

AFI presents
THE GENERATION

LOREENA

MULTILAB CENTRIFUGES 4I

From Experience comes Excellence



2025

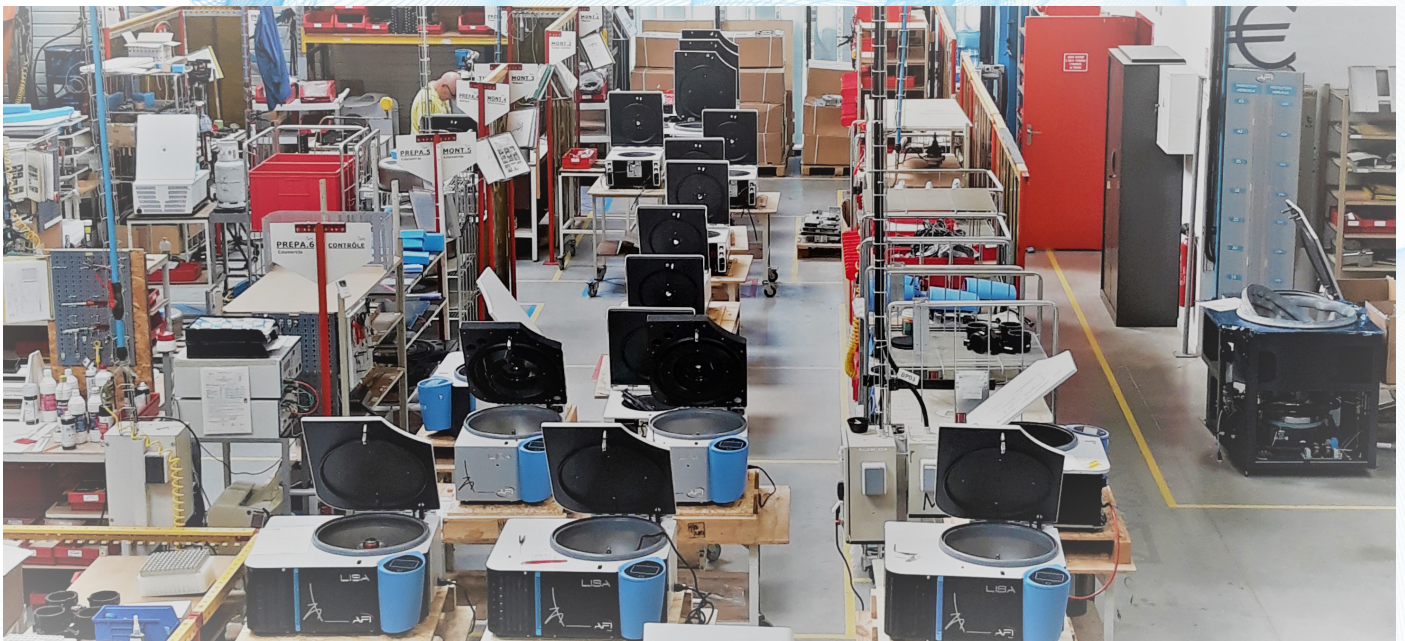


UNIQUE FRENCH MANUFACTURER

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

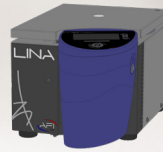


Philippe LE GUYADER

CENTRIFUGES RANGE



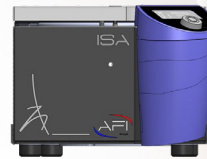
LIA
Micro Centrifuges*
Mini, Micro & Labo



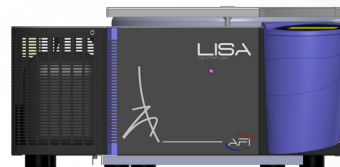
LINA
Research Centrifuge
Micro & multifonction



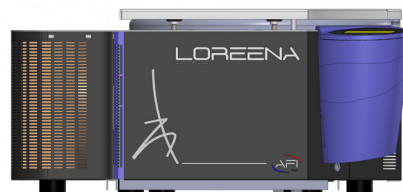
SIRENA
Centrifuge **MultiLab**
0.6 L



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
12 L

REGINA
High Capacity Centrifuge
16 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 & **Reversible**
Touch Screen, 99 programs,
11 rotors

Micro
Research centers / Veterinaire



Performance
Research centers/ Universities

Compact
Small laboratories

High Capacity
Blood bank / Industry



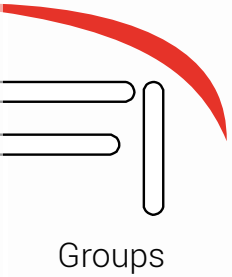
KATRINA

12 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, **Reversible**

Interactive communication,
Click Spin, Touch Screen,
15 Rotors



LISA

60-92 tubes 5-7 mL/ 8x100mL

18 000 Rpm/ 31514 x g

Ventilated, Refrigerated & **Reversible**

Interactive Communication, Click Spin, Touch
Screen, 18 Rotors

Routine
Hospitals/ Medical analysis Laboratories

LOREENA

Multilab Centrifuge ROUTINE-LINE

MINIMIZED FOOT PRINTS, MAXIMIZED ERGONOMICS

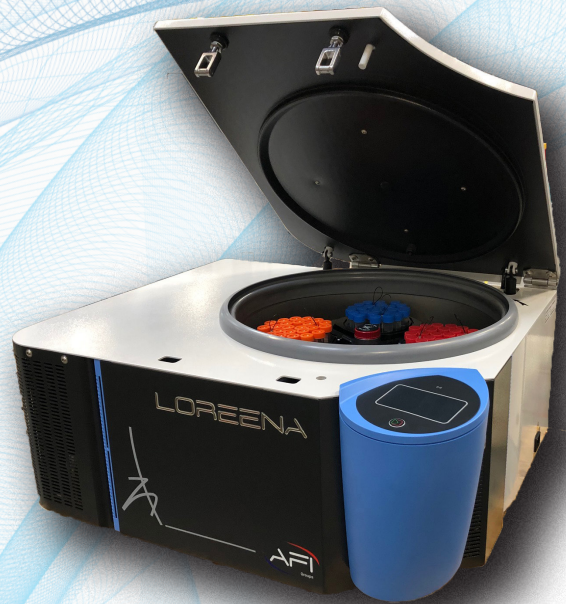
Very compact and with a small footprint **LOREENA** will help you to save space in your laboratory. The floor machines have a suitable height for a comfortable use. By design, a front foot passage allows an approach as close as possible to the tank, thus minimizing back curvatures during sample loading/unloading.

ROUTINE LINE

With its large capacity (200 tubes 5/7mL) and high speeds, **LOREENA** brings you remarkable qualities for the routine processing of your samples. Safe, simple and comfortable operation on a daily basis.

VERSATILITY AND HIGH CAPACITY

Thanks to its versatility and high capacity, **LOREENA** can also guarantee optimal centrifugation for Biochemistry with its 4 x 1 Liter bottles and its various standard tube adapters.



Centrifuge	Description	
AFI-C300R-E	LOREENA Centrifuge Refrigerated	
AFI-C300RF-E	LOREENA Centrifuge Refrigerated-Floor Model	
AFI-C300RH-E	LOREENA Centrifuge Heated	
AFI-C300RFH-E	LOREENA Centrifuge Heated-Floor Model	
Specifications	Swing-out rotor	Angular Rotor
Max Speed	4600rpm	16000rpm
Max RCF	4731g	28198g
Max Loading	4x1000ml	6x250ml
T° Range	-20°C/+40°C	
Dim. (HxWxD)	35x77x64cm (Floor Model 83x57x68cm)	
Pack dim.	54x80x78cm (Floor Model 100x74x78cm)	
Weight	145kg (Floor Model 170kg)	



Reversible centrifuge Refrigerated & heated

Thanks to its red electronic block, you'll immediately notice the new range of heated centrifuges with reversible technology.

Its reversible refrigeration unit maintains a constant & precise temperature for protocols at 37°C or 4°C (+/- 2°C)

Its ultra-fast temperature rise (less than 9 minutes from ambient to 37°C) and fall (less than 6 minutes from ambient to 4°C) mean it can be used for a wide variety of applications in medical analysis laboratories (cryoglobulins), cosmetics laboratories and industry.

Finally, the pre-cooling and pre-heating functions are programmed as standard at 4°C and 37°C.

However, these can be modified to create your own programmes. (e.g. pre-cooling to 10°C or pre-heating to 30°C)

More efficient reversible technology, without heating resistor.



Centrifuge	Description	
AFI-C300RH-E	LOREENA Centrifuge Heated	
AFI-C300RFH-E	LOREENA Centrifuge Heated-Floor Model	
Specifications	Swing-out rotor	Angular Rotor
Max Speed	4600rpm	16000rpm
Max RCF	4731g	28198g
Max Loading	4x1000ml	6x250ml
T° Range	-20°C/+40°C	
Dim. (HxWxD)	35x77x64cm (Floor Model 83x57x68cm)	
Pack dim.	54x80x78cm (Floor Model 100x74x78cm)	
Weight	145kg (Floor Model 170kg)	



ULTRA FAST temperature rise
< 9 mn from 20°C to 37°
< 7 mn from 20°C to 4°C

Our best seller centrifuge since 2017



NEW CLICK SPIN



The Best flexibility system to change accessories without tool

INTERNATIONAL AUTOMATIC ELECTRICAL CORRECTION



International automatic correction of the electrical network. Guarantees stability of the machine's performance.

Its major assets

6 reasons

to choose it

INTERACTIVE DISPLAY



With its large touch screen and icons, LISA will help you to get started with the machine.

A real pleasure of simplicity.



You too will be amazed by this ultra-quiet centrifuge. Let yourself be surprised!

ULTRA SILENT CENTRIFUGE

Centrifuge's electronic functions integrated into a front central unit. Plug & play system guaranteeing a fast and efficient intervention

THE BLUE BOX



You can set up your own programs, name it, lock it, choose slope rate, set up your own user preferences.

