



Centrifuge Catalog

# CENTRIFUGE CATALOG

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Groups

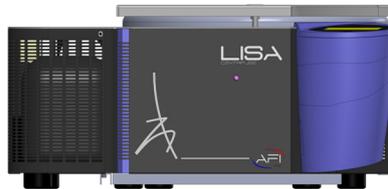


**SIRENA**  
Centrifuge MultiLab  
0.6 L

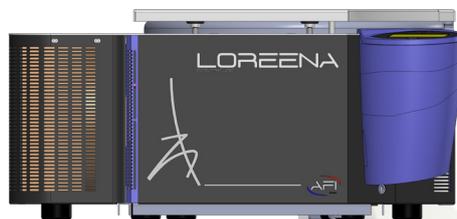



**ISA**  
Centrifuge  
0.6 L

Introducing the **NEW** innovative technologies designed for you !



**LISA**  
Centrifuge MultiLab  
1.6 L to 2.5 L

**LOREENA**  
Centrifuge MultiLab  
1.6 L to 4 L




**KATRINA**  
Blood Banking Centrifuge  
4 L to 6 L

**REGINA**  
Blood Banking Centrifuge  
12 L



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### Rotor Recognition

Safely run your centrifuge knowing a rotor can not achieve speeds over its intended use.



### Touchscreen Controls

Touch makes everyone an expert. The ease of use improves user adoption. Increase the speed of your tasks. Help eliminate errors with clearly defined menus



### Power Factor Control

The centrifuge runs constant and uniform voltage and amperage supplied to the motor; allowing 100% repeatability in the quality of the centrifugation. This feature brings you constant quality and high reliability in the results.



### End of Run Notification

In addition to an audible alarm, the InSight Control Center features an end of cycle light that illuminates when centrifugation ceases operations providing a visual indication it is safe to remove your work.

## Smaller in Size, but BIG on Capacity

The AFI range centrifuges offers the largest capacity available relative to its footprint.

Designed around you and your applications, the MultiLab AFI centrifuge range with amazing footprint. Help to save you more bench space while improving safety.

Our rotors are designed to reach high speed performances and low noise level. This construction technique allows AFI to focus on adding more capacity with more speed.

Capacities to Maximize your Work-flow.



## The CLICKSPIN System provides the Best Flexibility System to change Applications available on centrifuge Multilab only.



## CLiCK SPIN

Click-Spin patented technology will allow you to exchange rotors in the simplest and fastest way possible; no tools are needed! Align the rotor with the motor shaft and it will sit and lock itself. Once installed, an audible "CLICK" will ensure you the rotor is correctly seated.

When switching rotors per application, grasp the red dial of the rotor and twist counter-clockwise while anchoring the body of the rotor. An audible "CLICK" will sound, and your rotor will then be unlocked from the motor shaft. You can now quickly remove it and install your new rotor.

Click-Spin technology is Available on AFI MultiApps centrifuges only.



### New Bio-Lid Design

The unique design of our lids allows you to open and close the buckets with a single hand, and they can also be installed and removed directly in the bowl.



### Routine Cleaning Made Easy

Contamination can hide in the tightest of places. The ability to remove a rotor within seconds makes the routine cleaning of the centrifuge bowl easy.

### Application Flexibility

The simple action of a twist allows the rotor to be removed within seconds. Start a new application by placing a new rotor over the shaft. An audible "CLICK" notifies a user the rotor has been securely locked.

### Security

The automatic locking feature allows a rotor to be securely installed without the worry of damage to the centrifuge.

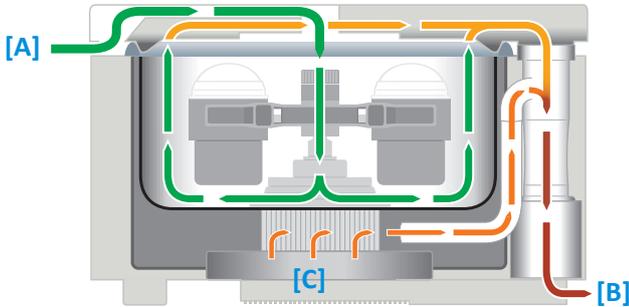


# Reliable Quality

- Maintaining the proper temperature of a centrifuge chamber is a must when spinning cells, plasma, blood, and more.

