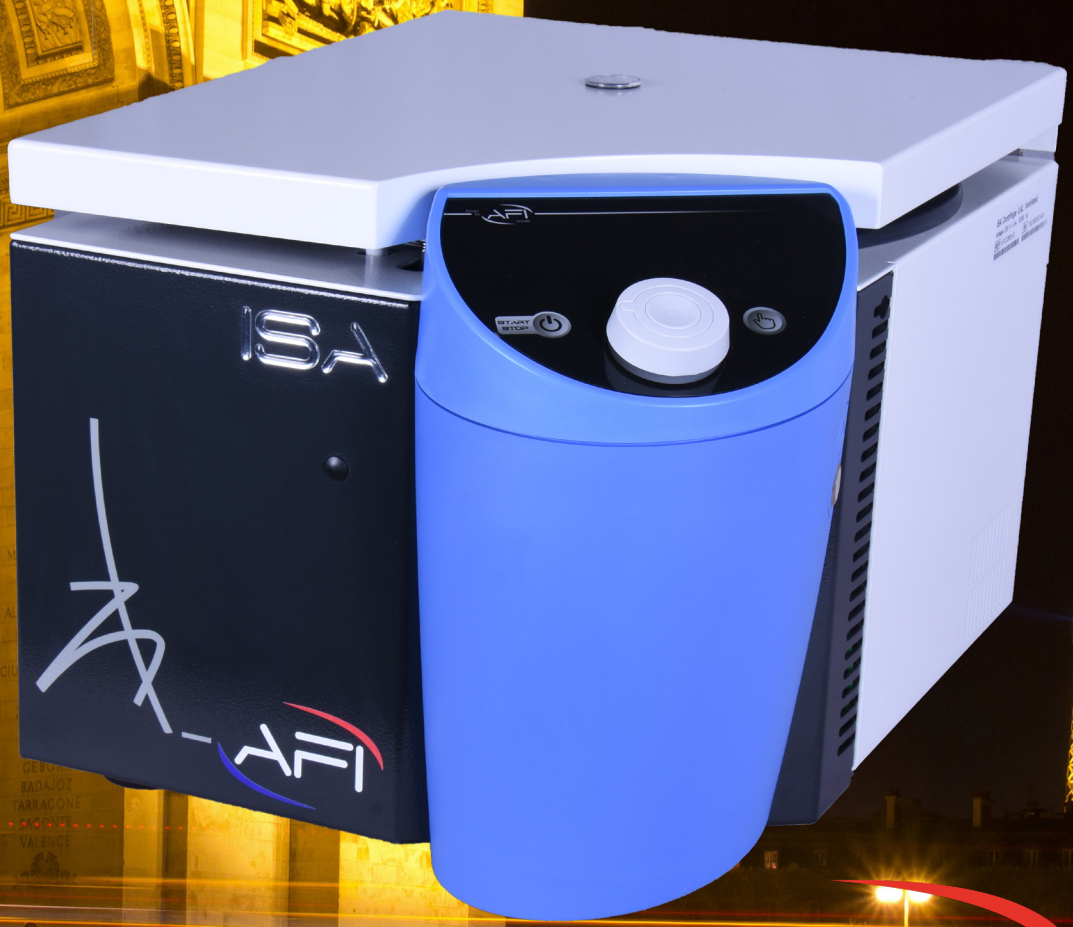
AFI presents

THE GENERATION

ISA

CENTRIFUGES FOR CLINIC AND CHEMISTRY

From Experience comes Excellence



2024

AFI Groups

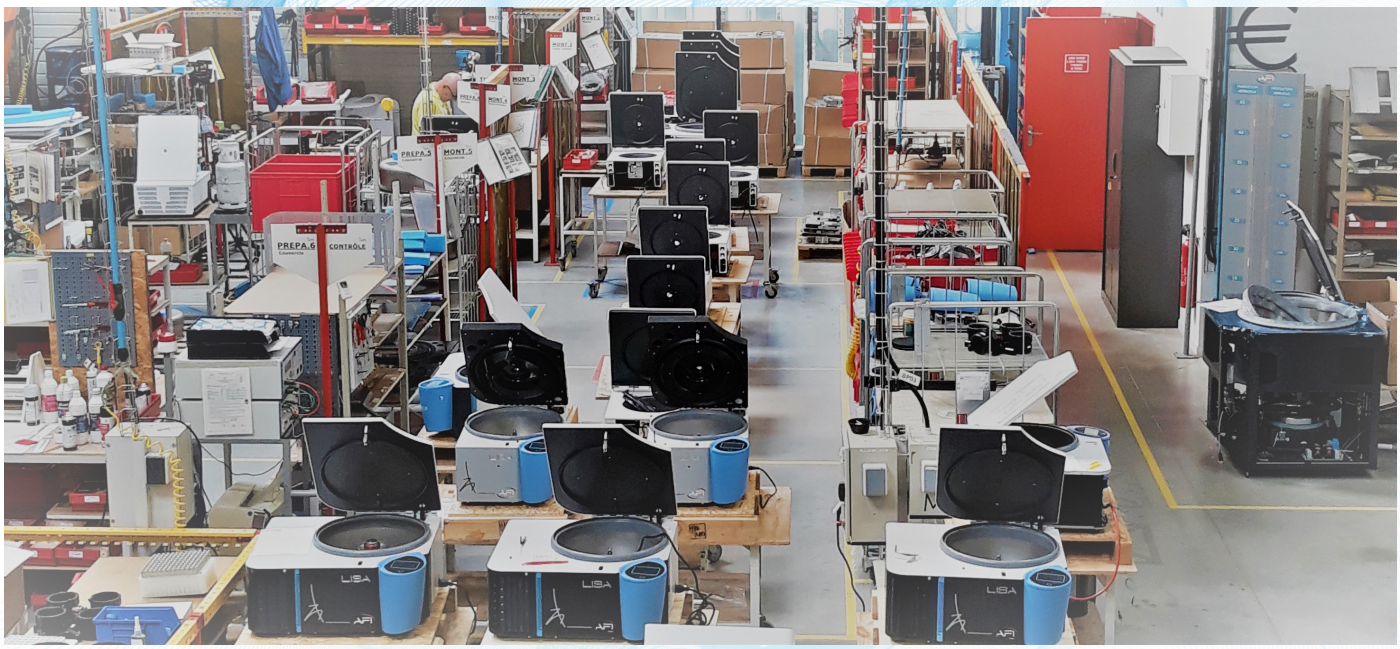
AFI GROUPS

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



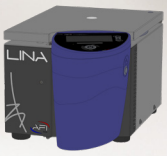
Philippe LE GUYADER

CENTRIFUGES RANGE



LIA
Micro Centrifuges*

Mini, Micro & Labo



LINA
Research Centrifuge

Micro & multifonction



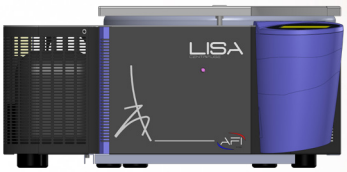
SIRENA
