

AFI presents
THE GENERATION

LIA

MICRO CENTRIFUGES

From Experience comes Excellence



2022



UNIQUE FRENCH MANUFACTURER

AFI Centrifuge, the only French manufacturer based in Château-Gontier in FRANCE, has been designing and manufacturing innovative centrifuges since 2009. AFI centrifuges have been designed to meet the needs and requirements of medical analysis laboratories, research laboratories, veterinary laboratories, hospitals, etc.

Offering a wide variety of rotors and accessories, the user will have at his disposal all the solutions to meet the required protocols. Available in both ventilated and refrigerated versions, AFI centrifuges are designed to be used with all types of tubes, vials and bottles available on the market.

With more than 20 years of experience in the field of biomedical engineering, electronics and electromechanics, AFI presents today a wide range of versatile and innovative centrifuges



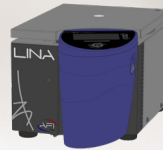
Philippe LE GUYADER



CENTRIFUGES RANGE



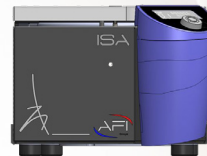
LIA
Micro Centrifuges*
Mini, Micro & Labo



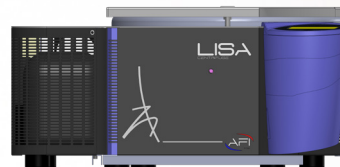
LINA
Research Centrifuge
Micro & multifonction



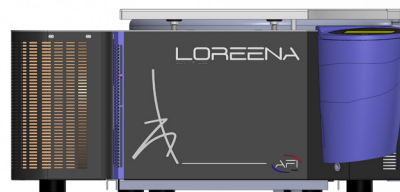
SIRENA
Centrifuge **MultiLab**
0.6 L



ISA
Clinical centrifuge
0.6 L



LISA
Centrifuge **MultiLab**
1.0 L à 2.5 L



LOREENA
Centrifuge **MultiLab**
1.6 L à 4 L



KATRINA
High Capacity Centrifuge
6 L à 8 L

REGINA
High Capacity Centrifuge
12 L

LIA

Rotor 24 micro tubes
15 000 Rpm/ 21 380 x g
Ventilated & Refrigerated
8 rotors

LINA

Rotor 48 micro tubes
Rotor 6x 50mL
Rotor 6 Micro plates
23 000 Rpm/ 39 625x g
Ventilated & Refrigerated
11 rotors

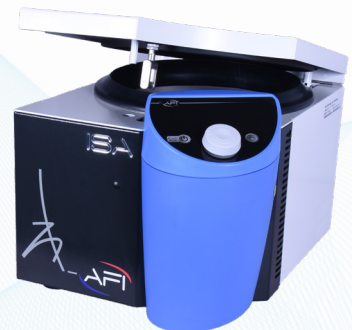
SIRENA

24-36 tubes 5/7 mL
6x 100mL
18 000 Rpm/ 31514 x g
Refrigerated
Interactive display
Touch screen, 99 programs,
17 rotors

ISA

40 tubes 5/7 mL
6700 Rpm/ 6324 xg
Ventilated & Refrigerated
Touch Screen, 99 programs,
11 rotors

Micro
Research centers / Veterinaire



Performance
Research centers/ Universities

Compact
Small laboratories

High Capacity
Blood bank / Industry



KATRINA

12x Bags 500mL / 4x 2 Liters

4900 Rpm/ 7301 x g

Refrigerated Floor

Interactive communication, Touch screen,
Integral, 6 Rotors



LOREENA

108- 200 tubes 5/7 mL / 12x 50 mL

16000 Rpm/ 28 335x g

Ventilated & Refrigerated & Floor

Interactive communication,
Click Spin, Touch Screen,
15 Rotors



LISA

60-92 tubes 5-7 mL/ 8x100mL

18 000 Rpm/ 31514 x g

Ventilated & Refrigerated

Interactive Communication, Click Spin, Touch
Screen, 18 Rotors

Routine
Hospitals/ Medical analysis Laboratories

Groups

LIA MINI

Mini Centrifuge BIOLOGY-LINE

Mini and compact

The LIA mini centrifuge is very compact and can be placed on every bench. This way each station will be equipped with its own centrifuge.