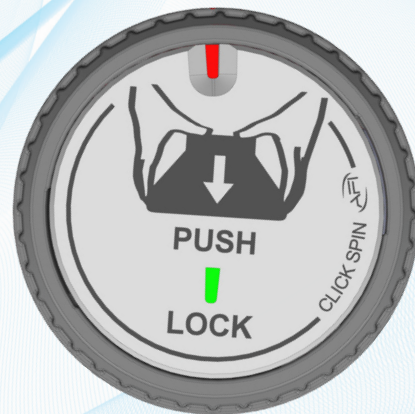
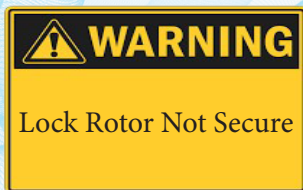
CUSTOMIZABLE PROGRAM

NEW CLICK SPIN with visual lock indicator



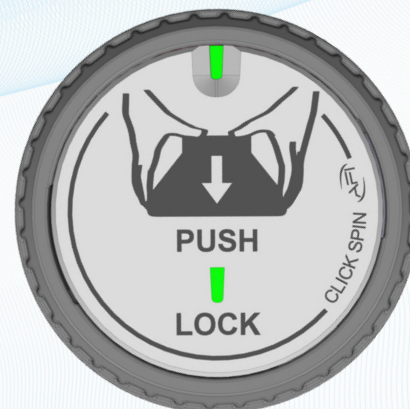
Check:

- The red light indicates that the rotor is not securely locked

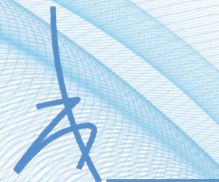


Ready:

- The green light indicates that the rotor is successfully locked => Safe centrifugation



- Click Spin available on Multilab centrifuges (SIRENA, LISA, LOREENA)



	SMALL	MEDIUM	LARGE
Ref.	AFI-MT550	AFI-MT750	AFI-MT850
Dimensions wxhxd (mm)	550x560x700	750x560x700	850x560x700
	2 tiroirs, 4 roulettes avec frein / 2 drawers, 4 wheels with brake		
ELLA	✓		
LINA V	✓		
LINA R	✓		
ISA V	✓		
ISA R	✓		
SIRENA	✓		
LISA V	✓		
LISA R		✓	
LOREENA V		✓	

We offer you a range of **AFI** furniture dedicated to your centrifuges.

These furniture have been designed to last.
They are reinforced with a metal frame to ensure robustness.

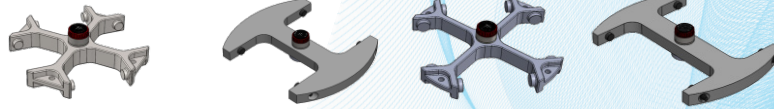
They are equipped with 4 castors with brakes for more mobility and flexibility in your laboratory.

The large drawers allow you to place all your accessories.

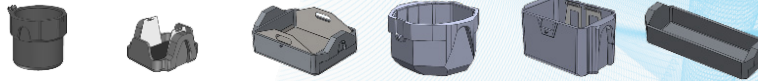
These furniture are for you !

Swinging bucket rotors

Accessories selection guide



LOREENA ACCESSORIES	AFI-RX750	AFI-RHD3	AFI-RX1000	AFI-RH-RA
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LOREENA ACCESSORIES	AFI-B750	AFI-BXDW3	AFI-BHD3	AFI-B1L	AFI-BXDW4	AFI-BH-RA
Max Capacity (ml)	4x750mL	20 Microplates	28 Microplates	4x 1000mL	24 Microplates	
Max Charge (gr)	1000	800	1500	1750	950	1500
Max Speed (rpm)	4 600	4 600	4 600	3 500	4 200	4 600
Max RCF (g)	4 731	3 856	3 880	2 821	3 826	3 643
Cavity dim (ØxD) or (WxLxD)	Ø102x105	94x132x57	135x175x46	128x135x100	90x132x88	90x259x46
Lid	✓		✓	✓	✓	
Acc/ Dec (s)	86 68	74 62		86 68	72 70	

Tubes	ml	Ø x L	AFI-B750	AFI-BXDW3	AFI-BHD3	AFI-B1L	AFI-BXDW4	AFI-BH-RA
	1,1-1,4	8x82	82	-	-	260	-	-
	1,5-2	11x38	224	-	-	200	-	-
	1,5-2	12,5x40	132	-	-	260	-	-
	1,3	10x45						
	1,6-5	13x75-100	108	-	96	200	-	-
	5-7	13x100	108	-	-	200	-	-
	2,6-4,9	13x81-106	108	-	-	200	-	-
	1,2-5	11x82-108	108	-	-	200	-	-
	4-8,5	15x91-108	84	-	-	156	-	-
	7-10	16x100	84	-	-	156	-	-
	10	21x90	52	-	-	92	-	-
	15	17x120	56	-	-	19 24*	-	-
	30	25x110	28	-	-	40	-	-
	30	25x110	20	-	-	56	-	-
	30	25x95	28	-	-	56	-	-
	50	29x115	24 28*	-	-	28	-	-
	50	29x115	24	-	-	40	-	-
	50	29x107	28	-	-	40	-	-
	80 AOR AFI-T-PPCO80AOR	38x105	16	-	-	24	-	-
	80 OAK 85 OAK	38x106	16	-	-	24	-	-
	80 100	44x100 127	8	-	-	16	-	-



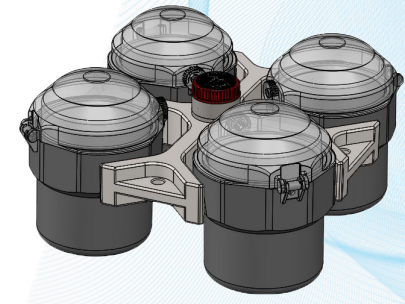
LOREENA ACCESSORIES	AFI-RX750	AFI-RHD3	AFI-RX1000	AFI-RH-RA		
LOREENA ACCESSORIES	AFI-B750	AFI-BXDW3	AFI-BHD3	AFI-B1L	AFI-BXDW4	AFI-BH-RA
Max Capacity (ml)	4x750mL	20 Microplates	28 Microplates	4x 1000mL	24 Microplates	
Max Charge (gr)	1000	800	1500	1750	950	1500
Max Speed (rpm)	4 600	4 600	4 600	3 500	4 600	4 600
Max RCF (g)	4 731	3 856	3 880	2 821	4 589	3 643
Cavity dim (ØxD) or (WxLxD)	Ø102x105	94x132x57	135x175x46	128x135x100	90x132x88	90x259x46
Lid	✓		✓	✓	✓	
Acc/ Dec (s)	86 68	74 62		86 68	72 70	

Bottles	ml	Ø x L	AFI-B750	AFI-BXDW3	AFI-BHD3	AFI-B1L	AFI-BXDW4	AFI-BH-RA
	150 FALCON	61x118	4	-	-	8	-	-
	200 FALCON	61x138	4	-	-	8	-	-
	200 AFI-B-PPCO200C	56x118	4	-	-	8	-	-
	200 NUNC/NALGENE	60x130	4	-	-	8	-	-
	200 AFI-B-PPCO200F	56x112	4	-	-	8	-	-
	250 CORNING	60x163	4	-	-	8	-	-
	250	65x115	4	-	-	8	-	-
	250 AFI-B-PPCO250F	62x122	4	-	-	8	-	-
	290 AFI-B-PPCO290F	62x137	4	-	-	8	-	-
	500 CORNING	96x148	4	-	-	4	-	-
	500 AFI-B-PPCO500F	98x114	4	-	-	4	-	-
	625 AFI-B-PPCO625F	92x130	4	-	-	4	-	-
	750 AFI-B-PPCO750F	92x130	4	-	-	4	-	-
	750 AFI-B-PPCO750FB	100x130	-	-	-	4	-	-
	950 AFI-B-PPCO950F	100x154	-	-	-	4	-	-
	Micro Plates		-	20	28	-	24	-
	Deep Well		-	4	4	-	4	-

* Unsealed

AFI-RX750

Adapters selection guide



Model	V*	R
Max Capacity	4 x 750ml	
Angle	90°	
RPM Max	4 500	4 600
ACR Max	4 528	4 731

Accessories



Ref.	AFI-RX750	AFI-B750	AFI-BXDW3	AFI-L750*
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*Bucket lids are highly recommended with ventilated model for optimum performance

Tubes

Capacity (ml)	1,1-1,4	1,5-2	1,5-2	1,3	1,6-7	2,6-4,9	1,2-3	4-8,5	7-10	10 CPT	10	15
Ø x L (mm)	8x82	11x38	12,5x40	10x45	13x75 100	13x81 106	11x82	15x91 108	16x100	16x125	21x90	17x120
Tubes per adapter / rotor	33 132	56 224	33 132	40 160	27 108		37 148	21 84		8 32 (L)	13 52	14 56

Adapter

Hole Ø x L (mm)	9x50	11,25x40	13x30	11x40	13,5x58	12,5x55	17x58	17x58	22x80	18x80
Radius	200	198	180	190	198	195	198	178	200	198
Max Charge (gr)	1000									
Ref.	AFI-3T1	AFI-3T2	AFI-3T2CRYO	AFI-3T1.3	AFI-3T5*	AFI-3T5S*	AFI-3T10		AFI-3T10C	AFI-3T15C

* For tube length > 80mm and ACR > 3000g, we preconise using adapter AFI-3T6 or AFI-3T6ST

Tubes

Capacity (ml)	15	30	30	50	50	50	50	50	50	80	80 100	150 200
Ø x L (mm)	17x120	25x110	25x110	29x115	29x115	29x115	29x115	29x115	29x107	38x110	44x100 127	61x118 138
Tubes per adapter / rotor	16 64	7 28	5 20	7 28	6 24	6 24	7 28	6 24	7 28	4 16	2 8	1 4

Adapter

Hole Ø x L (mm)	18x80	26x60	26x60	30x70	30x70	30x70	30x70	30x70	30x70	40x78	46x80	62x80
Radius	200	198	198	198	198	198	198	185/200	198	198	198	182
Max Charge (gr)	1000											
Ref.	AFI-3T15ST	AFI-3T30S	AFI-3T30C	AFI-3T50S	AFI-3T50SL	AFI-3T50CSL*	AFI-3T50C	AFI-3T50CL	AFI-3T50AOR	AFI-3T80AOR	AFI-3T100R	AFI-3T200CF

* For protocols < 3500g

Tubes

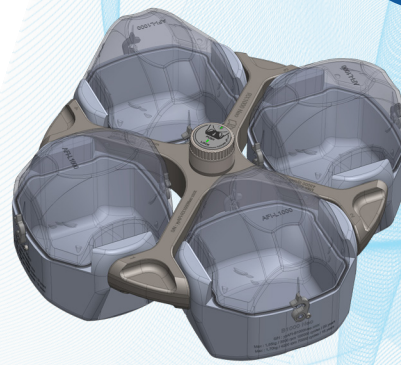
Capacity (ml)	200	200	200	250	250	250	290	500	500	625	750	750
Ø x L (mm)	56x118	60x130	56x112	60x163	65x115	62x122	62x137	96x148	98x114	92x130	98x152	100x130
Tubes per adapter / rotor	1 4	1 4	1 4	1 4	1 4	1 4		1 4	1 4	1 4	1 4	1 4

Adapter

Hole Ø x L (mm)	58x80	62x80	58x80	62x103	66x103	64x80	97x103	102x102	94x85	102x102	102x102
Radius	200	200	198	198	198	182	200	200	184	200	200
Max Charge (gr)	1000										
Ref.	AFI-3T200C	AFI-3T200CN	AFI-3T200F	AFI-3T250C	AFI-3T250G	AFI-3T290F	AFI-3T500C	-	AFI-3T625F	-	-

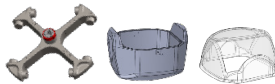
AFI-RX1000 NEO

Adapters selection guide



Model	V	R
Max Capacity	4 x 1000ml	
Angle	90°	
RPM Max	3 800	4 250
ACR Max	3 390	4 241

