

CONTROLTECNICA

AFI present **KATRINA**
THE GENERATION

CENTRIFUGE BLOOD BANK

From Experience comes Excellence



**Made in
France**



KATRINA



KATRINA, AFI's Topnotch Centrifuge

Designed to meet all needs related to blood treatment and optimized to reach the highest level of performance, while remaining ergonomic and user-friendly.



1

KATRINA, the New Generation in Centrifuge for your Transfusion Centers

Optimally designed by a group of French experts, KATRINA is a safe and easy alternative to your old centrifuges. Katrina meets validated protocol and international standards.



KATRINA, Quality that Speaks for Itself

The « IDEM » application combined with PFC (Power Factor Control) technology ensures cycle reproducibility, making KATRINA the ideal centrifuge for simple and productive blood treatment.





A Blood Bank with You in Mind!

Discover the new AFI centrifuge designed for blood banks and tailored to meet your needs

KATRINA, with its large Smartphone-like screen, ensures seamless **communication** between user and device.

Backlight display for better visibility

Programming is made **simple** with the use of one screen that grants direct access to all cycle parameters.

Also compatible with **gloves**

3



Security/Simplicity

User-friendly and easy to program with intuitive, subtitled icons.

Program names for quick access to the different cycles.

Quick access to the «**IDEM**» function



Security/Privacy

Multiuser, password protected access control for protocol protection



Assisted Security

The access button located directly on the device allows the user to easily and safely open and close the cover of the centrifuge



Security/Traceability

The **“My AFI”** application allows the user to pull up data and protocols, trace back cycles, and register error and maintenance alerts and user aids. The user can also transfer programs onto other devices.



Recreating Cycles With «IDEM»

- The «IDEM» series application guarantees a perfect cycle reproduction.
- Whatever the environment (rotor change, partial bag change, voltage, age of the machine) the «IDEM» app guarantees identical results for all your cycles
- «IDEM» measures the amount of pressure placed on the bags after a centrifugation
- «IDEM» automatically adjusts the cycle period to reach the desired pressure level on the bags. A green check mark tells the user that the cycle is complete.

PFC Technology

- Innovative electronics

PFC ensures that the machine functions seamlessly and that cycles continue to run even in the case of an electrical system modification.

4L A 6L



5

KATRINA

A Newfound Tradition

- Made in FRANCE
- Available in two sizes
 - 6 x 1 L capacité Maximum
 - 4 x 2 L capacité Maximum
- Multi adaptateurs
- Automatic locking system
- Large, bright, tactile screen
- Applications MyIDEM, MyAFI
- Noise level < 61dB(A)
- Dimensions Refrigerated Model
 - Hauteur : 945 mm
 - Width : 780 mm
 - Depth : 900 mm

Centrifuge	Description
AFI-C600R-2P	KATRINA Blood Blanking Centrifuge 6 x 1L - 230V 50Hz



ROTOR 6 x 1L



KATRINA Accessoires	RX6-1000	BO6-1000	BR6-1000	BS6-1000
Capacité du rotor (Emplacements x volume en mL)		12 x 500 mL poche de sang (6 x 1000 mL)*	6 x 1000 mL	48 Microplaques
Vitesse maximale (tr/min)		4.300 rpm	4.300 rpm	4.300 rpm
FCR maxi (x g)		5.809 x g	5.747 x g	5.416 x g
Biocontaiment			✓	✓

* Le volume des poches de sang inclut les satellites et les filtres. Le volume total de la nacelle est d'environ 1000ml

Transfusion

Poches Quadruples 500ml	12 x 500mL	-	-
Poches Quintuples 450ml	12 x 450mL	-	-
Buffy Coat ou plasma riche en plaquettes Poches Simple 300ml	12 x 250mL 12 x 300mL	-	-
Poches Simples 750ml Poches Quadruples 500ml	6 x 750mL 6 x 500mL	-	-
Poches Quintuples 500ml	6 x 500mL	-	-
Poches Quadruples/Quintuples 550ml	6 x 550mL	-	-

Biochimie

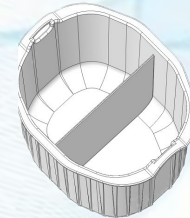
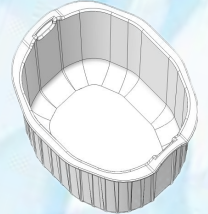
1000mL Flat Bottle	6	6	-
750mL Flat Bottle	6	6	-
625mL AFI Flat Bottle	6	6	-
500mL Flat Bottle	6	6	-
500mL Conical Bottle	6	6	-
400 mL Flat Bottle	6	6	-
290mL Flat Bottle	6	6	-
250mL Flat Bottle	6	6	-
250mL Conical Bottle	6	6	-
200mL Flat Bottle	-	6	-
200mL Conical Bottle	-	6	-
150mL Conical Bottle	-	6	-
100mL Conical Bottle	-	6	-
50mL Conical Tube	-	42	36
50mL Skirted Conical Tube	-	42	-
50mL AOR Advanced Oak Ridge	-	42	36
30mL Skirted Conical Tube	-	42	36
15mL Conical Tube	-	84	90
Standard Microplate	-	-	48
DeepWell Microplate	-	-	12