Centrifuge MultiLab

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

*OEM products

A quick overview

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

Routine
Hospitals/ Medical analysis laboratories



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

ISA

Centrifuge COMPACT-LINE



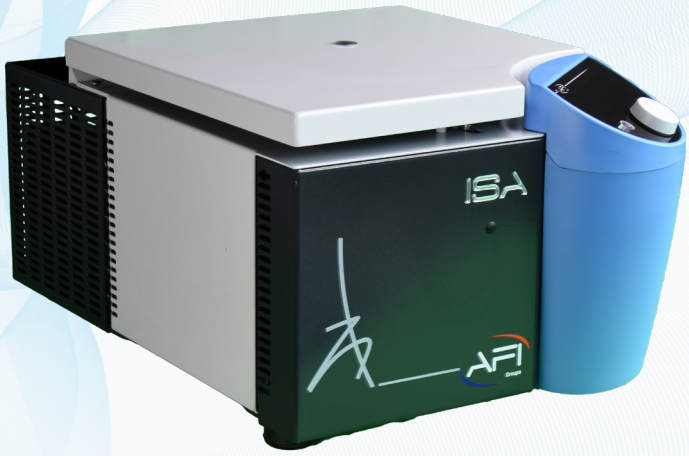
ALL OF A BIG
ISA will be indispensable for your daily laboratory tasks in small offices and hospitals. Up to 40 5/7mL tubes can be centrifuged in dedicated applications.