## Nothing Over 37°C

Ventilated Model



■ Ambient Temperature Air    ■ Warm Exhausted Air

The AFI ventilation system's unique first air design pulls laboratory air from the front of the unit [A]. The vortex created within the chamber propels air through the exhaust system depositing heated air on the bottom back of the unit [B]. The separation of ambient temperature laboratory air and heated exhausted air helps to maintain chamber temperature under 37°C. The warm air from the motor [C] is pulled by the Venturi effect in the flex tube and exhausted from the bottom.

## Any Speed, Any Accessory at 4°C

Refrigerated Model



The AFI robust refrigeration system surrounds the centrifuge bowl providing the ability to maintain temperature of 4°C with any accessory at any speed.

- Whether its laboratory safety, product benefits or service, AFI is the safer choice.

### Imbalance Detection

The Centrifuge automatically detects and stops if the rotor is not evenly loaded. You have the option to manually set tolerance levels.

### Robust Barrier Wall

Safe and durable. A 1/2 inch (13 mm) steel wall makes up the body of the centrifuge maximizing safety and laboratory footprint.

### Safety Lid Lock

Gently open and lock the centrifuge lid with an automatic locking mechanism to keep your laboratory safe during operation.



# ISA, Everything of a big !



## InSight Electronic Control Center

Simplicity and user-friendliness are always the keywords when it comes to laboratory equipment, Base on our previous experience with LISA and LOREENA Range. we have adapted the interface to facilitate you're your quick start and give you a pleasant and easy programming protocols.

A big and central knob has been implemented on the InSight Electronic Control Center (ECC).

ECC is a plug-and-play control center housing the brains of the machine.

The ECC is designed with a amazing contrast screen, main knob to simplify centrifuge setting controls

### AFI

User-Friendly

- Large Screen 4.7 inches with low Energy Consumption
- Flashing Indicator and audible melody for end of cycle
- Intuitive Quick Setting
- Up to 99 programmms
- Refrigerated and Ventilated are available



Fits in



### InSight Electronic Control Center

Innovation design for you!

Hand Gesture Recognition for Intuitive command !!

The new AFI electronic design has been design to keep the Simplicity and user-friendliness as all the AFI centrifuge range.

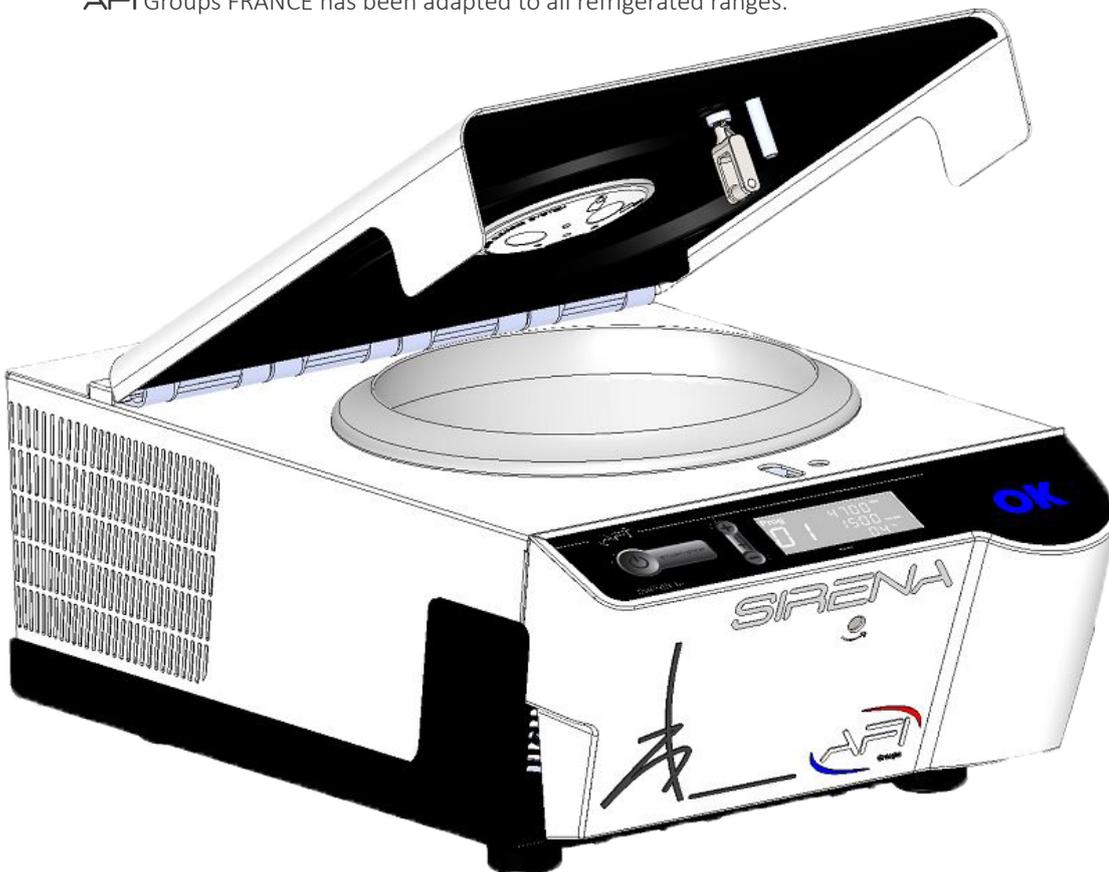
Amazing contrast screen, tactile touch to simplify centrifuge setting controls and Opening/Stop commands gestures.