Accessories



Ref.	AFI-RX1000 NEO	AFI-B1000 NEO	AFI-L1000 NEO
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* Set of 4, possibility set of 2

Capacity (ml)	1,1-1,4	1,5-2	1,5-2	5 FACS	1,6-4	4-7	2,6-4,9	2,6-4,9	1,2-3	4-8,5	7-10	10 CPT	10	15	
∅ x L (mm)	8x82	11x38	12,5x40	12x75	13x75	13x100	13x81	13x106	11x82	15x91 108	16x100	16x125	21x90	17x120	
Tubes per adapter / rotor	75 300	100 400	122 488	58 232	50 200				75 300	39 156	16x100	15 60 (L) /	25 100	24 96	
Hole ∅ x L (mm)	9,5x50	11,25x40	13x30	12,5x 58	13,5x58				12,5x55	17x58		22x80	18x80		
Radius	210	195	190 / 138	193 / 133	196				192	195		200	206		
Max Charge (gr)	1750														
Ref.	AFI-ST1	AFI-ST2	AFI-ST2CRYO	AFI-ST4.5	AFI-ST5		AFI-ST5ST		AFI-ST10		AFI-ST10C	AFI-ST15C			

Capacity (ml)	30	30	50	50	50	50	80	85	80 100	150 200	200	200	200	250
∅ x L (mm)	25x110	25x110	29x115	29x115	29x115	29x107	38x110	38x110	44x100 127	61x118 138	56x118	56x112	60x130	60x141
Tubes per adapter / rotor	14 56	14 56	9 36	9 36	10 40	14 56	7 28	7 28	4 16	2 8	4 16	4 16	2 8	2 8
Hole ∅ x L (mm)	26x60	26x70	30x70	30x70	30x70	30x70	40x78	46x80	62x80	58x80	58x80	58x80	62x80	210
Radius	210	198	205	203	208	202	203	203	209	210	200	200	210	1750
Max Charge (gr)														
Ref.	AFI-ST30S	AFI-ST30C	AFI-ST50S	AFI-ST50CS*	AFI-ST50C	AFI-ST50AOR	AFI-ST80AOR	AFI-ST100R	AFI-ST200CF	AFI-ST200C	AFI-ST200F	AFI-ST250CN		

* For protocols < 3500g

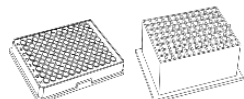
Capacity (ml)	250	250	290	500	500	500	625	750	750	950	1000
∅ x L (mm)	60x163	62x122	62x137	70x160	96x148	98x114	92x130	98x152	100x130	100x154	100/126x140
Tubes per adapter / rotor	2 8	2 8		1 4	1 4	1 4	1 4	1 4	1 4		1 4
Hole ∅ x L (mm)	62x103	64x80	72x80	97x103	100x102	94x85	100x102	102x102	102/128x80	210	195
Radius	210	201	210	210	207	207	207	210	210	195	195
Max Charge (gr)											
Ref.	AFI-ST250C	AFI-ST290F	AFI-ST500F	AFI-ST500C	AFI-ST750F	AFI-ST625F	AFI-ST750F	AFI-ST950F	AFI-ST1000	AFI-STMP	

MICROPLATES

Accessories selection guide

AFI-RX750+ AFI-BXDW3 : 20 MICROPLATES

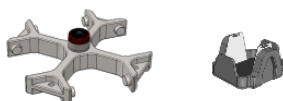
Model	V	R
Max Capacity	-	-
Angle	90°	
RPM Max	4 500	4 600
ACR Max	3 690	3 856



Microplate

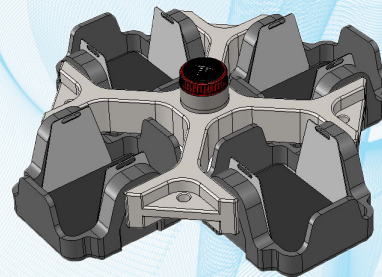
Capacity (ml)	-	-	-	-
Max Height (mm)	-	65	65	-
Tubes per adapter / rotor	-	5 20	1 4	-

Accessories



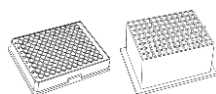
Hole Ø x L (mm)	-	-	-
Radius	-	163	-
Max Charge (gr)	-	800	-
Ref.	AFI-RX750	AFI-BXDW3*	

* Set of 4



AFI-RX750+ AFI-BXDW3L + AFI-HLD3L-MP :12 MICROPLATES SEALED

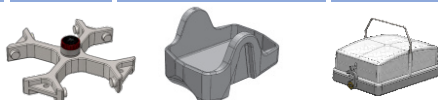
Model	V	R
Max Capacity	12 MPT	
Angle	90°	
RPM Max	4 500	4 600
ACR Max	3 690	3 856



Microplate

Capacity (ml)	-	-	-	-
Max Height (mm)	-	65	65	-
Tubes per adapter / rotor	-	3 12	1 4	-

Accessories



Hole Ø x L (mm)	-	-	-
Radius	-	163	-
Max Charge (gr)	-	800	-
Ref.	AFI-RX750	AFI-BXDW3L	AFI-HLD3L-MP

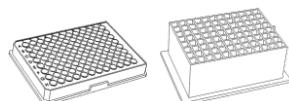
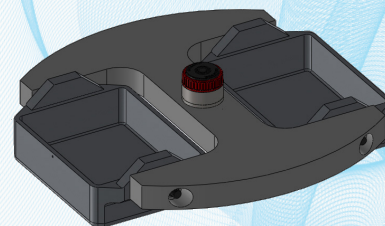


Easy to transport thanks to the carrying handle.

Lighter as sealed lid is in the adapter NOT in the bucket.

AFI-RHD3+ AFI-BHD3 : 28 MICROPLATES SEALED

Model	V	R
Max Capacity	-	-
Angle	90°	
RPM Max	4 500	4 600
ACR Max	3 713	3 880



Microplate

	V	R	
Capacity (ml)	-	-	-
Max Height (mm)	-	95	95
Tubes per adapter / rotor	-	10 20	2 4

Accessories



	V	R
Hole \varnothing x L (mm)	-	-
Radius	-	164
Max Charge (gr)	-	1500

Ref.	AFI-RHD3	AFI-BHD3*
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* Set of 2

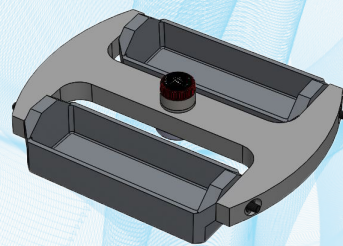
RACK

Accessories selection guide



AFI-RH-RA + AFI-BH-RA

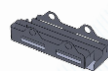
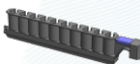
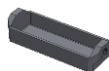
Model	V	R
Max Capacity	-	-
Angle	90°	
RPM Max	4 500	4 600
ACR Max	3 486	3 643



Racks

			WERFEN	WERFEN
Capacity (ml)	-	-	-	-
∅ x L (mm)	-	-	-	-
Rack per adapter / rotor	-	-	4 8	4 8

Accessories

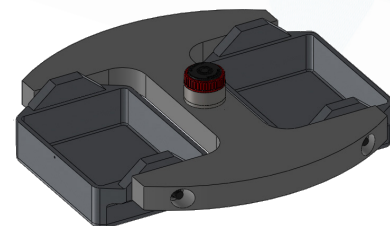


Hole ∅ x L (mm)	-	-	-	-
Radius	-	154	-	-
Max Charge (gr)	-	1500	-	-
Ref.	AFI-RH-RA	AFI-BH-RA	AFI-SH-RA	AFI-SH-RA-H

* Set of 2

AFI-RHD3+ AFI-BHD3

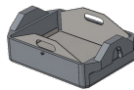
Model	V	R
Max Capacity	-	-
Angle	90°	
RPM Max	4 500	4 600
ACR Max	3 713	3 880



Tubes

			ABBOTT	ABBOTT	ABBOTT	STAGO
Capacity (ml)	-	-	-	-	-	-
∅ x L (mm)	-	-	-	-	-	-
Tubes per adapter / rotor	-	-	-	-	-	-

Accessories

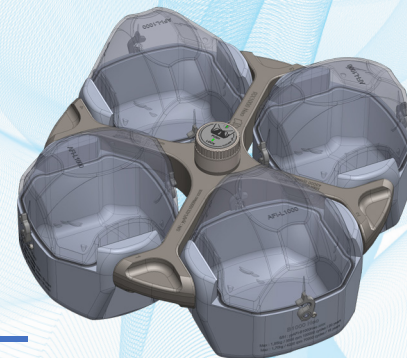




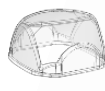
Hole ∅ x L (mm)	-	-	-	-	-	-
Radius	-	164	-	-	-	-
Max Charge (gr)	-	1900	-	-	-	-
Ref.	AFI-RHD3	AFI-BHD3	ON REQUEST	ON REQUEST	ON REQUEST	ON REQUEST

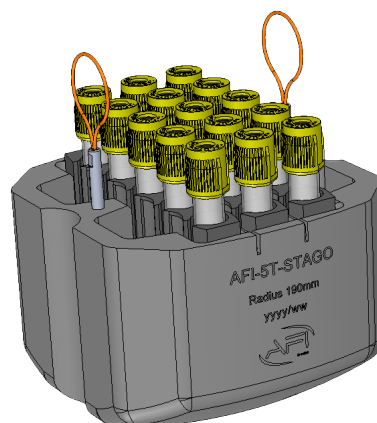
* Set of 2

AFI-RX1000 NEO + AFI-B1000 NEO

Model	V	R
Max Capacity	-	-
Angle	90°	
RPM Max	3 800	4 250
ACR Max	3 390	4 241

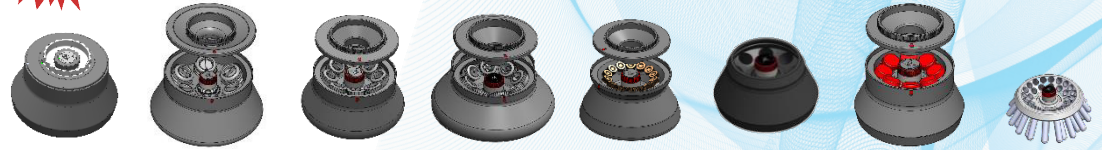


Racks			STAGO	OTHER	
Capacity (ml)	-	-	-	-	
∅ x L (mm)	-	-	-	-	
Rack per adapter / rotor	-	-	3 12	-	
Accessories					
Hole ∅ x L (mm)	-	-	-	-	
Radius	-	206	-	-	
Max Charge (gr)	-	1750	-	-	
Ref.	AFI-RX1000 NEO	AFI-B 1000 NEO	AFI-L1000 NEO	AFI-5T STAR	ON REQUEST