POLYVALENT
It is ideal for clinical chemistry but will also find its place in research laboratories with its range of angle rotors 15mL, 50mL, 85mL, no tube can resist it.

COMPACT
Thanks to its compactness and small size, ISA will be discreet and easy to place on your benches. It will go from 0.4 to 0.6L and thus provide support on a rise in activity.

Centrifuge Description		
AFI-CI060V-E	ISA Centrifuge Ventilated	
AFI-CI060R-E	ISA Centrifuge Refrigerated	
AFI-CI060RH-E	ISA Centrifuge Heated	
Specifications	Swing-out rotor	Angular Rotor
Max Speed	4500rpm	6700rpm
Max RCF	3396g	6331g
Max Loading	4x150ml	6x85ml
Dim. (HxWxD)	34x39x51cm	
Pack dim.	47x47x70cm	
Weight	40kg	

SMALL AND CUTE
Its small and cute design will seduce you. The central wheel and large display will make your navigation easier. She will become your best friend.



CITOLOGY APPLICATION
Citology application is available on ISA, thanks to the dedicated rotor. You can centrifuge 12 simple or doble funnels.

Reversible centrifuge
Refrigerated & heated



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

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 7 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.

AFI-CI060RH-E ISA Centrifuge Heated (reversible technology)

Specifications	Swing-out rotor	Angular Rotor
Max Speed	4500rpm	6700rpm
Max RCF	3396g	6331g
Max Loading	4x150ml	6x85ml
Dim. (HxWxD)	34x39x51cm	
Pack dim.	47x47x70cm	
Weight	40kg	

ULTRA FAST temperature rise

< 9 mn from 20°C to 37°

< 7 mn from 20°C to 4°C





Our best compact clinical centrifuge

Its major assets

6 reasons to choose it

COMPACT

Thanks to its compactness and small size, ISA will be perfect for your laboraotry tasks. Up to 40 tubes 5/7 mL can be centrifuged.

INTERNATIONAL AUTOMATIC ELECTRICAL CORRECTION

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

INTERACTIVE DISPLAY

With its digital LCD display, tilted for better visibility, ISA will help you to get started with the machine.

A real pleasure of simplicity.

USB CONNECTION

Updating centrifuges by a simple USB connection on the front panel.

THE BLUE BOX

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

SMART COLOR COMMUNICATION

With its unique illuminated displays, ISA will monitor your samples and confirm whether or not the cycle is running smoothly



	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		
LINA V	✓		
LINA R	✓		
ISA V	✓		
ISA R	✓		
SIRENA	✓		
LISA V	✓		
LISA R		✓	
LOREENA V		✓	
LOREENA R			✓

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.

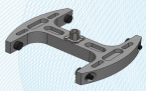
The large drawers allow you to place all your accessories.

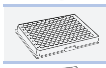
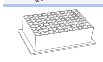
These furniture are for you !