Mini and powerful

The LIA mini centrifuge with its high speed of 15000 Rpm/ 15100 x g offers an optimal solution for molecular biological separations.

Mini and full option

The LIA mini centrifuge, despite its small size, has been designed as a large centrifuge. It will provide you with everything you need to make your everyday life easier. The LCD display, the automatic rpm / x g converter as well as all safety features such as automatic door locking, overspeed detection, overheating detection, automatic internal diagnostics are available.



Centrifuge Description	
AFI-MINIV-E	LIA Mini Centrifuge Ventilated
Specifications	Angular Rotor
Max Speed	15000rpm
Max RCF	15100g
Max Loading	12x 2ml
Dim. (HxWxD)	14x25.5x24.5 cm
Weight	6kg

FIXED ANGULAR ROTORS







Accessories selection guide



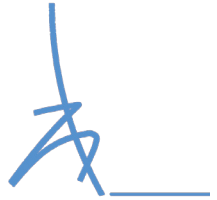
Angular rotor 12x2ml - 45° - Sealed



Model	V
Max Capacity	12 x 2ml
Angle	45°
RPM Max	15 000
ACR Max	15 100



			
Tubes			
Capacity (ml)	1,5-2	0,2	0,5
∅ x L (mm)	11x38	6x18	8x30
Tubes per adapter / rotor	12	1 12	1 12
Accessories			
Hole ∅ X L(mm)	11,2x40,5		8,3x39
Radius	60	58	58
Ref.	AFI-MINI12-2	AFI-M2R02*	AFI-M2R05*

* Set of 12



Spécifications - Specifications			
Modèle - Model	Ventilé - Ventilated		
Centrifugeuse de paillasse Benchtop centrifuge			
Référence - Reference	AFI-MINI-E		
Caractéristiques électriques - Electrical specifications			
Tension nominale - Nominal voltage (+/- 10%)	230 V		
Fréquence - Frequency	50 / 60 Hz		
Puissance alimentation max. - Power max.	100 W		
Conformité aux directives Européennes - Compliance with European directives			
Certification CE CE Certification	✓		
Caractéristiques principales (voir brochure) - Main specifications (see brochure for full specification)			
 Rotors Angulaires Fixed angle rotors	Capacité max. Max. capacity	Rotor AFI-MINI12-2	12x 2 ml
	RPM max.		15000 rpm
	ACR max Max. RCF		15100 g
Couvercle - Lid	✓		
Dimensions & poids - Dimensions & Weight			
Dimensions (HxLxL) - Foot print Dimensions (HxWxD)	14x24.5x25.5 cm		
Dimensions emballage (HxLxL) - Package dimension (HxWxD)			
Hauteur couvercle ouvert - Opened lid height			
Poids net - Weight unpacked	6 Kg		
Poids emballé - Weight packed	kg		
Description de la centrifugeuse / Centrifuge description			
Ecran LCD LCD screen	✓		
Commandes Commands	Molette + Touches tactiles Knob + Tactiles Buttons		
Contrôle par microprocesseur Microprocessor control	✓		
Fonctions de sécurité Safety devices	Verrouillage couvercle / Détection sur-vitesse / Détection sur-température / Auto Diagnostique Door interlock / Over-speed detection / Over-temperature detection / Automatic internal diagnosis		
Durées de cycle Cycle duration	30 s à 99mn continues 30s to 99mn Continuous		
Unités de température Temperature units	°C / °F		
Chambre de centrifugation Centrifugation chamber	Inox		
Densité max. Max. density	1.2 g / cm ³		
Moteur à induction sans charbon Brushless induction motor	✓		
Précision de vitesse Speed accuracy	± 20 rpm		
Fonctions Avancées Advance Features	Choix vitesse-RCF / Fonction pulse / Alertes sonores Speed/RCF switch / Short time run function / sound alert function		
Décélération libre Brakeless mode	✓		
Niveau sonore max. Max. noise	≤ 54dB		



Centrifuge BIOLOGY-LINE

Better results and more samples in less time.