FIXED ANGULAR ROTORS

Accessories selection guide








LOREENA ACCESSORIES	AFI-RA8-50 CSL	AFI-RA6-250	AFI-RA8-100L	AFI-RA12-50L	AFI-RA14-15	AFI-RA8-50	AFI-RA8-50L	AFI-RA30-15
Max Capacity (ml)	8x50	6x250	8x100	12x50	14x15	8x50	8x50	30x15
Max Speed (rpm)	13 500	9 000	13 500	11 000	TBC	12 200	13 500	4 600
Max RCF (g)	20 783	13 131	23 432	18 398	TBC	16 973	20 783	3 336
Lid	✓	✓	✓	✓	✓		✓	

Tubes	ml	Ø x L	AFI-RA8-50 CSL	AFI-RA6-250	AFI-RA8-100L	AFI-RA12-50L	AFI-RA14-15	AFI-RA8-50	AFI-RA8-50L	AFI-RA30-15
	1,1-1,4	8x82	24	-	16	36		24	24	-
	1,5-2	11x38	24	-	32	36		24	24	-
	1,5-2	12,5x40	24	-	32	36		24	24	-
	1,3	10x45	24	-	40	36		24	24	
	1,6-5	13x75	8	48	16	12	14	8	8	30
	5-7	13x100	8	-	16	12	14	8	8	-
	2,6-4,9	13x81-106	8	-	16	12		8	8	-
	2,7-3	11x82	24		40	36		24	24	
	1,2-5	11x108	8	-	8	12		8	8	-
	4-8,5	15x91-108	8	-	16	12		8	8	-
	7-10	16x100	8	36	12	12	14	8	8	30
	10 OAK	16x85	8	48	8	12		8	8	-
	10	21x90	8	24	8	12		8	8	-
	15	17x120	8	30	8	12	14	8	8	30
	30	25x110	8	6	8	12		8	8	-
	30	25x110	8	6	8	12		8	8	-
	30 OAK	25x95	8	6	8	12		8	8	-
	50	29x115	8	6	8	12		8	8	-
	50 OAK	29x107	8	6	8	12		8	8	-
	80 OAK 85 OAK	38x106	-	6	8	-		-	-	-
	80 100	44x100-127	-	6	-	-		-	-	-
	250 AFI-B-PPCO250F	62x122	-	6	-	-		-	-	-



LOREENA ACCESSORIES	AFI-RA16-5	AFI-RA48-2	AFI-RA30-2
Max Capacity (ml)	16x5	48x2	30x2
Max Speed (rpm)	13 200	15 500	16 000
Max RCF (g)	21 038	27 129	28 335
Lid	✓	✓	✓

Micro Tubes	ml	∅ x L			
	0,2-0,25	6x18	16	48	30
	0,5	8x30	16	48	30
	1,5-2	11x38	16	48	30
	5	16,5x60	16	-	-
	2 SPIN COLUMN	11x38	16	-	-

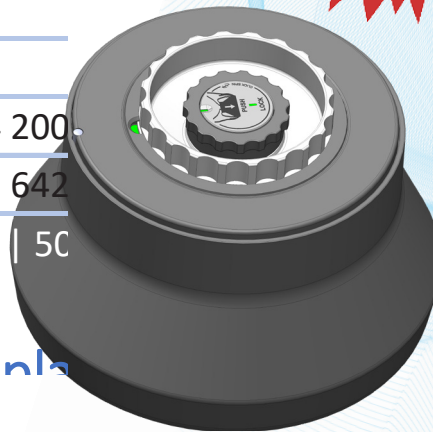
FIXED ANGULAR ROTORS

Accessories selection guide

Model	V	R
Max Capacity	16x 5ml	
Angle	45°	
RPM Max	14 200	14 200
ACR Max	21 642	21 642



New High security sealed Rotor



Accessories

Swing Out Rotor 2x3 Microplate

Ref.	AFI-RA8-50CSL
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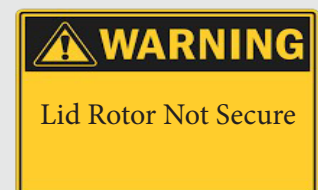
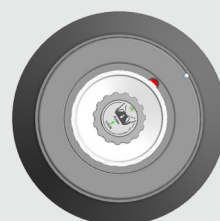
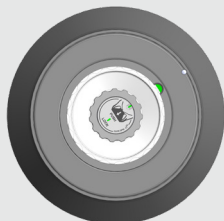


Tubes	1,1-1,4	1,5-2	1,5-2	1,3	1,6-5	2,6-4	2,7-3	5-7	4,9	4,5-5	10
Capacity (ml)	1,1-1,4	1,5-2	1,5-2	1,3	1,6-5	2,6-4	2,7-3	5-7	4,9	4,5-5	10
∅ x L (mm)	8x82	11x38	12,5x40	10x45	13x75	13x81 91	11x82	13x100	13x106	11x108	21x90
Tubes per adapter / rotor	3 24	3 24	3 24	3 24	1 8		3 24	1 8	1 8	1 8	1 8
Adapter											
Hole ∅ x L (mm)	9x50	11,25x40	13x30	11x40	13,5x58		12,5x55	13,5x78	13,5x78	12,5x80	22x80
Radius	83 97	74 88	71 85	69 82	87		80 90	95	95	95	95
Ref.	AFI-50R1-2	AFI-50R2-2	AFI-50R2CRYO-2	AFI-50R1.3-2	AFI-50R5-2		AFI-50R5ST-2	AFI-50R7-2	AFI-50R7-2	AFI-50R6ST-2	AFI-50R10C-2

Tubes	4-8,5	7-10	10	15	30	30	30	50	50
Capacity (ml)	4-8,5	7-10	10	15	30	30	30	50	50
∅ x L (mm)	15x91 108	16x100	16x85	17x120	25x110	25x110	25x95	29x115	29x107
Tubes per adapter / rotor	1 8		1 8	1 8	1 8	1 8	1 8	1 8	1 8
Adapter									
Hole ∅ x L (mm)	17x78		17x70	18x80	26x60	26x60	26,5x70	30x70	30x70
Radius	95		85	97	99	95	98	102	101
Ref.	AFI-50R10-2		AFI-50R10-OAK-2	AFI-50R15C-2	AFI-50R30S-2	AFI-50R30C-2	AFI-50R30-OAK-2	-	AFI-50R50-OAK-2

The only Biological containment rotor that cannot be used **without its lid**
 If the Rotor lid is missing, the AFI centrifuge will NOT START

1 => Biological safety guarantee



2 => Visual indicator to secure the biological containment

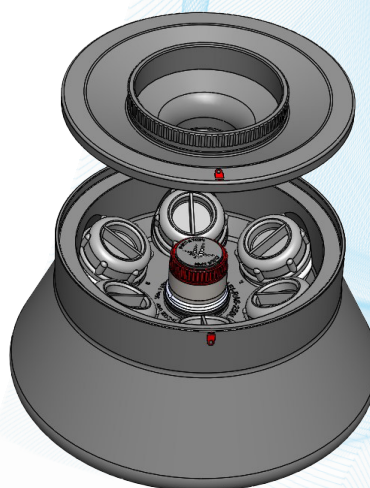
FIXED ANGULAR ROTORS

Accessories selection guide



Angular rotor 6x250ml - 25° - Sealed

Model	R
Max Capacity	6 x 250ml
Angle	25°
RPM Max	9 000
ACR Max	13 131



Accessories



Ref.	AFI-RA6-250L
------	--------------

Tubes

Capacity (ml)	1,6-5	7-10	10	10	15	30	30	30	50	50
∅ x L (mm)	13x75	16x100	16,2x85	21x90	17x120	25x110	25x110	25x95	29x115	29x107
Tubes per adapter / rotor	8 48	6 36	8 48	4 24	5 30	1 6	1 6	1 6	1 6	1 6
Adapter										
Hole ∅ x L (mm)	13,5x58	17x78	17x65	22x80	18x80	26x60	26x60	26,5x70	30x70	30x70
Radius	145	87 124	98 135	102 140	102 134	98 140	124	124	124	126
Ref.	AFI-250R5	AFI-250R10	AFI-250R10-OAK	AFI-250R10C	AFI-250R15C	AFI-250R30S	AFI-250R30C	AFI-250R30-OAK	AFI-250R50C	AFI-250R50-OAK

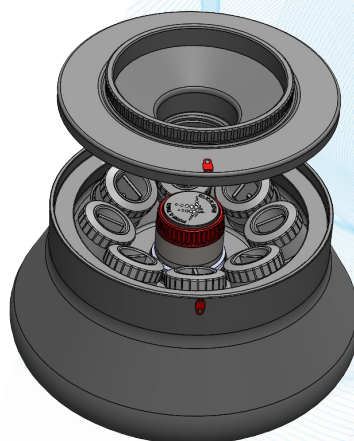
Tubes

Capacity (ml)	80 / 85	100	250
∅ x L (mm)	38x106	44x127	62x122
Tubes per adapter / rotor	1 6	1 6	1 6
Adapter			
Hole ∅ x L (mm)	39x68	46x80	63x110
Radius	145	127	130
Ref.	AFI-250R80-OAK	AFI-250R100R	-



Angular rotor 8x100ml - 28° - Sealed

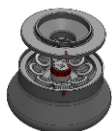
Model	V	R
Max Capacity	8 x 100ml	
Angle	28°	
RPM Max	12 500	13 500
ACR Max	20 089	23 432



Visual LOCK for PERFECT lid closure



Accessories



Ref.	AFI-RA8-100L
------	--------------

Tubes										
Capacity (ml)	1,1-1,4	1,5-2	1,5-2	1,3	1,6-5	2,6-4	2,7-3	5-7	4,9	4,5-5
Ø x L (mm)	8x82	11x38	12,5x40	10x45	13x75	13x81 91	11x82	13x100	13x106	11x108
Tubes per adapter / rotor	2 16	4 32	4 32	5 40	2 16		5 40	2 16		1 8
Adapter										
Hole Ø x L(mm)	9x50	11,25x40	13x30	11x40	13,5x58		12,5x55	13,5x78		12,5x80
Radius	95 111	93 114	93 114	98 113	95 111		98 113	95 111		113
Ref.	AFI-100R1-2	AFI-100R2-2	AFI-100R2CRYO-2	AFI-100R1.3-2	AFI-100R5-2		AFI-100R5ST-2	AFI-100R7-2		AFI-100R6ST-2

