StatSpin® Express 4 HIGH SPEED HORIZONTAL CENTRIFUGE

ACHIEVE GEL SEPARATION IN ONLY 3 MINUTES

The StatSpin Express 4 high speed horizontal centrifuge provides faster turnaround time and greater productivity for your "lean" laboratory. Place it next to any STAT analyzer and serum or plasma gel tubes are ready in just minutes.

With only 3 settings it is simple to use. Just select the 3, 5 or 10 minute button and press start. No fumbling with settings or the need to readjust the speed. For safety, the lid remains locked until the rotor comes to a complete stop. An audible alarm sounds when the cycle is completed.

Samples can be processed as they arrive in the lab; no need for batching, no unproductive time spent waiting for the centrifuge...you'll have results in minutes. Now you can process as many as 8 samples at once for higher throughput.



Horizontal spin provides a flat gel barrier



Gel tubes are separated in just 3 minutes

StatSpin Express 4 is Ideal for:

- Rapid separation of gel tubes
- Flat gel barrier
- Sample prep for STAT chemistry
- Single piece flow for rapid sample processing
- Anywhere rapid serum or plasma is needed

High Quality Gel Separation

In just 3 minutes, the Express 4 can produce serum or plasma equal to tubes spun for 10 or more minutes in conventional horizontal clinical centrifuges.



StatSpin Express 4: Modern, Fast, Powerful

The StatSpin Express 4 is UL and CE marked. Universal power input works off any AC electrical power from 100-240V. Suitable for worldwide locations.

The StatSpin Express 4 is powerful. The rugged brushless motor is maintenance-free. StatSpin provides a comprehensive 2-year warranty.

Adaptors for 7 and 10 mL tubes come with the unit. It can accomodate tubes from 1.5mL -10mL. Adaptors sold separately.



System Specifications:

Dimensions	Height 8.0 inches (20.3 cm) Width 13.0 inches (33.0 cm) Depth 16.0 inches (40.6 cm) Weight 22.0 lbs (10.0 kg)	
Acceleration Time	≤ 30 seconds	
Deceleration Time	≤ 30 seconds	
Cycle Times/Speeds	3 minutes 5100 rpm 4000 xg 5 minutes 5100 rpm 4000 xg 10 minutes 4500 rpm 3100 xg	
Tube Sizes	Accepts blood tubes 1.5-10mL	
Power Requirements	100 to 240V, 50/60 Hz, 2.5 amps	
Warranty	2 years	

Specifications subject to change without notice

Product #	Description
SSH4	StatSpin Express 4 for 100-240V, 50/60 Hz. Includes 8 place rotor, eight 7 mL inserts, eight 10 mL inserts, operator's manual, manual latch release tool, one hex key tool, and power cord.



With 3 settings the unit is simple to use.

Iris Sample Processing 60 Glacier Drive Westwood, MA 02090 Tel) 781.551.0100 Fax) 781.551.0036 800-782-8774 www.proiris.com



StatSpin® Express 4 Horizontal Centrifuge

Operator's Manual



Operator's Manual **StatSpin® Express 4**Horizontal Centrifuge

Model Number M510

For in-vitro diagnostic use

Product Number

SSH4 - StatSpin[®] Express 4 for 100-240 VAC, 50/60 Hz

StatSpin and Iris are registered trademarks of IRIS International, Inc.

Copyright 2008

Printed in U.S.A.

Table of Contents

How to use this manual	ii
Section 1	. 1
Unpacking and Installation	1
Inspect Packaging	1
Verify Contents	1
Install	
Connect Power	1
Section 2	. 2
System Overview	
Principle and Intended Use	. 2
Symbols and Definitions	. 2
Operator Controls	3
Error Indicators	_
Error Codes Table	. 4
Accessories	
StatSpin Express 4 Tube Insert Guide	5
Section 3	. 6
Operating Instructions	6
Opening and Closing the Cover	
Removing and Installing the Rotor	
Spinning the Sample	7
Section 4	.8
Maintenance	. 8
Overview	8
Cleaning	
Checking the Rotor Speed	
Troubleshooting	
Service	
Section 5	11
Section 5	11 11
Section 5	11 11
Section 5	11 11 11

How to use this manual

This manual along with information contained on product labels and in package inserts should provide you with all the information you need to operate and maintain the StatSpin® Express 4.

italicized text.