Speed rates up to 15 000 Rpm and with 21 380 RCF accommodate a high number of samples to increase efficiency and throughput in your lab.

Wide range of capabilities.

Four rotors are optional complete with 24 place 1.5/2.0mL tubes, bigger 5.0mL, smaller 0.2mL and 0.5mL tubes with the use of adapters. Rotor of PCR 8x 4 is also available

Powerful cooling system for precise temperature control

Pre-cooling program ensures optimal protection of the sample before warming. This is ideal for temperature sensitive samples in molecular biology and R&D applications.



Centrifuge Description	
AFI-MICROV-E	LIA Centrifuge Ventilated + Angular rotor 24x2 ml
AFI-MICROR-E	LIA Centrifuge Refrigerated + Angular rotor 24x2 ml
AFI-MICROV-E-PCR	LIA Centrifuge Ventilated + Angular rotor PCR
AFI-MICROR-E-PCR	LIA Centrifuge Refrigerated + Angular rotor PCR
AFI-MICROV-E-H	LIA Centrifuge Ventilated + Hematocrit rotor
Specifications	Angular Rotor
Max Speed	15000rpm
Max RCF	21380g
Max Loading	18x 5ml
Dim. (HxWxD)	Ventilated : 27x28x37 cm Refrigerated : 23x33x55 cm
Pack dim.	V : 35x44x45 cm / R : 35x50x65 cm
Weight	V : 12kg / R : 30kg



FIXED ANGULAR ROTORS

Accessories selection guide



Angular rotor 24x2ml - 45° - Sealed

Model	V	R
Max Capacity	24 x 2ml	
Angle	45°	
RPM Max	15 000	15 000
ACR Max	21 380	21 380



Tubes

Capacity (ml)	1,5-2	0,2	0,5
∅ x L (mm)	11x38	6x18	8x30
Tubes per adapter / rotor	24	1 24	1 24

Accessories

Hole ∅ X L (mm)	11,2x40,5		8,3x39
Radius	85	83	83
Ref.	AFI-MICRO24-2	AFI-M2R02*	AFI-M2R05*

* Set of 24

Angular rotor 4x PCR8 - 45° - Sealed

Model	V	R
Max Capacity	32 x 0,2ml	
Angle	45°	
RPM Max	15 000	15 000
ACR Max	21 380	21 380



Tubes

Capacity (ml)	8x0,2
∅ x L (mm)	6x22
Tubes per adapter / rotor	4

Accessories

Hole ∅ X L (mm)	6,5x20,4
Radius	85
Ref.	AFI-MICROPCR8-4

FIXED ANGULAR ROTORS

Accessories selection guide

Angular rotor 12x5ml (micro conical bottom) - 45° - Sealed

Model	V	R
Max Capacity	12 x 5ml	
Angle	45°	
RPM Max	15 000	15 000
ACR Max	21 380	21 380



Tubes

Capacity (ml)	5
Ø x L (mm)	16,5x56
Tubes per adapter / rotor	12

Accessories



Hole Ø X L (mm)	17,5x44
Radius	85

Ref. AFI-MICRO12-5

* Set of 12

Angular rotor 18x5ml (micro round bottom) - 45° - Sealed

Model	V	R
Max Capacity	18 x 5ml	
Angle	45°	
RPM Max	15 000	15 000
ACR Max	21 380	21 380



Tubes

Capacity (ml)	5
Ø x L (mm)	13,5x56
Tubes per adapter / rotor	18

Accessories



Hole Ø X L (mm)	13,7x39
Radius	85

Ref. AFI-MICRO18-5



* Set of 18

Angular rotor 36x0,5ml - 45° - Sealed

Model	V	R
Max Capacity	36 x 0,5ml	
Angle	45°	
RPM Max	15 000	15 000
ACR Max	21 380	21 380



Tubes

		
Capacity (ml)	0,5	0,2
∅ x L (mm)	8x36	6x18
Tubes per adapter / rotor	36	1 36

Accessories

		
Hole ∅ X L (mm)	8,2x29,3	
Radius	85	83


HEMATOCRIT CENTRIFUGE

LIA ventilated + Hematocrit Rotor - Sealed


Model	V
Max Capacity	24
Angle	90°
RPM Max	12 000
ACR Max	18 620



Tubes

	
Capacity (ml)	-
∅ x L (mm)	1,6x76
Tubes per adapter / rotor	24

Accessories

		
Hole ∅ X L (mm)		2,6x80
Radius		116




Ref.