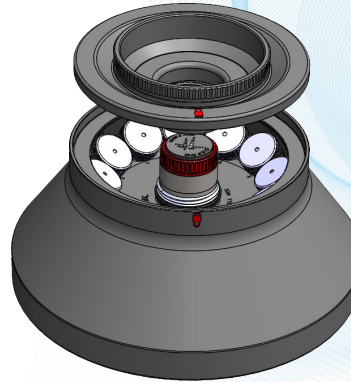
Tubes										
Capacity (ml)	10	4-5	7-10	5-8	10	15	30	30	30	50
Ø x L (mm)	21x90	15x91	16x100	15x108	16x85	17x120	25x110	25x110	25x95	29x115
Tubes per adapter / rotor	1 8	2 16		1 8	1 8	1 8	1 8	1 8	1 8	1 8
Adapter										
Hole Ø x L(mm)	22x80	17x78		17x80	17x70	18x80	26x60	26x60	26,5x70	30x70
Radius	118	105 111		111	105 111	103	104	104	102	109
Ref.	AFI-100R10C-2	AFI-100R10-2		AFI-100R10ST-2	AFI-100R10-OAK-	AFI-100R15C-2	AFI-100R30S-2	AFI-100R30C-2	AFI-100R30-OAK-	AFI-100R50C-2

Tubes				
Capacity (ml)	50	80	85	94
Ø x L (mm)	29x107	38x106	38x106	38x102
Tubes per adapter / rotor	1 8	1 8		1 6
Adapter				
Hole Ø x L(mm)	30x70	39x68		39x86
Radius	115	115		106
Ref.	AFI-100R50-OAK-	-	-	-



Angular rotor 12x50ml - 35° - Sealed

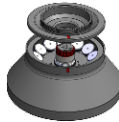
Model	V	R
Max Capacity	12 x 50ml	
Angle	35°	
RPM Max	11 000	11 000
ACR Max	18 398	18 398



Visual LOCK for PERFECT lid closure



Accessories



Ref.	AFI-RA12-50L
------	--------------

Tubes											
Capacity (ml)	1,1-1,4	1,5-2	1,5-2	1,3	1,6-5	2,6-4	2,7-3	5-7	4,9	4,5-5	10
∅ x L (mm)	8x82	11x38	12,5x40	10x45	13x75	13x81 91	11x82	13x100	13x106	11x108	21x90
Tubes per adapter / rotor	3 36	3 36	3 36	3 36	1 12		3 36	1 12	1 12	1 12	1 12
Adapter											
Hole ∅ x L (mm)	9x50	11,25x40	13x30	11x40	13,5x58	12,5x55	13,5x78	13,5x78	12,5x80	22x80	
Radius	136	85 99	76 90	72 87	70 84	89	81 95	97	97	97	97
Ref.	AFI-50R1-2	AFI-50R2-2	AFI-50R2CRYO-2	AFI-50R1.3-2	AFI-50R5-2	AFI-50R5ST-2	AFI-50R7-2	AFI-50R7-2	AFI-50R7-2	AFI-50R6ST-2	AFI-50R10C-2

Tubes										
Capacity (ml)	4-8,5	7-10	10	15	30	30	30	50	50	50
∅ x L (mm)	15x91 108	16x100	16x85	17x120	25x110	25x110	25x95	29x115	29x115	29x107
Tubes per adapter / rotor	1 12		1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12
Adapter										
Hole ∅ x L (mm)	17x78	17x70	18x80	26x60	26x60	26,5x70	30x70	30x70	30x70	30x70
Radius	136	97	87	89	101	97	100	102	102	102
Ref.	AFI-50R10-2	AFI-50R10-OAK-2	AFI-50R15C-2	AFI-50R30S-2	AFI-50R30C-2	AFI-50R30-OAK-2	-	AFI-50R50S-2	AFI-50R50-OAK-2	

* Set of 8

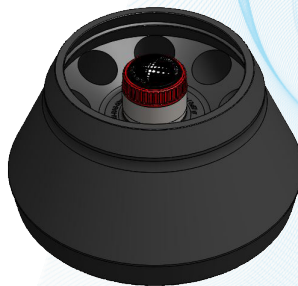
FIXED ANGULAR ROTORS

Accessories selection guide



Angular rotor 8x50ml - 25°

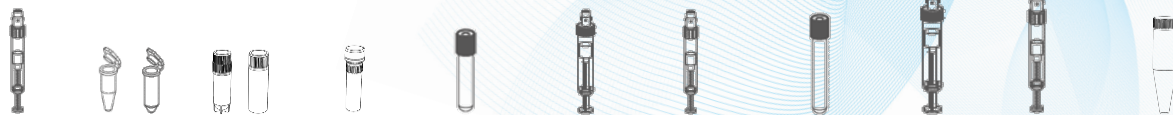
Model	V	R
Max Capacity	8 x 50ml	
Angle	25°	
RPM Max	12 200	12 200
ACR Max	16 973	16 973



Accessories



Ref.	AFI-RA8-50
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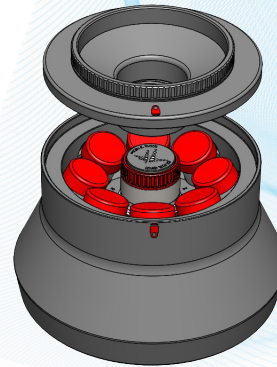


Tubes	1,1-1,4	1,5-2	1,5-2	1,3	1,6-5	2,6-4	2,7-3	5-7	4,9	4,5-5	10
Capacity (ml)	1,1-1,4	1,5-2	1,5-2	1,3	1,6-5	2,6-4	2,7-3	5-7	4,9	4,5-5	10
∅ x L (mm)	8x82	11x38	12,5x40	10x45	13x75	13x81 91	11x82	13x100	13x106	11x108	21x90
Tubes per adapter / rotor	3 24	3 24	3 24	3 24	1 8		3 24	1 8	1 8	1 8	1 8
Adapter											
Hole ∅ x L (mm)	9x50	11,25x40	13x30	11x40	13,5x58	12,5x55	13,5x78	13,5x78	13,5x78	12,5x80	22x80
Radius	102	83 97	74 88	71 85	69 82	87	80 90	95	95	95	95
Ref.	AFI-50R1-2	AFI-50R2-2	AFI-50R2CRYO-2	AFI-50R1.3-2	AFI-50R5-2	AFI-50R5ST-2	AFI-50R7-2	AFI-50R7-2	AFI-50R7-2	AFI-50R6ST-2	AFI-50R10C-2

Tubes									
Capacity (ml)	4-8,5	7-10	10	15	30	30	30	50	50
∅ x L (mm)	15x91 108	16x100	16x85	17x120	25x110	25x110	25x95	29x115	29x107
Tubes per adapter / rotor	1 8		1 8	1 8	1 8	1 8	1 8	1 8	1 8
Adapter									
Hole ∅ x L (mm)	17x78	17x70	18x80	26x60	26x60	26,5x70	30x70	30x70	#REF!
Radius	102	95	85	97	99	95	98	102	
Ref.	AFI-50R10-2	AFI-50R10-OAK-2	AFI-50R15C-2	AFI-50R30S-2	AFI-50R30C-2	AFI-50R30-OAK-2	-	AFI-50R50-OAK-	

Angular rotor 8x50ml - 25° - Sealed

Model	V	R
Max Capacity	8x 50ml	
Angle	25°	
RPM Max	12 200	13 500
ACR Max	16 973	20 783



Visual LOCK for PERFECT lid closure



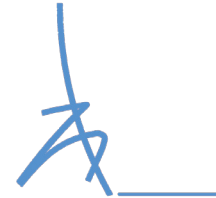
Accessories



Ref.	AFI-RA8-50L
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Tubes											
Capacity (ml)	1,1-1,4	1,5-2	1,5-2	1,3	1,6-5	2,6-4	2,7-3	5-7	4,9	4,5-5	10
∅ x L (mm)	8x82	11x38	12,5x40	10x45	13x75	13x81 91	11x82	13x100	13x106	11x108	21x90
Tubes per adapter / rotor	3 24	3 24	3 24	3 24	1 8		3 24	1 8	1 8	1 8	1 8
Adapter											
Hole ∅ x L (mm)	9x50	11,25x40	13x30	11x40	13,5x58		12,5x55	13,5x78	13,5x78	12,5x80	22x80
Radius	102	83 97	74 88	71 85	69 82		87	80 90	95	95	95
Ref.	AFI-50R1-2	AFI-50R2-2	AFI-50R2CRYO-2	AFI-50R1.3-2	AFI-50R5-2		AFI-50R5ST-2	AFI-50R7-2	AFI-50R7-2	AFI-50R6ST-2	AFI-50R10C-2

Tubes									
Capacity (ml)	4-8,5	7-10	10	15	30	30	30	50	50
∅ x L (mm)	15x91 108	16x100	16x85	17x120	25x110	25x110	25x95	29x115	29x107
Tubes per adapter / rotor	1 8		1 8	1 8	1 8	1 8	1 8	1 8	1 8
Adapter									
Hole ∅ x L (mm)	17x78		17x70	18x80	26x60	26x60	26,5x70	30x70	30x70
Radius	102		95	85	97	99	95	98	102
Ref.	AFI-50R10-2		AFI-50R10-OAK-2	AFI-50R15C-2	AFI-50R30S-2	AFI-50R30C-2	AFI-50R30-OAK-	-	AFI-50R50-OAK-

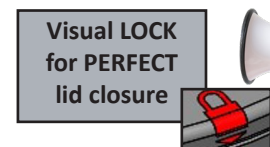


FIXED ANGULAR ROTORS

Accessories selection guide

Angular rotor 14x 15ml -28°

Model	V	R
Max Capacity	14x 15mL	
Angle	28°	
RPM Max	TBC	TBC
ACR Max	TBC	TBC



Accessories






Ref.	AFI-RA14-15L
------	--------------

Tubes

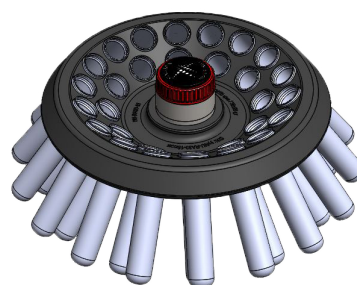
Capacity (ml)	1,6-5	5-7	7-10	15
∅ x L (mm)	13x75	13x100	16x100	17x120
Tubes per adapter / rotor	1 14	1 14	1 14	1 14

Adapter







				
Hole ∅ x L (mm)				
Radius	112	93	105	105
Ref.	AFI-15C5	AF-15C7	AFI-15C10	-

Angular rotor 30x15ml - 37°








Model	V	R
Max Capacity	30 x 15ml	
Angle	37°	
RPM Max	4 500	4 600
ACR Max	3 192	3 336



Tubes

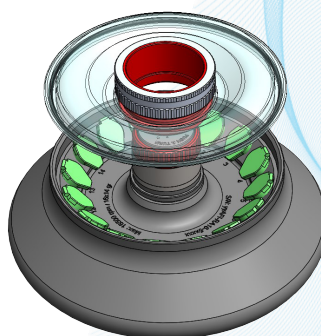
							
Capacity (ml)	-	5	1,6-5	5-7	10	14	15
∅ x L (mm)	-	12x75	13x75	13x100	16x100	17x100	17x120
Tubes per adapter / rotor	-	1 30	1 30	1 30	1 30	1 30	1 30