Please pay close attention to the instructions that accompany the notes and symbols as well as the standard laboratory practices outlined by your facility and local regulatory agencies. The table below lists all the CAUTIONS and WARNINGS for the StatSpin® Express 4.



WARNING - Do not expose the centrifuge or its rotor to strong or concentrated acids, bases or oxidizing agents, aromatic or halogenated hydrocarbons, esters or ketones.

WARNING - Do not operate or store centrifuge or its rotor below the 2°C minimum operating temperature. At extreme low temperature (below -18°C) the rotor material is subject to cracking under impact stress (such as dropping onto a hard surface).

WARNING - Do not use the supplied line cord outside of North America. Use a power cord with a grounded male connector suitable for the power outlet being used, which is rated at 3.0 Amps or more and has an IEC320/CEE22 female connector to attach to the centrifuge.

CAUTION - Maintain a 300 mm (11.8 inches) clearance envelope around centrifuge during operation. Do not deposit any potentially hazardous materials within the CLEARANCE ENVELOPE.

CAUTION – Never operate the centrifuge without the rotor locked securely in place. Failure to properly install and secure the rotor may result in damage to the centrifuge not covered by warranty.

WARNING - Inspect instrument for cracks or any physical damage to housing, cover and rotor. Damage may result in unsafe operation; discontinue use until repairs have been performed.

CAUTION - Replace glass tubes used for rotor balancing after 10 spin cycles to reduce chances of breakage due to the repeated stress of centrifugation. Replace Tube Inserts immediately if a tube breaks during centrifugation.

CAUTION- The rotor (RTH8) has a finite lifespan of 50,000 cycles. Discontinue use after this period.

CAUTION - The cover interlock by-pass is for emergency use only. Misuse may expose the operator to unsafe conditions.

CAUTION – Do not spray cleaning solutions directly onto the centrifuge bowl or housing; overspray could reach the motor bearings or internal circuitry. Subsequent damage may not be covered by warranty. Before using any cleaning or decontamination methods except those recommended, operators should check with the manufacturer that the proposed method will not damage the equipment.

CAUTION – Unplug the centrifuge from the wall outlet before cleaning or performing maintenance.



CAUTION - Follow Universal Precautions with all biological specimens, regardless of whether the specimen is known to contain an infectious agent. (See references)

Please use the system as intended. Improper use of the StatSpin® Express 4 Horizontal Centrifuge and/or its accessories may cause damage to the system, inaccurate results, or potentially nullify warranties.

Unpacking and Installation

Inspect Packaging

The StatSpin[®] Express 4 and its accessories are delivered in a single carton. If the centrifuge or accessories have been damaged in transport, please inform your carrier immediately.

NOTE: Save the shipping carton and packing materials to facilitate return should service be required.

Verify Contents

The package contains:

One StatSpin® Express 4 horizontal centrifuge (Product No. SSH4)

One centrifuge rotor (Product No. RTH8)

Eight rotor inserts for 13x100 mm tubes (Product No. SV09)

Eight rotor inserts for 16x100 mm tubes (Product No. SV07)

One line cord for use in North America only.

One Operator's Manual

One manual latch release tool

One 1/8 inch hex key

Install

- Place the centrifuge on a solid level surface suitable for operation of laboratory instrumentation.
- Position the centrifuge out of direct sunlight and away from sources of intense heat or cold. Improper conditions can cause damage to the housing, rendering unit unsafe to operate.
- See the Appendix for the acceptable range of operating temperature and humidity.
- o Remove the foam shipping retainer around the rotor before operating the centrifuge.



WARNING - Maintain a 300 mm (11.8 inches) clearance around the centrifuge. Do not deposit any potentially hazardous materials within the CLEARANCE ENVELOPE.