### AFI Innovation

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The «Auto Cleaning» system offers a compact and unique design that gives you excellent cleaning results and ensures complete disinfection of your centrifuge chamber.

Fully automatic, innovative and unique this concept «auto cleaning» developed by AFI Groups FRANCE has been adapted to all refrigerated ranges.





## InSight Electronic Control Center

Because simplicity and user-friendliness are keywords when it comes to laboratory equipment, we have redefined these concepts by developing the InSight Electronic Control Center (ECC).

InSight ECC is a plug-and-play control center housing the brains of the machine.

The ECC is designed with a touchscreen to simply centrifuge controls for high user adoption.

**AFI**

User-Friendly

- One-Touch operation with pre-saved protocols
- Highly visible backlit display
- Indicators at end of run, including automatic lid opening and adjustable audible signal
- Up to 100 programmes with title description
- 3 Backlight color display choice



# GAMME ISA

## 0.6 L



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## ISA

Fits in. Clinical Applications

- Small Bench Top Centrifuge
- 36 x 5/7 mL Blood Collection Tubes
- Simply commands by Push/Turn Button
- 4.6" graphic color screen
- Highly Visible Backlit display
- Dimensions Ventilated Model
  - Height : 28 cm
  - Width : 36 cm
  - Depth : 45 cm
- Dimensions Refrigerated Model
  - Height : 29 cm
  - Width : 44 cm
  - Depth : 72 cm

# Swinging Bucket Rotors



AFI Centrifuge Accessories	RXN-150	AFI-B150	AFI-BS150	AFI-DB50	RH-DWN-150
Maximum Capacity (ml)	4 x 150 ml	-	-	-	6 Microplates
Maximum Speed (rpm)		4.500 rpm	4.500 rpm	4.500 rpm	4.500 rpm
Maximum RCF (x g)	-	3.415 x g	2.917 x g	3.460 x g	2.400 x g
Biocontaiment		✓	✓		

**COMING SOON!**

	150 mL AFI Flat Bottle	4	-	-	-
	80mL AOR Advanced Oak Ridge	4	-	-	-
	50mL Conical Tube	4	4	8	-
	50mL Skirted Conical Tube	4	4	-	-
	50mL AOR Advanced Oak Ridge	4	4	-	-
	30mL Conical Tube	4	4	4	-
	30mL Skirted Conical Tube	4	4	-	-
	14mL Urine Tube	16	24	-	-
	15mL Conical Tube	8	8	8	-
	15 mL Corex™/Kimble™ Tube	8	8	-	-
	11mL IVF Centrifuge Tube	8	8	-	-
	10mL Blood Collection Tube	16	24	-	-
	5-7mL Blood Collection Tube	24	36	-	-
	1,5 - 2mL MicroTube	48	72	-	-
	Standard Microplate	-	-	-	6
	DeepWell Microplate	-	-	-	2