Accessories

							
Hole ∅ x L (mm)	18x98	13x60	13x 58	13x78	17x78	17x78	18x98
Radius	122 141	96 115	96 115	108 127	110 129	118 136	118 136
Ref.	AFI-RA30-15	AFI-15R5G	AFI-15R5	AFI-15R6	AFI-15R10	AFI-15R10	AFI-15R15C

Angular rotor 16x5ml - 45° - Sealed

Model	V	R
Max Capacity	16 x 5ml	
Angle	45°	
RPM Max	13 200	13 200
ACR Max	21 038	21 038



Tubes						
	5	0,2	0,25	0,5	2	SPIN-COLUMNS
Capacity (ml)	5	0,2	0,25	0,5	2	2
Ø x L (mm)	16,5x60	6x18	6x18	8x30	11x38	11x38
Tubes per adapter / rotor	16	1 16	1 16	1 16	1 16	1 16
Accessories						
Hole Ø X L(mm)	17x57		7x39	8,3x39	11,2x41	11,2x39
Radius	108	79	80	82	95	95
Ref.	AFI-RA16-5	AFI-5R025*	AFI-5R05*	AFI-5R05	AFI-5R2	AFI-5R2SC

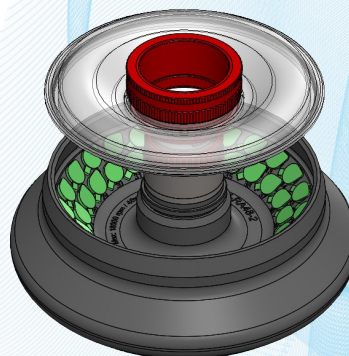
* Set of 16

FIXED ANGULAR ROTORS

Accessories selection guide

Angular rotor 48x2ml - 45° - Sealed

Model	V	R
Max Capacity	48 x 2ml	
Angle	45°	
RPM Max	14 000	15 500
ACR Max	22 132	27 129



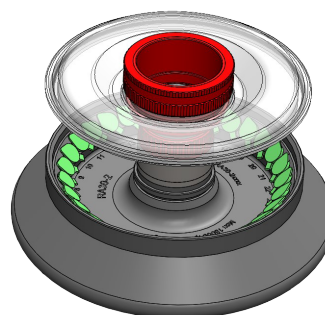
Tubes	SPIN COLUMN						
	1,5-2		2	0,2	0,25	0,5	1,5-2
Capacity (ml)	1,5-2		2	0,2	0,25	0,5	1,5-2
∅ x L (mm)	11x38		6x18	6x18	6x18	8x30	11x38
Tubes per adapter / rotor	48		1 48	1 48	1 48	1 48	48
Accessories							
Hole ∅ X L(mm)	11,2x41			7x39	7x39	8,3x39	11,2x41
Radius	91 101		89 99	89 99	89 99	89 99	91 101
Ref.	AFI-RA48-2		AFI-2R02*	AFI-2R025*	AFI-2R05*	AFI-2R05*	AFI-RA48-2 NUNC

Available for NUNC tubes



Angular rotor 30x2ml - 45° - Sealed

Model	V	R
Max Capacity	30 x 2ml	
Angle	45°	
RPM Max	15 300	16 000
ACR Max	25 910	28 335










Tubes	SPIN COLUMN					
	1,5-2		2	0,2	0,25	0,5
Capacity (ml)	1,5-2		2	0,2	0,25	0,5
∅ x L (mm)	11x38		6x18	6x18	6x18	8x30
Tubes per adapter / rotor	30		1 30	1 30	1 30	1 30
Accessories						
Hole ∅ X L(mm)	11,2x41			7x39	7x39	8,3x39
Radius	99		97	97	97	97
Ref.	AFI-RA30-2		AFI-2R02*	AFI-2R025*	AFI-2R05*	AFI-2R05*

* Set of 6



Spécifications - Specifications						
Modèle - Model	Ventilé - Ventilated		Réfrigérée -Refrigerated Chauffante- Heated		Réfrigéré de sol Refrigerated floor Chauffante de sol – Heated Floor	
Centrifugeuses de paille et de sol <i>Benchtop & Floor centrifuges</i>						
						
Référence - Reference	AFI-C300V-E	AFI-C300V	AFI-C300R-E AFI-C300RH-E	AFI-C300R AFI-C300RH	AFI-C300RF-E AFI-C300RFH-E	AFI-C300RF AFI-C300RFH
Reference IVD *	AFI-C300VE/IVD	AFI-C300V./IVD	AFI-C300RE/IVD	AFI-C300R/IVD	AFI-C300RF-E/IVD AFI-C300RFH/IVD	AFI-C300RF/IVD AFI-C300RF/IVD
Caractéristiques électriques - Electrical specifications						
Tension nominale - Nominal voltage (+/- 10%)	230 V		120 V		230 V	
Fréquence - Frequency	50 / 60 Hz		60 Hz		50 Hz	
Puissance alimentation max. - Power max.	1000 W		1700 W (800W compressor)		1700 W (800W compressor)	
Conformité aux directives Européennes - Compliance with European directives						
(UE)2017/746: Dispositifs médicaux de diagnostic in vitro <i>In vitro diagnostic medical devices</i> *Only the IVD References	✓		✓		✓	
2014/35/UE : Directive Basse Tension – Low Voltage 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 <i>Swing-out rotors</i> 	Capacité max. <i>Max. capacity</i>	AFI-RX1000 + AFI-B1L	4x 1000mL			
	RPM max.	AFI-RX750	4500 Rpm		4600 Rpm	
	ACR max <i>Max. RCF</i>		4528 xg		4731 xg	
Rotors Microplaques <i>Microplate rotors</i> 	Capacité max. <i>Max. capacity</i>	AFI-RHD3	14x2 Microplates / 4x2 Deep Well			
	RPM max.		4500 rpm		4600 rpm	
	ACR max <i>Max. RCF</i>	AFI-RHD3	3713 g		3880 g	
Rotors Angulaires <i>Fixed angle rotors</i> 	Capacité max. <i>Max. capacity</i>	AFI-RA6-250	6x 250mL			
	RPM max.	AFI-RA30-2	15300 rpm		16000 rpm	
	ACR max <i>Max. RCF</i>		25910 g		28335 g	
Couvercles - Lids			✓			
Dimensions & poids - Dimensions & Weight						
Dimensions (HxLxL) - Foot print Dimensions (HxWxD)	36 x 50 x 65 cm		35 x 77 x 64 cm		83 x 57 x 68 cm	
Profondeur Table – Table deep	60 cm		60 cm		/	
Dimensions emballage (HxLxL) - Package dimension (HxWxD)	54 x 74 x 78 cm		54 x 80 x 78 cm		100 x 74 x 78 cm	
Hauteur couvercle ouvert - Opened lid height	79 cm		80 cm		139 cm	
Poids net - Weight unpacked	82 kg		145 kg		170 kg	
Poids emballé - Weight packed	97 kg		160 kg		185 kg	

Description de la centrifugeuse / Centrifuge description						
Référence - Reference	AFI-C300V-E	AFI-C300V	AFI-C300R-E AFI-C300RH-E	AFI-C300R AFI-C300RH	AFI-C300RF-E AFI-C300RFH-E	AFI-C300RF AFI-C300RFH
Ecran graphique tactile 4.3", couleur <i>4.3" graphic color screen</i>				✓		
Commandes <i>Commands</i>			Touches et écran tactile <i>Buttons and touchscreen</i>			
Contrôle par microprocesseur <i>Microprocessor control</i>				✓		
Fixation de rotor sans outil / <i>Toolless rotor fixing</i>			Système "ClickSpin®"			
Reconnaissance automatique du rotor <i>Automatic rotor recognition</i>				✓		
Détection de balourd <i>Imbalance detection</i>			Calibration ajustable (15g swing out et 3g rotors angulaires). Neutralisation automatique des vibrations liées à l'environnement. <i>Tunable calibration (15g for swing out & 3g for angular rotors). Automatic neutralization of vibrations due to environment</i>			
Mode économie d'énergie <i>Energy saving mode</i>				Mode "Postcool" désactivable <i>Desactivable "Postcool" mode</i>		
Fermeture motorisée du couvercle / <i>Motorized lid closing</i>				✓		
Durées de cycle <i>Cycle duration</i>			10 s à 99h:59min:59s & Impulsion <i>10 s to 99h:59min:59 s & Pulse</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>				✓		
Vitesse mini / Maxi <i>Mini / Max Speed</i>		300 / 15300 rpm		300 / 16000 rpm		
Pas de réglage de la vitesse / Précision vitesse <i>Speed setting step / Vitesse accuracy</i>			10 rpm - 10x g / ± 0.5%			
Nombre de programmes <i>Programs number</i>		99		99+1		99+2
Fonction Pulse <i>Pulse (short run)</i>				✓		
Pentes d'accélération & de freinage <i>Acceleration & Braking slopes</i>			10 & 10			
Décélération libre <i>Brakeless mode</i>				✓		
Système de réfrigération <i>Cooling system</i>		Ventilation <i>Ventilation device</i>		Sans CFC <i>CFC free</i>		
Temps de montée de T° ambiante à 37°C <i>Time to increase from ambient temp to 37°C</i>		N/A		N/A		Ultra rapide < 9 min
Temps de descente de T° ambiante à 4°C <i>Time to decrease from ambient temp to 4°C</i>		N/A		Ultra rapide < 6 min		Ultra rapide < 6 min
Plage de réglage en température <i>Range of setting temperature</i>		N/A		-20°C → +40°C * <small>* Pour les T° < à 4° et > à l'ambiante, des tests sont nécessaires selon les rotors utilisés et la vitesse For T° < 4° and > ambient, tests are necessary depending on the rotors used and the speed.</small>		-20°C → +40°C * <small>* Pour les T° < à 4° des tests sont nécessaires selon les rotors utilisés et la vitesse. For T° < 4° tests are necessary depending on the rotors used and the speed.</small>
Echauffement (en C°) de l'échantillon à vitesse max pour T° ambiante 23°, Durée de fonctionnement en continu 45 mn. <small>*performance optimale atteinte avec couvercle de nacelle</small> Sample heating (C°) at max speed, 23° ambient temperature, Continuous operating time 45mn <small>*optimum performance achieved with bucket lid</small>		15		N/A		
Fonction de pré-refroidissement et préchauffage <i>Precool function</i>		N/A		4° C pré enregistré/registered 		4° & 37°C pré enregistré/registered Pre cool function adjustable from 20°C to -10°C Pre-heating function adjustable from 20°C to 40°C
Précision en température <i>Temperature accuracy</i>		N/A		+/- 2°C		
Dissipation de chaleur maximale <i>Heat dissipation</i>		3413 BTU/h		5801 BTU/h		
Niveau sonore max. <i>Max. noise</i>		≤ 61 dB (A)		≤ 56 dB (A)		≤ 56 dB (A)

LOREENA

From Experience comes Excellence



BLOOD BANK

Centrifuge 4L

LOREENA

Blood Bank Centrifuge

Blood Bank Centrifuge

LOREENA benefits from all the AFI's experience for blood bank center and Biotherapies applications. It allows you to centrifuge **4 bags of 500mL & 600 mL and up to 8 bags of 450 mL.** It meets all your validated protocols to separate Plasma, Buffycoat, Red Blood Cell. These protocols come standard and pre-programmed into your machine.