AFI-MICROV-E-H



DATA SHEET



Spécifications - Specifications			
Modèle - Model		Ventilé - Ventilated	Réfrigéré -Refrigerating
Centrifugeuse de paillasse <i>Benchtop centrifuge</i>			
Référence - Reference		AFI-MICROV-E	AFI-MICROR-E
Caractéristiques électriques - Electrical specifications			
Tension nominale - Nominal voltage (+/- 10%)		230 V	230 V
Fréquence - Frequency		50 / 60 Hz	50 / 60 Hz
Puissance alimentation max. - Power max.		200 W	400 W
Conformité aux directives Européennes - Compliance with European directives			
Certification CE CE Certification		✓	✓
Caractéristiques principales (voir brochure) - Main specifications (see brochure for full specification)			
Rotors Angulaires <i>Fixed angle rotors</i> 	Capacité max. Max. capacity	Rotor AFI-MICRO18-5	18 x 5 ml
	RPM max.	Rotor AFI-MICRO18-5	15000 rpm
	ACR max Max. RCF		21380 g
Confinement biologique - Biocontainment		✓	
Dimensions & poids - Dimensions & Weight			
Dimensions (HxLxL) - Foot print Dimensions (HxWxD)		27 x 28 x 37 cm	28 x 33 x 55 cm
Dimensions emballage (HxLxL) - Package dimension (HxWxD)		35 x 44 x 45 cm	35 x 50 x 65 cm
Hauteur couvercle ouvert - Opened lid height		48 cm	48 cm
Poids net - Weight unpacked		12 Kg	30 Kg
Poids emballé - Weight packed		15 kg	34 kg

Description de la centrifugeuse / Centrifuge description

Référence - Reference	AFI-MICROV-E	AFI-MICROR-E
Ecran L <i>LCD screen</i>		✓
Commandes <i>Commands</i>	Molette + Touches tactiles <i>Knob + Tactiles Buttons</i>	
Contrôle par microprocesseur <i>Microprocessor control</i>		✓
Reconnaissance automatique du rotor <i>Automatic rotor recognition</i>		✓
Détection de balourd <i>Imbalance detection</i>		✓
Durées de cycle <i>Cycle duration</i>	30 s à 99mn continues <i>30s to 99mn Continuous</i>	
Unités de température <i>Temperature units</i>	°C / °F	
Chambre de centrifugation <i>Centrifugation chamber</i>	Inox	
Densité max. <i>Max. density</i>	1.2 g / cm ³	
Moteur à induction sans charbon <i>Brushless induction motor</i>		✓
Précision de vitesse <i>Speed accuracy</i>	± 20 rpm	
Fonction Pulse <i>Pulse (short run)</i>		✓
Décélération libre <i>Brakeless mode</i>		✓
Système de réfrigération <i>Cooling system</i>	Ventilation <i>Ventilation device</i>	Sans CFC <i>CFC free</i>
Plage de réglage en température <i>Range of setting temperature</i>	N/A	-20°C → +40°C
Fonction de pré-refroidissement <i>Precool function</i>	N/A	✓
Niveau sonore max. <i>Max. noise</i>	≤ 64 dB(A)	≤ 56 dB(A)

Clinical Centrifuge LABORATORY-LINE

A compact centrifuge

The LIA Labo centrifuge is very compact and can be placed on every bench. In this way each station will be equipped with its own centrifuge.

Optimized capacity

The LIA Labo is supplied with an angled rotor that can hold up to 12 5 and 10 mL tubes or 8 15 mL tubes.