Swinging bucket rotors

Accessories selection guide



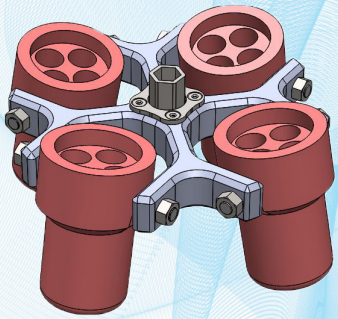



ISA ACCESSORIES			AFI-RXN100	AFI-RXN150			AFI-RHDW-N150	AFI-RCYTO-N150
								
ISA ACCESSORIES			-	AFI-B150	AFI-SB150	AFI-DB50*	AFI-BHDW-N150*	-
Max Capacity (ml)			4x100	4x150	4x150	8x50	8 Microplates	12 Funnels
Max Charge (gr)				260	260	2x67	575	
Max Speed (rpm)			4 100	4 500	4 500	4 500	4 500	2 000
Max RCF (g)			2 932	3 396	3 419	3 464	2 400	438
Cavity dim (ØxD) or (WxLxD)				Ø51x97	52x52x97	Ø30x70	91x132x35	
Lid				✓	✓			
Acc/ Dec (s)			55 | 55	70 | 60				
Tubes	ml	Ø x L						
	**1,1-1,4**	8x82	32	32	36	24	-	-
	**1,5-2**	11x38	-	48	72	24	-	-
	**1,5-2**	12,5x40	-	32	36	24	-	-
	**1,3**	10x45	32	32	36	24	-	-
	**1,6-7**	13x75-100	40	24	36	8	-	-
	**2,6-4,9**	13x81-106	40	24	36	8	-	-
	**1,2-5**	11x82-108	40	24	36	8	-	-
	**4-8,5**	15x91-108	28	16	24	8	-	-
	**7-10**	16x100	28	16	24	8	-	-
	**10**	21x90	-	12	16	8	-	-
	**15**	17x120	12	8	8	8	-	-
	**30**	25x110	-	4	4	8	-	-
	**30**	25x110	-	4	4	8	-	-
	**30**	25x95	-	4	4	8	-	-
	**50**	29x115	-	4	4	8	-	-
	**50**	29x115	4	4	4	8	-	-
	**50 OAK**	29x107	-	4	4	8	-	-
	**80 OAK85 OAK**	38x106	-	4	4	8	-	-
	**100**	44x100	4	-	-	-	-	-
	**Micro Plates**		-	-	-	-	8	-
	**Deep Well**		-	-	-	-	2	-
	**Funnel**		-	-	-	-	-	12

* Unsealed

AFI RXN-100

Adapters selection guide



DEDICATED PLASTIC BUCKETS

Model	V	R
Max Capacity	4 x 100ml	
Angle	90°	
RPM Max	4 100	4 100
ACR Max	2 932	2 932

Accessories

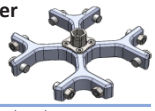
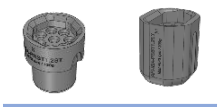
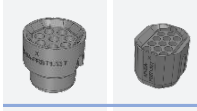


Ref.	AFI-RXN100

Tubes



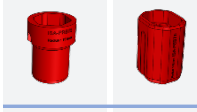
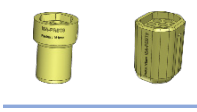



Capacity (ml)	1,1-1,4		1,3		5	1,6-5		5-7	
Ø x L (mm)	8x82		10x45		12x75	13x75		13x100	
Tubes per adapter / rotor	8|32	13|52	8|32	13|52	13|52	7|28	10|40	7|28	10|40
Adapter									
Hole Ø x L(mm)	9,5x55	9,5x55	11x40	11x40	13,5x58	13,5x58	13,5x58	13,5x80	13,5x80
Radius (mm)	120	125	99	100		131	132	141	143
Max Charge (gr)	120	200	80g	200		120	200	120	200
Ref.	**ISA-PRBT1**	**ISA-PSBT1**	**ISA-PRBT1.3**	**ISA-PSBT1.3**	**ISA-PSBT5-G12**	**ISA-PRBT5**	**ISA-PSBT5**	**ISA-PRBT6**	**ISA-PSBT6**

Tubes





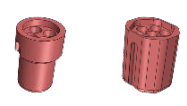
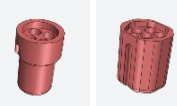
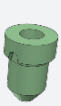
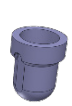

Capacity (ml)	2,6-4,9		5-7		2,7-3		4,5-5	
Ø x L (mm)	13x81		13x100		11x82		11x108	
Tubes per adapter / rotor	7|28	10|40	7|28	10|40	8|32	13|52	8|32	13|52
Adapter								
Hole Ø x L(mm)	13,5x58	13,5x58	13,5x80	13,5x80	12,5x55	12,5x55	12,5x80	12,5x80
Radius (mm)	131	132	141	143	120	125	137	139
Max Charge (gr)	120	200	120	200	120	200	120	200
Ref.	**ISA-PRBT5**	**ISA-PSBT5**	**ISA-PRBT6**	**ISA-PSBT6**	**ISA-PRBT5ST**	**ISA-PSBT5ST**	**ISA-PRBT6ST**	**ISA-PSBT6ST**