Connect Power

- Plug the centrifuge into a grounded outlet supplying 100-240 V @ 50-60 Hz.
- o Turn on the power switch (located on the rear panel, above the line cord connector).
- When the instrument completes the power-on check it will give a two-beep ready signal. The threeminute green indicator will illuminate. Press the stop button to release the latch and open cover.



WARNING - Do not use the supplied line cord outside of North America. Use a power cord with a grounded male connector suitable for the power outlet being used, which is rated at 3.0 Amps or more and has an IEC320/CEE22 female connector to attach to the centrifuge.

System Overview

Principle and Intended Use

IVD

For *in-vitro* diagnostic use to produce the rapid separation of whole blood contained in original collection tubes.

The StatSpin® Express 4 is a high-speed horizontal bench top centrifuge used to rapidly separate blood components in the original sample collection tubes. Do Not centrifuge substances with a density greater than 1.2 kg/dm³.

The horizontal rotor included with the centrifuge accepts up to 8 primary 16x100mm primary blood tubes with a maximum volume of 10 mL per tube. The operator selects a fixed spin time of 3, 5 or 10 minutes. The rotation speed is 5100 rpm for the 3 and 5 minute cycles, producing a centrifugal force of 4000 xg at a rotor radius of 13.8 cm.

The 10 minute cycle generates 3100 xg at 4500 rpm. This setting provides lower g-forces for procedures which require a traditional spin.

Symbols and Definitions

REF	Product/Reference Number	Indicates the Iris Sample Processing product/catalog number
\triangle	Caution	Statement of caution/warning: Read carefully.
1	Temperature limitation	Indicates storage or operating temperature restrictions
EC REP	EC Representative	European Community Authorized Representative
IVD	For <i>in vitro</i> diagnostic use	Indicates for use only as in-vitro diagnostic device
NON	Non-sterile	Indicates a non-sterile product
SN	Serial Number	Indicates instrument serial number
\bigcap i	Consult Instructions	Refers operator to the instruction manual for additional information
CE	European Community	Compliance to IVD Directive
cUL / UL	Agency	Listed device with Underwriters Laboratory
	Fuse	Rating: 2.5A , 250V , F
\bigvee	AC	Single Phase Alternating Current

Operator Controls

	Start	The Start button initiates the selected cycle.
	Stop/Open	The <i>Stop/Open</i> button interrupts the cycle and releases the cover when the rotor has stopped.
• 3 min	3 Minute Cycle	The 3 min button selects a cycle of three minutes at 5100 rpm.
• 5 min	5 Minute Cycle	The 5 min button selects a cycle of five minutes at 5100 rpm.
● 10 min	10 Minute Cycle	The 10 min button selects a cycle of ten minutes at 4500 rpm.
•	Error/Service	The red indicator with an adjacent wrench symbol flashes to signal an error condition or remains continuously illuminated once the rotor reaches 50,000 cycles.

Error Indicators

StatSpin® Express 4 error conditions are signaled by a flashing red *Error/Service* indicator on the control panel.

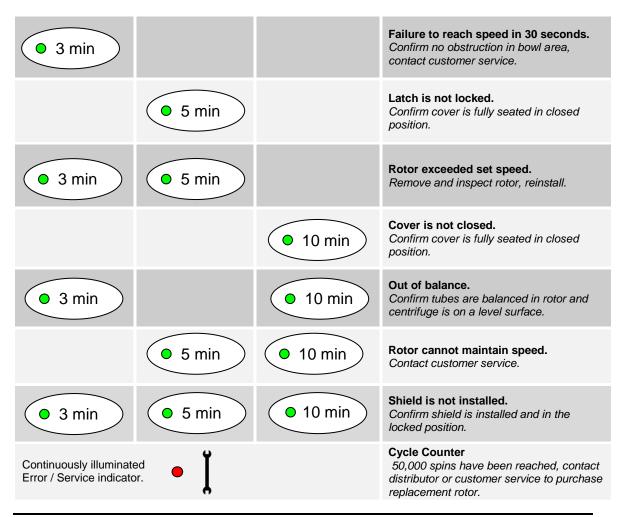
The cause of the error condition can be identified by the combination of green cycle time indicators that are also flashing. See Error Codes Table.