A dedicated centrifuge

Widely used in clinical laboratories, small laboratories and veterinary laboratories to centrifuge blood and urine samples.



Centrifuge Description	
AFI-LABOV-E	LIA Labo Centrifuge Ventilated
Specifications	Angular Rotor
Max Speed	4500rpm
Max RCF	2490g
Max Loading	12x 5ml, 10ml
Dim. (HxWxD)	22x30x35.5 cm
Weight	6kg

FIXED ANGULAR ROTORS






Accessories selection guide





Angular rotor 12x5ml/10ml & 8x15ml - 45° - Sealed



Model	V	
Max Capacity	12 x 5ml / 10mL	8x 15mL
Angle	45°	
RPM Max	4 500	
ACR Max	2 490	

Tubes				
Capacity (ml)		1,6-7	10	15
Ø x L (mm)		13x75 / 100	16x100	17x120
Tubes per adapter / rotor		12	12	8
Accessories				
			-	-
Hole Ø X L(mm)				
Radius		110	110	110
Ref.	included	included	-	-

Spécifications - Specifications								
Modèle - Model	Ventilé - Ventilated							
Centrifugeuse de paillasse Benchtop centrifuge								
Référence - Reference	AFI-LABOV-E							
Caractéristiques électriques - Electrical specifications								
Tension nominale - Nominal voltage (+/- 10%)	100V – 240 V							
Fréquence - Frequency	50 / 60 Hz							
Puissance alimentation max. - Power max.	70 W							
Conformité aux directives Européennes - Compliance with European directives								
Certification CE CE Certification	✓							
Caractéristiques principales (voir brochure) - Main specifications (see brochure for full specification)								
 Rotors Angulaires Fixed angle rotors	<table border="1"> <tr> <td>Capacité max. Max. capacity</td> <td rowspan="3">inclus</td> <td>12x 5 ml, 10ml</td> </tr> <tr> <td>RPM max.</td> <td>4500 rpm</td> </tr> <tr> <td>ACR max Max. RCF</td> <td>2490 g</td> </tr> </table>	Capacité max. Max. capacity	inclus	12x 5 ml, 10ml	RPM max.	4500 rpm	ACR max Max. RCF	2490 g
Capacité max. Max. capacity	inclus	12x 5 ml, 10ml						
RPM max.		4500 rpm						
ACR max Max. RCF		2490 g						
Couvercle - Lid	✓							
Dimensions & poids - Dimensions & Weight								
Dimensions (HxLxL) - Foot print Dimensions (HxWxD)	22x30x35.5 cm							
Dimensions emballage (HxLxL) - Package dimension (HxWxD)								
Hauteur couvercle ouvert - Opened lid height								
Poids net - Weight unpacked	6 Kg							
Poids emballé - Weight packed	kg							
Description de la centrifugeuse / Centrifuge description								
Ecran LCD LCD screen	✓							
Commandes Commands	Molette + Touches tactiles Knob + Tactiles Buttons							
Contrôle par microprocesseur Microprocessor control	✓							
Fonctions de sécurité Safety devices	Verrouillage couvercle / Détection sur-vitesse / Détection sur-température / Auto Diagnostique Door interlock / Over-speed detection / Over-temperature detection / Automatic internal diagnosis							
Durées de cycle Cycle duration	30 s à 99mn continues 30s to 99mn Continuous							
Unités de température Temperature units	°C / °F							
Chambre de centrifugation Centrifugation chamber	Inox							
Densité max. Max. density	1.2 g / cm ³							
Moteur à induction sans charbon Brushless induction motor	✓							
Précision de vitesse Speed accuracy	± 20 rpm							
Fonctions Avancées Advance Features	Choix vitesse-RCF / Fonction pulse / Alertes sonores Speed/RCF switch / Short time run function / sound alert function							
Décélération libre Brakeless mode	✓							
Niveau sonore max. Max. noise	≤ 54dB							



M A D E I N F R A N C E

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*Scan me to discover
AFI catalogs*



* If necessary or useful without affecting the essential characteristics of a model, the technical and stylistic characteristics may be modified without prior notice from the manufacturer.