ROTOR 6 x 1L



RX6-1000 Swinging Bucket Rotor

Centrifuge	Couvercle	Maximum Speed (rpm)	Maximum RCF (x g)
KATRINA	O	4.300	5.809
	N	3.800	4.536



7

Cat N°	Adapter image	Description	Rotor capacity	Max tube Dimensions (ø x L mm)
Rotor				
AFI-RX6-1000	-	Swinging Bucket Rotor cross	-	-
AFI-LRX6	-	Lid Rotor cross	-	-
AFI-BO6-1000		Oval Buckets	-	-
AFI-LIS6-1000		Panier avec cloison.	12 x 500mL	-
AFI-LI6-1000		Panier sans cloison.	6 x 1 L	-
Adaptateurs de volume clipsable pour panier avec cloison - set of 6				
AFI-6TS500-LIS	1	Poches Quadruples 500ml	12 x 500mL	-
AFI-6TS450-LIS	2	Poches Quintuples 450ml	12 x 450mL	-
AFI-6TS300-LIS	3	Buffy Coat ou plasma riche en plaquettes	12 x 250mL	-
		Poches Simple 300ml	12 x 300mL	-
Adaptateurs de volume clipsable pour panier sans cloison - set of 6				
AFI-6T750-LI	4	Poches Simples 750ml	6 x 750mL	-
		Poches Quadruples 500ml	6 x 500mL	-
AFI-6T500-LI	5	Poches Quintuples 500ml	6 x 500mL	-
AFI-6T550-LI	6	Poches Quadruples/Quintuples 550ml	6 x 550mL	-
Accessoires pour paniers - set of 12				
AFI-PLK	-	Plaque de callage	-	-
Adaptateurs pou Nacelle BO6-1000				
AFI-6T750F	7	750mL Flat Bottle	6 x 750mL	98x135
AFI-6T625F	8	625mL AFI Flat Bottle	6 x 625mL	92x136
AFI-6T500F	9	500mL Flat Bottle	6 x 500mL	92x136
AFI-6T500C	10	500mL Conical Bottle	6 x 500mL	92x136
AFI-6T400F	11	400 mL Flat Bottle	6 x 400mL	100.5 x 145
AFI-6T290F	12	290/250mL Flat bottle	6 x 290mL	62x148
AFI-6T250C	13	250mL Conical Bottle	6 x 250mL	70x148



ROTOR 6 x 1L



RX6-1000 Swinging Bucket Rotor



Centrifuge	Couvercle	Maximum Speed (rpm)	Maximum RCF (x g)
KATRINA	O	4.300	5.747
	N	3.800	4.488



Cat N°	Adapter image	Description	Rotor capacity	Dimensions (ø x L mm)
Rotor				
AFI-RX6-1000	-	Swinging Bucket Rotor cross	-	-
AFI-LRX6	-	Lid Rotor cross	-	-
AFI-BRG-1000	-	Round Buckets	-	-
AFI-LRG-1000	-	Biosafety secured lid for BRG-1000 set of 6	-	-
Adapters set of 6				
-	-	750 mL Flat Bottle	6 x 750 mL	98x135
AFI-6T625F-RB	1	625 mL Flat Bottle (AFI)	6 x 625 mL	92x136
AFI-6T625F-RB	1	500 mL Flat Bottle	6 x 500 mL	92x136
AFI-6T500C-RB	2	500 mL Conical Bottle	6 x 500 mL	92x136
AFI-6T400F-RB	3	400 mL Flat Bottle	6 x 400 mL	100,5 x 145
AFI-6T290F-RB	4	290 mL Flat Bottle	6 x 290 mL	62x148
AFI-6T250C-RB	5	250 mL Conical Bottle	6 x 250 mL	60x149
AFI-6T200F-RB	6	200 mL Flat Bottle	6 x 200 mL	56x150
AFI-6T200C-RB	7	200 mL Conical Bottle	6 x 200 mL	60x149
AFI-6T200C-RB	7	150 mL Conical Bottle	6 x 150 mL	60x149
AFI-6T100C-RB	8	100 mL Conical Bottle	12 x 100 mL	56x150
AFI-6T50C-RB	9	50 mL Conical Tube	42 x 50 mL	30x134
AFI-6T50AOR-RB	10	50mL AOR Advanced Oak Ridge	42 x 50 mL	29x134
AFI-6T50S-RB	11	50 mL Skirted Conical Tube	42 x 50 mL	30x137
AFI-6T30S-RB	12	30mL Skirted Conical Tube	42 x 30 mL	25x140
AFI-6T15C-RB	13	15mL Conical Tube	84 x 15 mL	17x135