To clear the error condition, correct the problem and press the *Stop/Open* button.



Error/Service light flashing

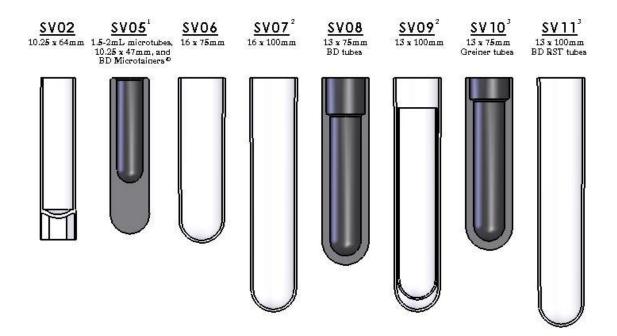
Error Codes Table



Accessories

Product No.	Description	
SV02	Inserts for 3 mL tubes (10.25 x 64 mm) 4/pk.	
SV05	Inserts for 2 mL tubes (10.25 x 47 mm or BD Microtainers) 4/pk.	
SV06	Inserts for 7 mL tubes (16 x 75 mm) 8/pk.	
SV07	Inserts for 10 mL tubes (16 x 100 mm) 8/pk.	Included with centrifuge
SV08	Inserts for 5 mL BD tubes (13 x 75 mm) 8/pk.	
SV09	Inserts for 7 mL tubes (13 x 100 mm) 8/pk.	Included with centrifuge
SV10	Inserts for 5 mL Greiner tubes (13 x 75 mm) 8/pk.	
SV11	Inserts for 4 mL BD RST tubes (13 x 100 mm) 8/pk	
RTH8	8 place horizontal rotor.	Included with centrifuge

StatSpin® Express 4 Tube Insert Guide



L SV05 tube inserts replace SV03 and SV04 tube inserts 2, SV07 and SV09 tube inserts included with Express 4 3, SV10 and SV11 are new tube inserts for Express 4



Operating Instructions

Opening and Closing the Cover

An electronic operated cover interlock mechanism prevents operation if the cover is not completely closed and locked, and prevents the cover from opening when the rotor is turning. An operating cycle can be initiated only if the cover latch is engaged.

Cover Interlock By-pass

In case of power failure or malfunction, the *Stop/Open* button may not release the cover. To recover samples in the rotor, the cover interlock mechanism can be released manually by inserting the manual latch release tool supplied with the instrument into the small hole located in the front of the housing. Push the tool inward about one inch (25 mm) to release the latch.



CAUTION - The cover interlock by-pass is for emergency use only. Misuse may expose the operator to unsafe conditions.

Removing and Installing the Rotor

The StatSpin® Express 4 is shipped with the rotor installed and supported by a shipping retainer. To prevent possible damage to the centrifuge's motor mount, it is important to remove the rotor whenever the centrifuge is moved or shipped to another location.



CAUTION- The rotor (RTH8) has a finite lifespan of 50,000 cycles. Discontinue use of rotor after this period. Replace with new rotor for continued use of centrifuge.

Before operating the centrifuge, ensure that the rotor is fully seated onto the motor shaft and the hex screw is fully tightened.

To remove the rotor:

- Open cover and remove shield. Grasp shield at the center opening and rotate clockwise. Simply lift straight up and out of centrifuge housing.
- 2. Locate 1/8 inch hex key supplied and remove center screw of rotor hub.
- 3. Remove rotor lifting straight up and out of centrifuge.

To re-install rotor:

Note that the motor shaft has a D shape at the tip. This mates with the rotor and must be aligned for the rotor to fully seat onto the motor shaft. Do not force rotors onto shaft. Damage could result to motor and affect warranty.