QUALITY THAT SPEAK FOR ITSELF

The «IDEM» application coupled with PFC (Power Factor Control) technology ensures a reproducibility of your cycles making LOREENA an ideal centrifuge for simplified blood processing productivity

INTERACTIVE COMMUNICATION

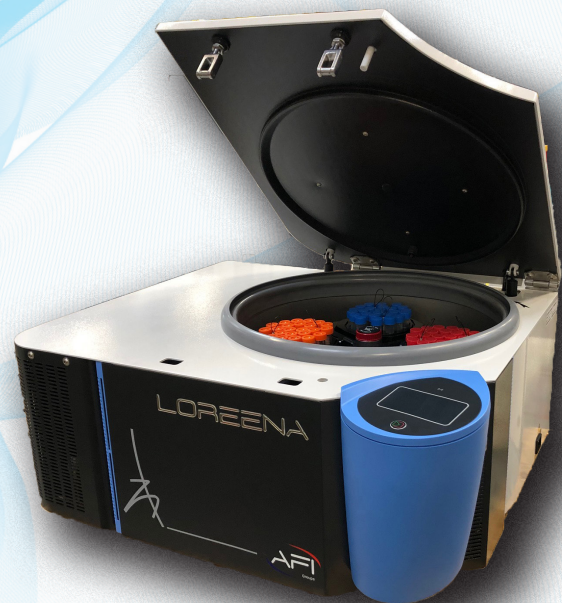
With its large «Smartphone» touch screen colour display, LOREENA ensures interactive communication between you and the machine. Backlit display for better visibility Programming is greatly facilitated by direct access to all cycle parameters in a single window. Compatible with gloved hands.

ALL IN ONE

Blood bank application, start with your Loreena. Thanks to the RX 750 and the oval studied buckets, you can centrifuge 8 blood bags of 450 mL. A perfect separation of plasma, buffy coat and red cells.



Centrifuge	Description
AFI-C300R-E-BB	LOREENA Centrifuge Blood Bank
AFI-C300RF-E-BB	LOREENA Centrifuge Floor Model Blood Bank
Specifications	Swing-out rotor
Max Speed	4600rpm
Max RCF	4731 g
Max Loading	4x950ml
T° Range	-10°C/+40°C
Dim. (HxWxD)	35x77x64cm (Floor Model 83x57x68cm)
Pack dim.	54x80x78cm (Floor Model 100x74x78cm)
Weight	145kg (Floor Model 170kg)



AFI-BO750

Blood Bank Application

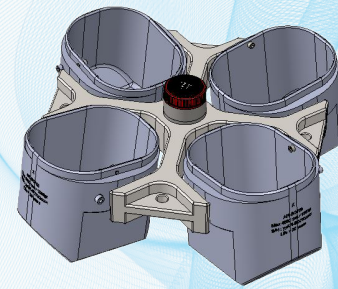
Model	R
Max Capacity	4 x 750ml
Angle	90°
RPM Max	4 600
ACR Max	4 637

Accessories



Ref.	AFI-RX750	AFI-BO750*	AFI-WLI750	AFI-STICK7	AFI-STICK14
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* Set of 4, possibility set of 2



Blood Bags	250-400 mL	450mL +/- 10% 475 mL +/-10%	350-450 mL
Type	Double/ Triple Cord Blood/ Buffy coat	Double / Triple Quadruple + Filtre	Simple Buffy coat
Bags per adapter / rotor	1 4	1 4	2 8
Adapter			
Hole LWH (mm)			
Radius	196	193	193
Max Charge (gr)	1500		
Ref.	AFI-LI750	AFI-LI750-600	AFI-LI750-900

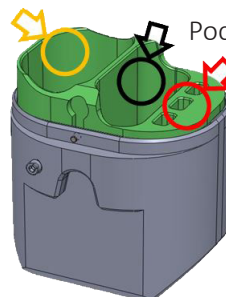
* We recommend the use of a silicone spacer to wedge the pocket

Tubes	1,6-7	2,6-4,9	2,7-5	15	50
Capacity (ml)					
∅ x L (mm)	13x75 100	13x81 106	11x82 108	17x120	29x115
Tubes per adapter / rotor		34 136		16 64	7 28
Adapter					
Hole ∅ x L (mm)		13,5x58		18x80	30x70
Radius	196	176		196	196
Max Charge (gr)	1500				
Ref.		AFI-3TO5		AFI-3TO15C	AFI-3TO50C

REINFORCED SECURITY

Blood Bags loading in a dedicated compartment to avoid any risk of perforation

Poche de sang Poches satellites
Batons d'équilibrage



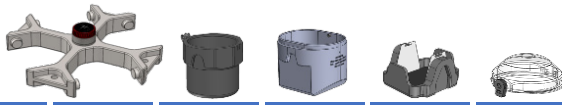
AFI-RX750

Adapters selection guide



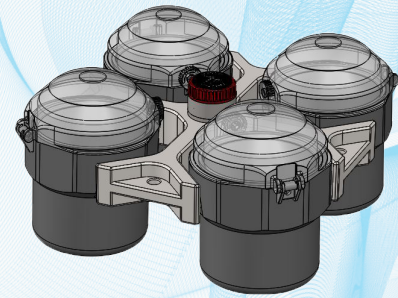
Model	V	R
Max Capacity	4 x 750ml	
Angle	90°	
RPM Max	4 500	4 600
ACR Max	4 528	4 731

Accessories



Ref.	AFI-RX750	AFI-B750*	AFI-BO750*	AFI-BXDW3	AFI-L750*
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* Set of 4, possibility set of 2



Tubes

	1,1-1,4	1,5-2	1,5-2	1,3	1,6-7	2,6-4,9	1,2-3	4-8,5	7-10	10	15	15
Capacity (ml)	1,1-1,4	1,5-2	1,5-2	1,3	1,6-7	2,6-4,9	1,2-3	4-8,5	7-10	10	15	15
∅ x L (mm)	8x82	11x38	12,5x40	10x45	13x75 100	13x81 106	11x82	15x91 108	16x100	21x90	17x120	17x120
Tubes per adapter / rotor	33 132	56 224	33 132	40 160	27 108	37 148		21 84		13 52	14 56	16 64
Adapter												
Hole ∅ x L (mm)	9x50	11,25x40	13x30	11x40	13,5x58	12,5x55		17x58		22x80	18x80	18x80
Radius	200	198	180	190	198	195		198		200	198	198
Max Charge (gr)	1000											
Ref.	AFI-3T1	AFI-3T2	AFI-3T2CRYO	AFI-3T1.3	AFI-3T5*	AFI-3T5ST*		AFI-3T10		AFI-3T10C	AFI-3T15C	AFI-3T15ST

* For tube length > 80mm and ACR > 3000g, we preconise using adapter AFI-3T6 or AFI-3T6ST

Tubes

	30	30	30	50	50	50	50	50	50	80	80 100	150 200
Capacity (ml)	30	30	30	50	50	50	50	50	50	80	80 100	150 200
∅ x L (mm)	25x110	25x110	25x95	29x115	29x115	29x115	29x115	29x115	29x115	38x110	44x100 127	61x118 138
Tubes per adapter / rotor	7 28	5 20	7 28	7 28	6 24	6 24	7 28	6 24	7 28	4 16	2 8	1 4
Adapter												
Hole ∅ x L (mm)	26x60	26x60	26,5x70	30x70	30x70	30x70	30x70	30x70	30x70	40x78	46x80	62x80
Radius	200	195	198	198	198	198	198	185/200	198	198	198	182
Max Charge (gr)	1000											
Ref.	AFI-3T30S	AFI-3T30C	AFI-3T30AOR	AFI-3T50S	AFI-3T50SL	AFI-3T50CSL*	AFI-3T50C	AFI-3T50CL	AFI-3T50AOR	AFI-3T80AOR	AFI-3T100R	AFI-3T200CF




* For protocols < 3500g

Tubes

	AFI-B-PPCO200CNUNC / NALGENE	AFI-B-PPCO200F	CORNING		AFI-B-PPCO250F	AFI-B-PPCO290F	CORNING	AFI-B-PPCO500F	AFI-B-PPCO625F	AFI-B-PPCO750F	AFI-B-PPCO750F	
Capacity (ml)	200	200	200	250	250	290	500	500	625	750	750	
∅ x L (mm)	56x118	60x130	56x112	60x163	65x115	62x122	62x137	96x148	98x114	92x130	98x152	100x130
Tubes per adapter / rotor	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4
Adapter												
Hole ∅ x L (mm)	58x80	62x80	58x80	62x103	66x103	64x80	97x103	102x102	94x85	102x102	102x102	102x102
Radius	200	200	198	198	198	182	200	200	184	200	200	200
Max Charge (gr)	1000											
Ref.	AFI-3T200C	AFI-3T200CN	AFI-3T200F	AFI-3T250C	AFI-3T250G	AFI-3T290F	AFI-3T500C	-	AFI-3T625F	-	-	-



Spécifications - Specifications				
Modèle - Model	Réfrigéré - Refrigerated		Réfrigéré de sol Refrigerated Floor version	
Centrifugeuses de paille et de sol <i>Benchtop & Floor centrifuges</i>				
Référence - Reference	AFI-C300R-E-BB	AFI-C300R-BB	AFI-C300RF-EBB	AFI-C300RF-BB
Caractéristiques électriques - Electrical specifications				
Tension nominale - Nominal voltage (+/- 10%)	230 V	120 V	230 V	120 V
Fréquence - Frequency	50 Hz	60 Hz	50 Hz	60 Hz
Puissance alimentation max. - Power max.	1700 W (800W compressor)		1700 W (800W compressor)	
Conformité aux directives Européennes - Compliance with European directives				
98/79/CE : Dispositifs médicaux de diagnostic in vitro <i>In vitro diagnostic medical devices</i>	✓		✓	
2014/35/UE : Directive Basse Tension – Low Voltage 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	AFI-RX750	4x 750mL	
	RPM max.		4600 rpm	4600 rpm
	ACR max Max. RCF		4731 g	4731 g
Couvercle - Lid	✓			
Dimensions & poids - Dimensions & Weight				
Dimensions (HxLxL) - Foot print Dimensions (HxWxD)	35 x 77 x 64 cm		83 x 57 x 68 cm	
Profondeur table – Table deep	60 cm		/	
Dimensions emballage (HxLxL) - Package dimension (HxWxD)	54 x 80 x 78 cm		100 x 74 x 78 cm	
Hauteur couvercle ouvert - Opened lid height	88 cm		139 cm	
Poids net - Weight unpacked	145 kg		170 kg	
Poids emballé - Weight packed	160 kg		185 kg	

