

LOREENA

From Experience comes Excellence



BLOOD BANK
Centrifuge 4L

LOREENA

Blood Bank Centrifuge

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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	4637g
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-WL750	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 + Filtré	Simple Buffy coat
Bags per adapter / rotor	1 4	1 4	2 8
Adapter			
Hole LWH (mm)	196	193	193
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)	13x75 100	13x81 106	11x82 108	17x120	29x115
Ø x L (mm)	34 136			16 64	7 28
Tubes per adapter / rotor					
Adapter					
Hole Ø x L (mm)		13,5x58		18x80	30x70
Radius		176		196	196
Max Charge (gr)		1500			
Ref.		AFI-3T05		AFI-3T015C	AFI-3T050C

REINFORCED SECURITY

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

Poche de sang Poches satellites
Batôns 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)	8x82	11x38	12,5x40	10x45	13x75 100	13x81 106	11x82	15x91 108	16x100	21x90	17x120	17x120
Ø x L (mm)	33 132	56 224	33 132	40 160	27 108	37 148	37 148	21 84		13 52	14 56	16 64
Tubes per adapter / rotor												
Adapter												
Hole Ø x L (mm)	9x50	11,25x40	13x30	11x40	13,5x58	12,5x55	17x58	22x80	18x80	18x80		
Radius	198	140 195	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	100	150	200
Capacity (ml)	25x110	25x110	25x95	29x115	29x115	29x115	29x115	29x115	29x107	38x110	44x100 127	61x118 138	
Ø x L (mm)	7 28	5 20	7 28	7 28	6 24	6 24	7 28	6 24	7 28	4 16	2 8	1 4	
Tubes per adapter / rotor													
Adapter													
Hole Ø x L (mm)	26x60	26x60	26,5x70	30x70	30x70	30x70	30x70	30x70	30x70	40x78	46x80	62x80	
Radius	195	198	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-PPC0200CN/UC / NALGENE	AFI-B-PPC0200F	CORNING	AFI-B-PPC0250F	AFI-B-PPC0290F	CORNING	AFI-B-PPC0500F	AFI-B-PPC0625F	AFI-B-PPC0750F	AFI-B-PPC0750F	AFI-B-PPC0750F	AFI-B-PPC0750F
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	1 4
Adapter												
Hole Ø 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	-	-	-

DATA SHEET

Spécifications - Specifications				
Modèle - Model	Réfrigéré -Refrigerated		Réfrigéré de sol Refrigerated Floor version	
Centrifugeuses de paillasse et de sol Benchtop & Floor centrifuges				
Référence - Reference	AFI-C300R-E-BB	AFI-C300R-BB	AFI-C300RF-E-BB	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 In vitro diagnostic medical devices	✓		✓	
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		4x 750mL	
	Capacité max. Max. capacity			
	RPM max.	AFI-RX750 AFI-BO750	4600 rpm	4600 rpm
	ACR max Max. RCF		4637 g	4637 g
Couvercle - Lid	✓			
Dimensions & poids - Dimensions & Weight				
Dimensions (HxLxI) - Foot print Dimensions (HxWxD)	35 x 77 x 64 cm		83 x 57 x 68 cm	
Profondeur table – Table deep	60 cm		/	
Dimensions emballage (HxLxI) - 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-E-BB	AFI-C300RF-BB
Ecran graphique tactile 4,3", couleur 4.3" graphic color screen		✓		
Commandes Commands		Touches et écran tactile Buttons and touchscreen		
Contrôle par microprocesseur Microprocessor control		✓		
Fixation de rotor sans outil / Toolless rotor fixing		Système "ClickSpin®"		
Reconnaissance automatique du rotor Automatic rotor recognition		✓		
Détection de balourd Imbalance detection		Calibration ajustable (15g swing out et 3g rotors angulaires). Neutralisation automatique des vibrations liées à l'environnement. Tunable calibration (15g for swing out & 3g for angular rotors). Automatic neutralization of vibrations due to environment		
Mode économie d'énergie Energy saving mode		Mode "Postcool" désactivable Desactivable "Postcool" mode		
Fermeture motorisée du couvercle / Motorized lid closing		✓		
Fonction My IDEM (calcul d'intégral) My IDEM function (Accumulated Centrifugal Effect)		✓		
Durées de cycle Cycle duration		10 s à 99h:59min:59s & Impulsion 10 s to 99h:59min:59 s & Pulse		
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		✓		
Vitesse mini / Maxi Mini / Max Speed		300 / 4600 rpm		
Pas de réglage de la vitesse Speed setting step		10 rpm		
Précision de vitesse Speed accuracy		± 0.5%		
Nombre de programmes Programs number		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		Sans CFC CFC free		
Plage de réglage en température Range of setting temperature		-10°C → +40°C		
Fonction de pré-refroidissement Precool function		✓		
Précision en température Temperature accuracy		+/- 2°C		
Dissipation de chaleur maximale Heat dissipation		5801 BTU/h		
Niveau sonore max. Max. noise		≤ 60 dB (A)		≤ 57 dB (A)
Option Thermostatée 37°C		37°C +/- 2°C		