- 1. Align "D" shape on shaft with rotor hub.
- 2. Slide the rotor onto the shaft and push down gently to seat.

- Reinstall center screw and tighten with supplied hex key.
- 4. Reinstall shield into housing. Align shield hooks with cut-outs in housing. Grasp shield at center and rotate counter-clockwise. If shield is not locked into place instrument will not operate.

Spinning the Sample



CAUTION - Never operate the StatSpin® Express 4 without the rotor and shield securely in place. Do not attempt to by-pass any interlock switches located around bowl and shield area. Failure to properly install and secure the rotor may result in damage to the centrifuge not covered by warranty.

CAUTION – Maintain a 300 mm (11.8 inches) clearance envelope around centrifuge during operation. Do not deposit any potentially hazardous materials within the CLEARANCE ENVELOPE.

Loading

- Ensure the appropriate tube inserts are installed. The StatSpin[®] Express 4 centrifuge is provided with eight tube inserts for 13 x 100 mm tubes (Product No. SV09) and eight tube inserts for 16 x 100 mm tubes (Product No. SV07). Other sizes are available (See accessories).
- 2. The rotor must be properly balanced to ensure smooth operation. DO NOT spin a single tube.
- 3. Use the same size and style tubes in opposite positions. Balance liquid in tubes to within 0.5 mL.
- 4. Close and latch the centrifuge cover.
- 5. Select the spin time by pressing the appropriate cycle time button.
- 6. Press Start button.



CAUTION - Replace Tube Inserts immediately if a tube breaks during centrifugation.

CAUTION – Replace glass tubes used for rotor balancing after 10 spin cycles to reduce chances of breakage due to the repeated stress of centrifugation.

Cycle Settings

The operator should select spin time settings to achieve optimum results for specific applications. The following are general guidelines:

Setting		Speed	RCF
3 min	Produces high quality plasma/serum from whole blood for chemistry and cardiac testing.	5100 rpm	4000 xg
5 min	Produces high quality plasma/serum from whole blood for chemistry, coagulation and cardiac testing. Recommended for most Greiner gel tubes	5100 rpm	4000 xg
10 min	Slower traditional spin. Centrifugal forces are decreased to provide a traditional spin.	4500 rpm	3100 xg

Unloading

- 1. Upon completion of the cycle, the rotor decelerates to a complete stop in 30 seconds or less, a signal beep will sound, and the cover latch automatically releases.
- 2. Lift the cover and carefully remove the tubes.

Section 4

Maintenance

Overview

Iris Sample Processing recommends that instrument operators perform periodic inspections and preventative maintenance on all instruments. Contact customer service or your distributor if the instrument is not functioning properly.



CAUTION - Unplug the StatSpin® Express 4 from the wall outlet before cleaning or performing maintenance.

WARNING – Inspect instrument for cracks or any physical damage to housing, cover and rotor. Damage may result in unsafe operation; discontinue use until repairs have been performed.



WARNING – Do not expose the StatSpin® Express 4 or its rotor to strong or concentrated acids, bases or oxidizing agents, aromatic or halogenated hydrocarbons, esters or ketones.

Cleaning

The StatSpin® Express 4 is equipped with a stainless steel bowl for easy cleaning. Clean the outside surfaces and switch overlay panel with a water-dampened cloth and mild detergent. Clean the inner surface or bowl with a mild detergent, and if necessary, a disinfectant, wiping surfaces with a **dampened** cloth using 70% alcohol or 10% bleach solution. Do not sterilize rotor.



CAUTION - Do not spray cleaning solutions directly onto the centrifuge bowl or housing; overspray could reach the motor bearings or internal circuitry. Subsequent damage may not be covered by warranty. Before using any cleaning or decontamination methods except those recommended, operators should check with the manufacturer that the proposed method will not damage the equipment.

General Cleaning

- Open centrifuge cover.
- 2. Unplug centrifuge from the electrical outlet.
- 3. Remove the shield.
- 4. Remove the rotor (see Removing and Installing the Rotor).
- 5. Clean bowl area with mild detergent.
- 6. Re-install rotor (see Removing and Installing the Rotor).
- 7. Plug into electrical outlet.

