterilization and UV irradiation, only ordinary sterilization can be used.

12.2 Tubes

1) Cleaning and sterilizing tubes

	Applicable I	napplica	able	
Conditi	ons Materials	PA	PC	PP
Cleaning	Acidic (pH5 or lower)	X	X	X
	Acidic (higher thanpH5)	О	0	0
	Alkaline (higher than pH9)	О	X	О

	Cleaning fluids	Alkaline (pH9or lower)	О	О	О
	Neutral (pH7)		О	О	О
		Warm water(up to 70° C)	О	О	О
	Ultrasonic cleaning	Neutraldetergent (pH7)	О	О	О
Ste		115°C (0.7kg/cm ²) 30minutes	О	О	О
	Autoclaving	121°C (1.0kg/cm ²) 20minutes	X	О	О
		126°C (1.4kg/cm ²) 15minutes	X	X	X
Sterilization	Boiling	15 to 30 minutes	О	О	О
tion	Ultraviolet sterilization	200-300nm	X	X	X
	Gas sterilization	Ethylene oxide	О	X	О
		Formaldehyde	О	О	О

PA: Polyallomer PC: Polycarbonate PP: Polypropylene

Table 12-2 Cleaning and sterilizing conditions for tubes

2) Cleaning PC tubes

PC material is low in chemical resistance against alkaline solutions. Avoid using neutral detergents with pH higher than 9. Note that pH of some neutral detergents are still higher than 9 even if diluted according to the manufacturer's instructions. Use detergent with its pH between 7 and 9.

3) Autoclaving PA, PC and PP tubes

PA begins softening at about $120\,^{\circ}$ C, PC and PP at about $130\,^{\circ}$ C. Autoclave PA tubes at $115\,^{\circ}$ C (0.7kg/cm^2) for 30 minutes, PC and PP tubes at $121\,^{\circ}$ C (0.1kg/cm^2) for 20 minutes. If a certain temperature is exceeded, the tubes maybe deformed.

When use a sterilizing chamber, please operate as follows:

- (1)Place tubes in vertical position, mouths upward. If tubes are placed sideways, they may deform to an oval shape due to gravity.
- (2)Remove locking nut and lid to prevent from deformation or rupture.
- (3) Wait until the sterilizing chamber cools down to the room temperature before removing tubes.

4) Conditions and life expectancy of tubes

The life expectancy of plastic tubes depends on the characteristics of samples, speed of the rotor used, temperature applied and soon. When the plastic tubes are used for ordinary aqueous samples (pH between 5.0 and 9.0), their life expectancies are defined as follows.

Be operated at the maximum speed:

High quality tubes (PA, PC, PP): 30-50 operations

Ordinary tubes (PA、PC、PP): around 10 operations using in low speed can extend the tube life). Life expectancy of tubes also depends on the pre-treatment conditions such as cleaning and sterilization, lifetime can be cut down.

Notice: Do not use damaged or cracked tubes.

13. Calculate RCF

An RCF can be determined with the following calculation formula.

 $RCF = 1.118 \times r \times n^2 \times 10^{-5}$

r — rotating radius, unit: cm; n — rotating speed, unit: rpm

14.Returning and Disposal

14.1 Returning Devices

Before returning the device, a transport securing device has to be installed.

If the device or its accessories are returned back, in order to provide protection for people, the environment and materials, it has to be decontaminated and cleaned before being shipped.

14.2 Disposal

Before disposal, the device must be decontaminated and cleaned to protect people, the environment and property. When you are disposing of the device, the respective statutory rules must be observed.

Pursuant to guideline2002/96/EC (WEEE), all devices supplied after August13, 2005 may not be disposed as part of domestic waste. The device belongs to group 8 (medical devices) and is categorized in the business-to-business field.

The icon of the crossed-out trash can shows that the device may not be disposed as part of domestic waste. The waste disposal guidelines of the individual EC countries might vary. If necessary, contact your supplier. 15. Warranty

16.1 Warranty of centrifuge

This centrifuge is guaranteed for two years from the date of delivery provided that it has been operated and

maintained properly.

16.2 Warranty of the rotor

The rotor is guaranteed for 5 years from the date of delivery upon manufacturer. Please pay attention, does

not use the rotor once it has been corrosion or fatigue damage. The warranties of the centrifuge and the

rotor become invalid in the case of the following conditions even if within the guarantee period expires:

(1) Failures caused by incorrect installation.

(2) Failures caused by rough or improper handling.

(3) Failures caused by conveyance or relocation after installation.

(4) Failures caused by unauthorized disassembly or modification.

(5) Failures caused by using non-standards parts or accessories and unauthorized modification of the

rotor or centrifuge.

(6) Failures caused by natural disasters including fire, earthquakes and so on.

(7) Consumables and parts have a limited guarantee period.

After-sales service

In order to ensure to operate centrifuge safely and efficiently, it is necessary for regular maintenance. If

centrifuge has problems, do not attempt to repair it by yourself. Contact our sales or service center.

Process for PRF SARL

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