Description de la centrifugeuse / Centrifuge description				
Référence - Reference	AFI-C300R-E-BB	AFI-C300R-BB	AFI-C300RF-EBB	AFI-C300RF-BB
Ecran graphique tactile 4.3", couleur <i>4.3" graphic color screen</i>		✓		
Commandes <i>Commands</i>		Touches et écran tactile <i>Buttons and touchscreen</i>		
Contrôle par microprocesseur <i>Microprocessor control</i>		✓		
Fixation de rotor sans outil / <i>Toolless rotor fixing</i>		Système "ClickSpin®"		
Reconnaissance automatique du rotor <i>Automatic rotor recognition</i>		✓		
Détection de balourd <i>Imbalance detection</i>		Calibration ajustable (15g swing out et 3g rotors angulaires). Neutralisation automatique des vibrations liées à l'environnement. <i>Tunable calibration (15g for swing out & 3g for angular rotors). Automatic neutralization of vibrations due to environment</i>		
Mode économie d'énergie <i>Energy saving mode</i>			Mode "Postcool" désactivable <i>Desactivable "Postcool" mode</i>	
Fermeture motorisée du couvercle / <i>Motorized lid closing</i>		✓		
Fonction My IDEM (calcul d'intégral) <i>My IDEM function (Accumulated Centrifugal Effect)</i>		✓		
Durées de cycle <i>Cycle duration</i>		10 s à 99h:59min:59s & Impulsion <i>10 s to 99h:59min:59 s & Pulse</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>		✓		
Vitesse mini / Maxi <i>Mini / Max Speed</i>		300 / 4600 rpm		
Pas de réglage de la vitesse <i>Speed setting step</i>		10 rpm/10x g		
Précision de vitesse <i>Speed accuracy</i>		± 0.5%		
Nombre de programmes <i>Programs number</i>		99+2		
Fonction Pulse <i>Pulse (short run)</i>		✓		
Pentes d'accélération & de freinage <i>Acceleration & Braking slopes</i>		10 & 10		
Décélération libre <i>Brakeless mode</i>		✓		
Système de réfrigération <i>Cooling system</i>		Sans CFC <i>CFC free</i>		
Plage de réglage en température <i>Range of setting temperature</i>		-10°C → +40°C		
Alarme de surtempérature différentielle <i>Overtemperature alarm menu</i>		Ajustable de +5° à +20°C		
Fonction de pré-refroidissement <i>Precool function</i>		✓		
Précision en température <i>Temperature accuracy</i>		+/- 2°C		
Dissipation de chaleur maximale <i>Heat dissipation</i>		5801 BTU/h		
Niveau sonore max. <i>Max. noise</i>		≤ 60 dB (A)		≤ 57 dB (A)
Option Thermostatée 37°C		37°C +/-2°C		

LOREENA

From Experience comes Excellence



VETERINARY
Centrifuge

LOREENA

Veterinary Centrifuge

Veterinary Centrifuge

LOREENA VT has been designed to meet the intense analysis periods of veterinary laboratories.

Its dedicated accessory and its automatic tube uncapping system during centrifugation offer an undeniable time saving to laboratories during the prophylaxis period for example.

96 tubes can be centrifuged and uncapped at the same time before being transferred to the automatic machines.

QUALITY THAT SPEAK FOR ITSELF

The «IDEM» application coupled with PFC (Power Factor Control) technology ensures a reproducibility of your cycles making LOREENA an ideal centrifuge for simplified blood processing productivity

INTERACTIVE COMMUNICATION

With its large «Smartphone» touch screen colour display, LOREENA ensures interactive communication between you and the machine. Backlit display for better visibility Programming is greatly facilitated by direct access to all cycle parameters in a single window. Compatible with gloved hands.

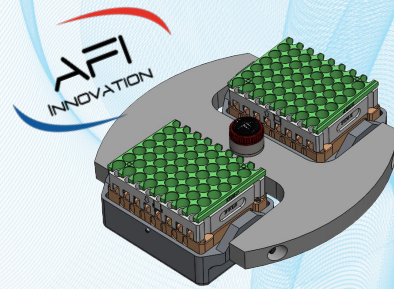


Centrifuge	Description
AFI-C300R-E-VT	LOREENA Centrifuge Veterinary
AFI-C300RF-E-VT	LOREENA Centrifuge Floor Model Veterinary
Specifications	Swing-out rotor
Max Speed	4600rpm
Max RCF	4637g
Max Loading	4x1000ml
T° Range	-10°C/+40°C
Dim. (HxWxD)	35x77x64cm (Floor Model 83x57x68cm)
Pack dim.	54x80x78cm (Floor Model 100x74x78cm)
Weight	145kg (Floor Model 170kg)





ANIMAL PROPHYLAXIS : 96 tubes automatically uncaped



Model	V	R
Max Capacity	96 tubes	
Angle	90°	
RPM Max	3 700	3 700
ACR Max	2 510	2 510

Tubes

				LONG CAP	SHORT CAP	INSIDE CAP		
Capacity (ml)		-	1,6-5	-	-	-	-	-
Ø x L (mm)		-	13x75	-	-	-	-	-
Tubes per adapter / rotor		-	49 96	-	-	-	-	-

Accessories

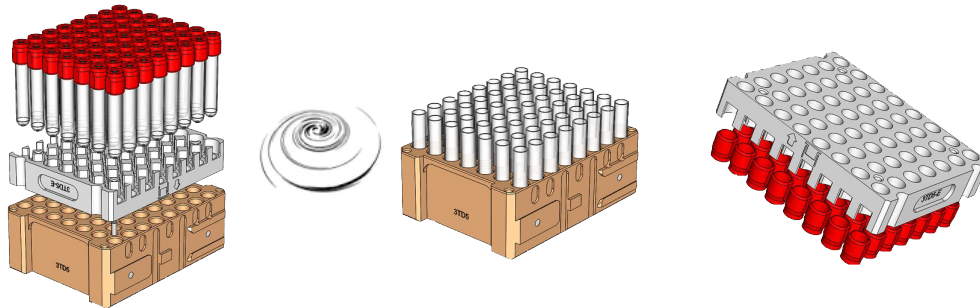


Hole Ø x L(mm)		-	-	-	-	-	-	-
Radius		164	160	-	-	-	-	-
Max Charge (gr)		1900		-	-	-	-	-
Ref.	AFI-RHD3	AFI-BHD3	AFI-3TD5*	AFI-3TD5-O	AFI-3TD5-E	AFI-3TD5-ES	AFI-3TD5-E + AFI-3TD5-P**	AFI-STICK10



* Set of 2

** Also possible AFI-3TD5-ES + AFI 3TD5-P

Tubes are automatically uncaped during centrifuge cycling. You can remove and trash all of them in same time.





Spécifications - Specifications				
Modèle - Model	Réfrigéré -Refrigerated		Réfrigéré de sol Refrigerated Floor version	
Centrifugeuses de paillasse et de sol <i>Benchtop & Floor centrifuges</i>				
Référence - Reference	AFI-C300R-E-VT	AFI-C300R-VT	AFI-C300RF-E-VT	AFI-C300RF-VT
Caractéristiques électriques - Electrical specifications				
Tension nominale - Nominal voltage (+/- 10%)	230 V	120 V	230 V	120 V
Fréquence - Frequency	50 Hz	60 Hz	50 Hz	60 Hz
Puissance alimentation max. - Power max.	1700 W (800W compressor)		1700 W (800W compressor)	
Conformité aux directives Européennes - Compliance with European directives				
98/79/CE : Dispositifs médicaux de diagnostic in vitro <i>In vitro diagnostic medical devices</i>	✓		✓	
2014/35/UE : Directive Basse Tension – Low Voltage 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)				
	Capacité max. <i>Max. capacity</i>	96 tubes 5ml		
	RPM max.	AFI-RHD3 AFI-BHD3	4600 rpm	4600 rpm
	ACR max <i>Max. RCF</i>		3785 g	3785 g
Couvercle - Lid	✓			
Dimensions & poids - Dimensions & Weight				
Dimensions (HxLxL) - Foot print Dimensions (HxWxD)	35 x 77 x 64 cm		83 x 57 x 68 cm	
Profondeur table – Table deep	60 cm		/	
Dimensions emballage (HxLxL) - Package dimension (HxWxD)	54 x 80 x 78 cm		100 x 74 x 78 cm	
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Poids net - Weight unpacked	145 kg		170 kg	
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Description de la centrifugeuse / Centrifuge description				
Référence - Reference	AFI-C300R-E-BB	AFI-C300R-BB	AFI-C300RF-E-BB	AFI-C300RF-BB
Ecran graphique tactile 4.3", couleur <i>4.3" graphic color screen</i>			✓	
Commandes <i>Commands</i>		Touches et écran tactile <i>Buttons and touchscreen</i>		
Contrôle par microprocesseur <i>Microprocessor control</i>			✓	
Fixation de rotor sans outil / <i>Toolless rotor fixing</i>		Système "ClickSpin®"		
Reconnaissance automatique du rotor <i>Automatic rotor recognition</i>			✓	
Détection de balourd <i>Imbalance detection</i>		Calibration ajustable (15g swing out et 3g rotors angulaires). Neutralisation automatique des vibrations liées à l'environnement. <i>Tunable calibration (15g for swing out & 3g for angular rotors). Automatic neutralization of vibrations due to environment</i>		
Mode économie d'énergie <i>Energy saving mode</i>			Mode "Postcool" désactivable <i>Desactivable "Postcool" mode</i>	
Fermeture motorisée du couvercle / <i>Motorized lid closing</i>			✓	
Fonction My IDEM (calcul d'intégral) <i>My IDEM function (Accumulated Centrifugal Effect)</i>			✓	
Durées de cycle <i>Cycle duration</i>		10 s à 99h:59min:59s & Impulsion <i>10 s to 99h:59min:59 s & Pulse</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>			✓	
Vitesse mini / Maxi <i>Mini / Max Speed</i>			300 / 4600 rpm	
Pas de réglage de la vitesse <i>Speed setting step</i>			10 rpm	
Précision de vitesse <i>Speed accuracy</i>			± 0.5%	
Nombre de programmes <i>Programs number</i>			99+2	
Fonction Pulse <i>Pulse (short run)</i>			✓	
Pentes d'accélération & de freinage <i>Acceleration & Braking slopes</i>			10 & 10	
Décélération libre <i>Brakeless mode</i>			✓	
Système de réfrigération <i>Cooling system</i>			Sans CFC <i>CFC free</i>	
Plage de réglage en température <i>Range of setting temperature</i>			-10°C → +40°C	
Fonction de pré-refroidissement <i>Precool function</i>			✓	
Précision en température <i>Temperature accuracy</i>			+/- 2°C	
Dissipation de chaleur maximale <i>Heat dissipation</i>			5801 BTU/h	
Niveau sonore max. <i>Max. noise</i>		≤ 60 dB (A)		≤ 57 dB (A)
Option Thermostatée 37°C			37°C +/-2°C	



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

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* 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.