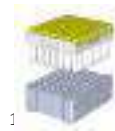
PlateFORM Swinging Bucket Rotor

Centrifuge	Maximum Speed (rpm)	Maximum RCF (x g)
KATRINA	3.300	2.300



9

Cat N°	Adapter image	Description	Rotor capacity	Max tube Dimensions (ø x L mm)
Rotor				
AFI-RHD6	-	Swinging Bucket Rotor cross	-	-
AFI-BHD6	-	Microplate Carrier	32 Microplaques	-
Adapters set of 2				
AFI-6TD5	1	Veterinary adapters pack	224 x 5 mL	13 x 120
AFI-6TD5-E	1	Automatic Tube Opening System	224 x 5 mL	-
AFI-6T5-PF	2	5-7mL Blood Collection Tube	320 x 5 mL	13 x 120
AFI-6T3-PF	3	3mL Blood Collection Tube	432 x 3 mL	11 x 50



Fiche Technique Technical Data

KATRINA

6 x 1000 ML /
4 x 2000 ML CENTRIFUGE



Spécifications / Specifications		
Modèle / Model		Réfrigéré / Refrigerating
Centrifugeuse de sol / Floor stand centrifuge		
Référence / Reference		AFI-C600R-2P AFI-C600R-3P
Caractéristiques électriques / Electrical specifications		
Tension nominale / Nominal voltage (+/- 10%)	200, 208, 220, 230, 240V - Single phase	380, 400, 415V - 3 phase
Fréquence / Frequency	50/60 Hz	50 Hz
Puissance alimentation max. / Power max.	5700 W (1300W compressor)	5700 W (1300W compressor)
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	✓	✓
93/42/CE : Dispositifs médicaux / Medical device	✓	✓
Caractéristiques principales (voir brochure) / Main specifications (see brochure for full specification)		
Rotors/Swing-out rotors 6 x 1L	Capacité max. / Max. capacity	 6x1000ml 12x500ml quad/triple bags 6x550ml quin/quad bags
	RPM max. ACR max / Max. RCF	4300rpm 5809xg
Rotors/Swing-out rotors 4 x 2L	Capacité max. / Max. capacity	 4x2000ml 8x500ml quad/triple bags 4x550ml quin/quad bags
	RPM max. ACR max / Max. RCF	4400rpm 5498xg
H Rotors Swing-out / Swing-out rotors H	Capacité max. / Max. capacity	 x 5/7ml
	RPM max. ACR max / Max. RCF	3300rpm 2300xg
Confinement biologique / Biocontainment		✓
Dimensions & poids / Dimensions & Weight		
Dimensions (HxLxL) / Dimensions (HxWxD)		945 x 780 x 900 mm
Dimensions emballage (HxLxL) / Package dimension (HxWxD)		1170 x 900 x 1020 mm
Hauteur couvercle ouvert / Opened lid height		1600 mm

10

Fiche Technique
Technical Data

KATRINA

6 x 1000 ML /
4 x 2000 ML CENTRIFUGE



Poids net / Weight unpacked	352 Kg
Poids emballé / Weight packed	380 kg

Description de la centrifugeuse / Centrifuge description	
Référence / Reference	
Ecran graphique tactile 5.7", couleur 5.7" graphic color screen	✓
Commandes / Commands	Touches et écran tactile Buttons and touchscreen
Contrôle par microprocesseur / Microprocessor control	✓
Reconnaissance automatique du rotor / Automatic rotor recognition	
Tolerance de déséquilibre / Imbalance tolerance	125g dans des charges opposées / in opposite loads
Fermeture motorisée du couvercle / Motorized lid closing	✓
Fonction My IDEM (Calcul d'intégral My IDEM function (Accumulated Centrifugal Effect)	✓
Modes	Au démarrage, au démarrage vitesse/durée / At start, at speed, time start
Barcode reader for user and sample identification, serial link interface for identification and cycle information real-time download (LIMs, PC)	✓
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 ³
Moteur à induction sans charbon / Brushless induction motor	✓
Précision de vitesse / Speed accuracy	± 0.5%
Nombre de programmes / Programs number	120
Pentes d'accélération & de freinage Acceleration & Braking slopes	11 & 12
Décélération libre / Brakeless mode	✓
Système de réfrigération / Cooling system	Sans CFC / Without CFC
Plage de réglage en température / Range of setting temperature	-20°C → +40°C
Fonction de pré-refroidissement / Precool function	✓
Précision en temperature / Temperature accuracy	+/- 1°C
Dissipation de chaleur maximale / Heat dissipation	19449 BTU/h
Energie cinétique / Kinetic energy	148 kJ
Niveau sonore max. / Max. noise	≤ 61 dB(A)
Environnement et respect écologique	✓