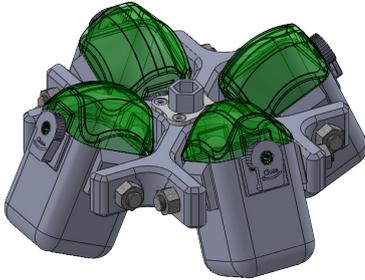
# Rotors and Adapters

## For Swinging Buckets rotors

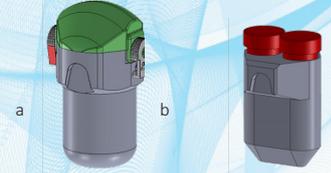


### RXN-150 Swinging Square Buckets Rotor

### Compatible Buckets



Cat N°	Adapter image	Description	Rotor capacity	Max tube Dimensions (ø x L mm)
<b>Rotor</b>				
AFI-RXN150	-	ISA Swinging Bucket Rotor Cross	-	-
AFI-CP150	-	CLINICAL PACK ISA	36 x 5 mL	-
AFI-SB150	-	Square Buckets set of 4 (possibility sets of 2)	36 x 5 mL	-
AFI-B150	a	Round Buckets set of 4 (possibility sets of 2)	24 x 5 mL	-
AFI-DB50	b	Dédicated Buckets for 50/15 mL Conical Tube (possibility sets of 2)	8 x 50 mL	-
AFI-L150	-	Biosafety secured lid for B150 set of 4	-	-
AFI-LSB150	-	Biosafety secured lid for BS150 set of 4	-	-
<b>Accessories Kits</b>				



Cat N°	Adapter image	Description	Rotor capacity	Max tube Dimensions (ø x L mm)
<b>Rotor</b>				
AFI-RXN150	-	ISA Swinging Bucket Rotor Cross	-	-
AFI-CP150	-	CLINICAL PACK ISA	36 x 5 mL	-
AFI-SB150	-	Square Buckets set of 4 (possibility sets of 2)	36 x 5 mL	-
AFI-B150	a	Round Buckets set of 4 (possibility sets of 2)	24 x 5 mL	-
AFI-DB50	b	Dédicated Buckets for 50/15 mL Conical Tube (possibility sets of 2)	8 x 50 mL	-
AFI-L150	-	Biosafety secured lid for B150 set of 4	-	-
AFI-LSB150	-	Biosafety secured lid for BS150 set of 4	-	-
<b>Accessories Kits</b>				
71199012	-	Tube of grease 20gr	-	-
71199020	-	Replacement Kit AFI-LS150 O-rings for lids set of 4	-	-
AFI-50R15-C	-	15mL Conical Tube Adapters	8 x 15 mL	-
<b>Adapters Square Buckets set of 4 (possibility sets of 2)</b>				
AFI-06T50C-SB	1	50 mL Conical Tube	4 x 50 mL	30 x 122
AFI-06T50AOR-SB	2	50mL AOR* Round Tube	4 x 50 mL	29 x 122
AFI-06T50S-SB	3	50 mL Skirted Conical Tube	4 x 50 mL	30 x 122
AFI-06T30-SB	4	30 mL Conical Tube	4 x 30 mL	25 x 124
AFI-06T30S-SB	5	30 mL Skirted Conical Tube	4 x 30 mL	25 x 124
AFI-06T15C-SB	6	15mL Conical Tube	8 x 15 mL	17 x 118
AFI-06T10C-SB	7	10mL Conical Tube	16 x 10 mL	21 x 115
AFI-06T10-SB	8	14mL Urine Tube	24 x 14 mL	16 x 115
AFI-06T10-SB	8	10mL Blood Collection Tube	24 x 10 mL	16 x 115
AFI-06T5-SB	9	5-7mL Blood Collection Tube	36 x 5 mL	12 x 114
AFI-06T2-SB	10	1,5 - 2mL MicroTube	72 x 2 mL	11 x 50