Rotor Disinfecting

- 1. Open centrifuge cover.
- 2. Unplug from the electrical outlet.
- 3. Remove shield to allow access to rotor.
- 4. Remove the rotor.
- 5. The rotor and inserts may be soaked in detergent and warm water or a 10% bleach solution.
- 6. **DO NOT** attempt to clean an insert that has a broken tube. Dispose of insert immediately.
- 7. Dry the rotor and inserts with a clean absorbent paper towel or allow to air dry.
- 8. Re-install the rotor (see Removing and Installing the Rotor).
- 9. Plug into electrical outlet.

Checking the Rotor Speed

The rated speeds (±5%) can be checked with a stroboscope or photoelectric tachometer. Point tachometer thru transparent cover at reflective patch located near rotor center. Do not defeat any safety interlocks while performing test. If the centrifuge fails to achieve an operating speed of 5100 rpm ±5% in the 3 min and 5 min settings or 4500 rpm ±5% in the 10 min setting, contact your distributor or the Iris Sample Processing customer service department.

Troubleshooting

Symptom:	Solution:
Red Error / Service indicator flashing, unit will not spin.	Refer to Error Code Table of manual to identify and correct problem.
Tubes are loose and do not fit into buckets.	Be sure the correct tube inserts are in use. Check insert listing available under accessories to match with appropriate tube sizes.
No LEDs are on and unit will not spin.	Main power switch is located on rear panel along with fuse holder. Check switch position and if necessary condition of fuses.
	Confirm line cord is plugged into a powered outlet.
Unit vibrated and shuts down.	This instrument detected an imbalance and stopped operation. Clear the error via keypad and check tube balance.
There is a crack in the top cover or housing.	Discontinue operation. Have unit serviced.
Rotor will not come off motor shaft.	Remove screw and apply straight upward pressure at rotor center. Do not bend wires. Contact Customer Service for additional information.
Red Error LED is on and will not turn off.	Your rotor has reached 50,000 cycles and requires replacement. Discontinue operation. Please contact distributor or customer service for assistance with rotor purchase.
Caps are popping off the tubes during centrifugation.	Be sure the correct tube inserts are in use. Check insert listing available under accessories to match with appropriate tube sizes.
Centrifuge not providing platelet poor plasma.	Check rotor speed, and ensure tubes are balanced. Check to make sure you are using the 5 minute setting. Ensure probe of the analyzer is positioned vertically in plasma, no more than ¼ inch from top surface of plasma, and away from the tube walls. Contact customer service for guidelines for obtaining platelet poor plasma.
Sample is not separating adequately.	Ensure tubes are properly mixed immediately following collection. Refer to tube manufacturer for recommended procedure. Check rotor speed and cycle times. Allow serum tubes to clot prior to centrifugation.
Tubes are breaking during centrifugation.	Replace tube insert. Do not attempt to clean glass from inserts. Balance tubes should be replaced after 10 cycles.
Cover does not open.	Confirm unit has power; press the <i>Stop/Open</i> button. In the event of a power failure or malfunction, insert latch release tool into the small hole on front panel. Cover will release and samples can be removed.
3 min, 5 min, 10 min flashing, unit will not spin.	Confirm shield is securely locked in place (counter-clockwise).

Service

Refer all service to Iris Sample Processing or an Authorized Repair Facility.

Instrument fuse(s) are located on the rear panel. Remove the line cord to access the fuse holder. Replace with fuses of the same type and rating.

2.5A 250V F 5 x 20 mm

Be sure to complete the Warranty Registration Card as directed.

Decontamination before returning for service:



Any instrument or accessory that has been exposed to blood or other biological materials must be cleaned prior to shipment to the manufacturer or distributor for service. **This decontamination is required by Federal Law (Title 48 and 49 of the Federal Regulations)** and in accordance with the Environmental Protection Agency's Regulations for Biohazard Waste Management. Iris Sample Processing personnel cannot perform this decontamination. Refer to maintenance section for cleaning instructions.

Appendix

Specifications

Product Number	SSH4	
Model Number	M510	
Spin Parameters	3 min: 180 seconds @ 5100 rpm / 4000 xg	
	5 min: 300 seconds @ 5100 rpm / 4000 xg	
	10 min: 600 seconds @ 4500 rpm / 3100 xg	
Acceleration Time	≤ 30 seconds	
Deceleration Time	≤ 30 seconds	
Electrical	100 – 240 VAC, 50/60Hz, 2.5 Amps	
Dimensions	Height: 8.0" (20.3 cm)	
	Width: 13.0" (33.0 cm)	
	Depth: 16.0" (40.6 cm)	
	Weight: 20 lbs. (9 Kg)	
Environmental	For indoor use only	
	Ambient temperature 2°C to 40°C	
	Maximum 80% RH between 2°C and 30°C, decreasing to 50% RH at 40°C	
	Maximum altitude 2000 m	
	Main supply voltage fluctuations should not exceed ±10%	
	Transient over-voltages according to installation category II	
	Pollution degree 2	

Specifications are subject to change without notice.



WARNING – Do not operate or store the centrifuge or its rotor below the 2°C minimum operating temperature. At extreme low temperature (below -18°C) the rotor material is subject to cracking under impact stress (such as dropping onto a hard surface).

References

- CLSI. "Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Second Edition." CLSI document M29-A2 [ISBN 1-56238-453-8]. CLSI, 940 West Valley Rd, Suite 1400, Wayne, Pennsylvania 19087-1898 USA, 2001.
- CDC. Recommendations for Prevention of HIV Transmission in Health Care Settings. MMWR (Suppl. No. 2S):2S-18S, 1987.
- CDC. Updated: US Public Health Service Guidelines for the Management of Occupational Exposures to HBV, HCV and HIV and Recommendations for Post Exposure Prophylaxis. Appendix A and B. MMWR 50 (RR-11): 1-42, June 29, 2001.



A Division of IRIS International, Inc.
Westwood, MA 02090 USA
Phone: 800-782-8774
or 781-551-0100
Fax: 781-551-0036
www.proiris.com



mdi Europa GmbH Wittekamp 30 D-30163 Hanover Germany +49-511-39089530 Made in USA

55-005712-001 Rev F

Iris Sample Processing Warranty

Iris Sample Processing, a Division of IRIS International, Inc. warrants that the centrifuge shall be free from defects in material and/or workmanship, under normal use and service, for the period expiring twenty-four (24) months from the date of installation. Accessories including rotor shall be free from defects in material and/or workmanship, under normal use and service, for the period expiring twenty-four (24) months from the date of installation or 50,000 cycles whichever occurs first. The purchaser must have completed and forwarded to Iris Sample Processing the Warranty Registration Card. Iris Sample Processing will, at its discretion, repair or replace any unit or part covered under this warranty returned to Iris Sample Processing with shipping costs prepaid. Repaired or replaced instruments supplied under this warranty carry only the remaining portion of the original warranty and repairs shall not interrupt or prolong this warranty. For warranty terms and conditions outside the United States, contact your Authorized Iris Sample Processing Distributor.

No warranty extended by Iris Sample Processing shall apply to any instrument that has been damaged due to misuse, negligence, accident, or damage resulting from unauthorized repairs, alterations, or improper installation.

Iris Sample Processing makes no warranty other than the one set forth herein. 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. No agent or employee of Iris Sample Processing is authorized to extend any other warranty or assume for Iris Sample Processing any liability except as set forth above. This warranty is only applicable to the original purchaser.

Limitation of Liability

Iris Sample Processing shall not be liable for any loss of use, revenue or anticipated profits, or for any consequential or incidental damages resulting from the sale or use of the products. The purchaser shall be deemed liable for any and all claims, losses, or damages incurred by the use or misuse of the Iris Sample Processing instrument by the purchaser, its employees or others, following receipt of the instrument or other items.