\*Advanced Oak Ridge



# Rotors and Adapters

## For Swinging Buckets rotors



### RXN-150 Swinging Round Buckets Rotor

### Compatible Buckets

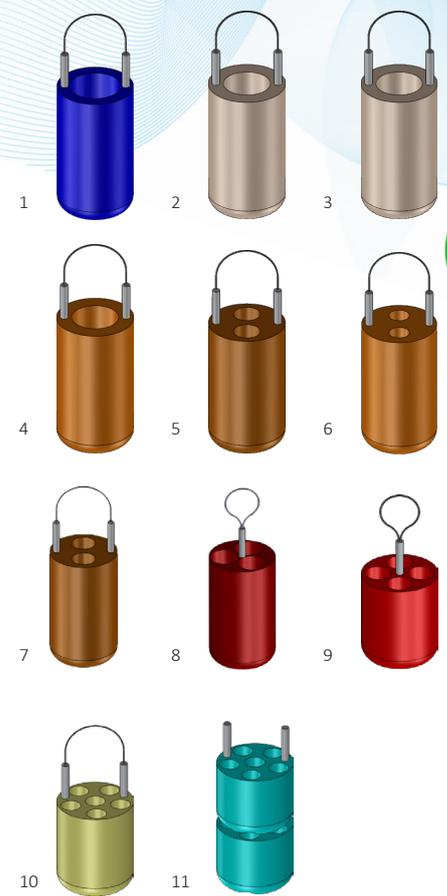


Cat N°	Adapter image	Description	Rotor capacity	Max tube Dimensions (ø x L mm)
<b>Rotor</b>				
AFI-RXN150	-	ISA Swinging Bucket Rotor Cross	-	-
AFI-SB150	-	Square Buckets set of 4 (possibility sets of 2)	36 x 5 mL	-
AFI-B150	a	Round Buckets set of 4 (possibility sets of 2)	24 x 5 mL	-
AFI-DB50	b	Dédicated Buckets for 50/15 mL Conical Tube (possibility sets of 2)	8 x 50 mL	-
AFI-L150	-	Biosafety secured lid for B150 set of 4	-	-
AFI-LSB150	-	Biosafety secured lid for BS150 set of 4	-	-
<b>Accessories Kits</b>				
AFI-BPP150	-	150 mL Polypropylene Flat Bottle	-	-



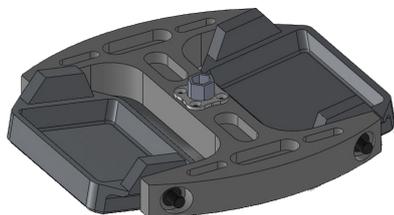
Cat N°	Adapter image	Description	Rotor capacity	Max tube Dimensions (ø x L mm)
<b>Rotor</b>				
AFI-RXN150	-	ISA Swinging Bucket Rotor Cross	-	-
AFI-SB150	-	Square Buckets set of 4 (possibility sets of 2)	36 x 5 mL	-
AFI-B150	a	Round Buckets set of 4 (possibility sets of 2)	24 x 5 mL	-
AFI-DB50	b	Dédicated Buckets for 50/15 mL Conical Tube (possibility sets of 2)	8 x 50 mL	-
AFI-L150	-	Biosafety secured lid for B150 set of 4	-	-
AFI-LSB150	-	Biosafety secured lid for BS150 set of 4	-	-
<b>Accessories Kits</b>				
AFI-BPP150	-	150 mL Polypropylene Flat Bottle	-	-
71199012	-	Tube of grease 20gr	-	-
71199018	-	Replacement Kit AFI-L150 O-rings for lids set of 4	-	-
AFI-50R15-C	-	15mL Conical Tube Adapters	8 x 15 mL	-
<b>Adapters Round Buckets set of 4 (possibility sets of 2)</b>				
-	-	<b>150 mL Flat Bottle</b>	<b>4 x 150 mL</b>	50 x 114
AFI-06T80AOR	1	80mL AOR* Round Tube	4 x 80 mL	38 x 117
AFI-06T50C	2	50 mL Conical Tube	4 x 50 mL	30 x 122
AFI-06T50AOR	3	50mL AOR* Round Tube	4 x 50 mL	29 x 122
AFI-06T50S	4	50 mL Skirted Conical Tube	4 x 50 mL	30 x 122
AFI-06T30	5	30 mL Conical Tube	4 x 30 mL	25 x 124
AFI-06T30S	6	30 mL Skirted Conical Tube	4 x 30 mL	25 x 124
AFI-06T15C	7	15mL Conical Tube	8 x 15 mL	17 x 118
AFI-06T10C	8	10mL Conical Tube	12 x 10 mL	21 X 115
AFI-06T10	9	14mL Urine Tube	16 x 14 mL	16 x 115
AFI-06T10	9	10mL Blood Collection Tube	16 x 10 mL	16 x 115
AFI-06T5	10	5-7mL Blood Collection Tube	24 x 5 mL	13 x 114
AFI-06T2	11	1,5 - 2mL MicroTube	48 x 2 mL	11 x 50

\*Advanced Oak Ridge



# Rotors and Adapters For Microplates Applications

## RHDW-N150 Swinging Bucket Rotor



Centrifuge	Model	Maximum Speed (rpm)	Maximum RCF (x g)
AFI ISA	R	4.500	2.400

Cat N°	Description	Rotor capacity	Maximum Height
<b>Rotor</b>			
AFI-RHDW-N150	Swinging Bucket Rotor cross	-	-
AFI-BHDW-N150	Microplate Carrier	2 x 3 Microplates 2 x 1 Deep-Well	45mm
<b>Accessories Kits</b>			
71199012	Tube of grease 20gr	-	-

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## Fixed angle rotors

### Angular Rotor 6x50 Sealed - 40°



Centrifuge	Model	Maximum Speed (rpm)	Maximum RCF (x g)
AFI MultiLab ISA	R V	5.600	4.383

Cat N°	Description	Rotor capacity	Max tube Dimensions (ø x L mm)
<b>Rotor</b>			
NU-FA6-50	Angular Rotor	6 x 50 mL	30x120
<b>Adapters</b>			
AFI-50R50-OAK	50mL AOR* Round Tube	6 x 50 mL	29x120
AFI-50R30-OAK	30mL AOR* Round Tube	6 x 50 mL	25x120
AFI-50R15-C	15mL Conical Tube	6 x 50 mL	17x121
AFI-50R10-OAK	10mL AOR* Round Tube	6 x 50 mL	17x121

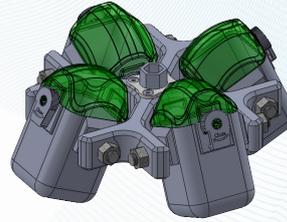
\*Advanced Oak Ridge

# CLINICAL Pack

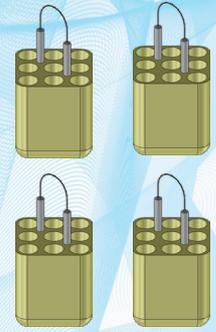
To Optimize Bench Space with Maximized capacity



+



+



REF : AFI-CP150

## RXN-150 Clinical Swinging Square Bucket Rotor With Sealed Carriers

Spin 36 Blood collection Tubes 5/7 mL

Ventilated  
4.700 Rpm  
3.726 x g

Refrigerated  
4.700 Rpm  
3.726x g

# Fiche Technique Technical Data

**ISA**  
0.6 L CENTRIFUGE



Spécifications / Specifications				
Modèle / Model		Ventilé / Ventilated		Réfrigéré / Refrigerating
Centrifugeuse de paillasse / Benchtop centrifuge				
Référence / Reference		AFI-CI060V-E	AFI-CI060V	AFI-CI060R-E    AFI-CI060R
Caractéristiques électriques / Electrical specifications				
Tension nominale / Nominal voltage (+/- 10%)		230 V	120 V	230 V    120 V
Fréquence / Frequency		50 / 60 Hz	60 Hz	50 Hz    60 Hz
Puissance alimentation max. / Power max.		400 W		800 W
Conformité aux directives Européennes / Compliance with European directives				
98/79/CE : Dispositifs médicaux de diagnostic in vitro / In vitro diagnostic medical devices		✓		✓
2006/42/CE : Directive machine / Machinery directive		✓		✓
2014/30/UE : Directive CEM / EMC directive		✓		✓
2012/19/CE : Directive DEEE / WEEE directive		✓		✓
2011/65/CE : Directive ROHS / ROHS Directive		✓		✓
IEC / EN61010-1 (2010) : Sécurité / Safety		✓		✓
IEC / EN61010-2-020 (2006) : Sécurité / Safety		✓		✓
IEC / EN61010-2-101 (2015) : Sécurité / Safety		✓		✓
EN61326-1(2013) : Compatib. électromagn. / EMC compatibility		✓		✓
EN55011 2009/A1 (2010) Classe A : Perturbations / Emissions		✓		✓
EN ISO 14971 (2012) : Gestion des risques / Risk management		✓		✓
ISO 9001 (2015) : Gestion des risques / Risk management		✓		✓
ISO 13485 (2016) : Gestion des risques / Risk management		✓		✓
Caractéristiques principales (voir brochure) / Main specifications (see brochure for full specification)				
 Rotors Swing-out / Swing-out rotors	Capacité max. / Max. capacity	rotor RXN-150	4X150 ml	
	RPM max.	rotor RXN-150	4700 rpm	4700 rpm
	ACR max / Max. RCF	rotor RXN-150	3725 g	3725 g
 Rotors Microplaques Microplate rotors	Capacité max. / Max. capacity	rotor RHDWN-150	2x3 microplaque 2x3 microplates	
	RPM max.	rotor RHDWN-150	4700 rpm	4700 rpm
	ACR max / Max. RCF	rotor RHDWN-150	2618 g	2618 g
 Rotors Angulaires / Fixed angle rotors	Capacité max. / Max. capacity	rotor RFA6-50	6X50 ml	
	RPM max.	rotor RFA6-50	7600 rpm	7600 rpm
	ACR max / Max. RCF	rotor RFA6-50	8096 g	8096 g
Confinement biologique / Biocontainment		✓		
Dimensions & poids / Dimensions & Weight				
Dimensions (HxLxD) / Dimensions (HxWxD)		28 x 36 x 45 cm		29 x 44 x 72 cm
Dimensions emballage (HxLxD) / Package dimension (HxWxD)		49 x 57 x 66 cm		50 x 65 x 93 cm
Hauteur couvercle ouvert / Opened lid height		69 cm		72 cm
Poids net / Weight unpacked		40 Kg		70 Kg
Poids emballé / Weight packed		50 kg		80 kg



Description de la centrifugeuse / Centrifuge description

Référence / Reference			
Ecran haute luminosité 4.7" 4.7" high contrast screen		✓	
Molette + Touche Tactile Knob + Tactile Touch		Tactile	
Contrôle par microprocesseur / Microprocessor control		✓	
Reconnaissance automatique du rotor / Automatic rotor recognition		✓	
Détection de balourd / Imbalance detection		Auto-apprentissage environnement de travail - Mesure continue de la vibration / Working area auto-calibration - Continuous vibration measurement	
Mode économie d'énergie / Energy saving mode		Mode "Postcool" désactivable / Desactivable "Postcool" mode	
Fermeture motorisée du couvercle / Motorized lid closing		✓	
Durées de cycle / Cycle duration		10 s à 99h : 59 min : 59 s / Cycle continu / Impulsion 10 s to 99h : 59 min : 59 s / Continuous cycle / Pulse	
Unités de température / Temperature units		°C / °F	
Chambre de centrifugation / Centrifugation chamber		Inox	
Densité max. / Max. density		1.2 g / cm <sup>3</sup>	
Moteur à induction sans charbon / Brushless induction motor		✓	
Précision de vitesse / Speed accuracy		± 0.5%	
Nombre de programmes / Programs number	99		99+2
Fonction Pulse / Pulse (short run)		✓	
Pentes d'accélération & de freinage Acceleration & Braking slopes		10 & 10	
Décélération libre / Brakeless mode		✓	
Système de réfrigération / Cooling system		Ventilation / Ventilation device	Sans CFC / Without CFC
Plage de réglage en température / Range of setting temperature		N/A	-10°C → +40°C
Fonction de pré-refroidissement Precool function		N/A	✓
Précision en température / Temperature accuracy		N/A	+/- 2°C
Dissipation de chaleur maximale / Heat dissipation		1364 BTU/h	2729 BTU/h
Niveau sonore max. / Max. noise		≤ 58 dB(A)	≤ 54 dB(A)