Tubes



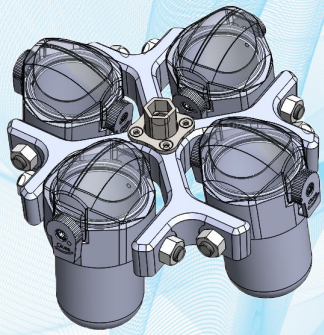




Capacity (ml)	4-8,5		7-10		15	50	100	
Ø x L (mm)	15x91|108		16x100		17x120	29x115	44x100	
Tubes per adapter / rotor	4|16	7|28	4|16	7|28	3|12	1|4	1|4	
Adapter								
Hole Ø x L(mm)	17,5x 80	17,5x 83	17,5x 80	17,5x 83	18x80	30x70	46x80	
Radius (mm)	142	145	142	145	156	147	147	
Max Charge (gr)	120	200	120	200	100	120	200	
Ref.	**ISA-PRBT10**	**ISA-PSBT10**	**ISA-PRBT10**	**ISA-PSBT10**	**ISA-PRBT15C**	**ISA-PRBT50C**	**ISA-PRBT100**	

AFI RXN-150

Adapters selection guide



AFI-B150 : ROUND BUCKETS

Model	V	R
Max Capacity	4 x 150ml	
Angle	90°	
RPM Max	4 500	4 500
ACR Max	3 396	3 396

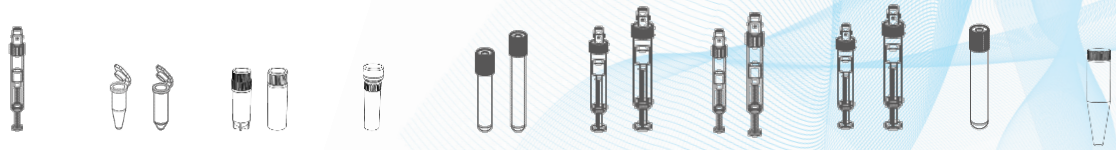
Accessories

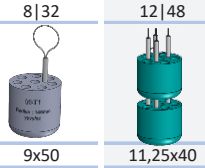


Ref.	AFI-RXN150	AFI-B150*	AFI-L150*	AFI-SB150*	AFI-LSB150*	AFI-DB50*

* Set of 4

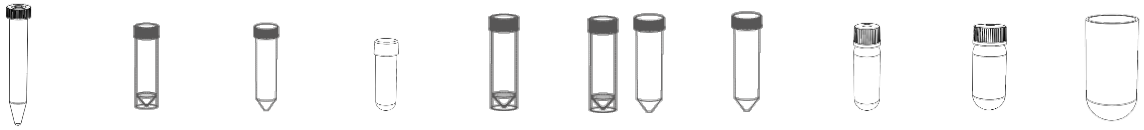
Tubes

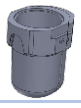
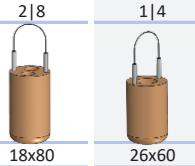


Capacity (ml)	1,1-1,4	1,5-2	1,5-2	1,3	1,6-7	2,6-4,9	1,2-5	4-8,5	7-10	10
Ø x L (mm)	8x82	11x38	12,5x40	10x45	13x75|100	13x81|106	11x82 |108	15x91|108	16x100	21x90
Tubes per adapter / rotor	8|32	12|48	8|32	9|36	7|28		8|32	4|16		3|12
Adapter										
Hole Ø x L(mm)	9x50	11,25x40	13x30	11x40	13,5x58		12,5x55	17x58		22x80
Radius 150	145	90|145	125	143	148		140	148		150
Max Charge (gr) 260										
Ref.	AFI-06T1	AFI-06T2	AFI-06T2CRYO	AFI-06T1.3	AFI-06T5*		AFI-06T5ST*	AFI-06T10		AFI-06T10C

* For tube lenght > 80mm and ACR > 3000g, we preconise using adapter AFI-06T6 or AFI-06T6ST

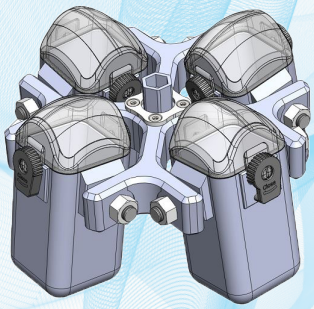
Tubes



Capacity (ml)	15	30	30	30	50	50	50	50	80 / 85	100
Ø x L (mm)	17x120	25x110	25x110	25x95	29x115	29x115	29x115	29x107	38x106	44x100
Tubes per adapter / rotor	2|8	1|4	1|4	1|4	1|4	1|4	1|4	1|4	1|4	1|4
Adapter										
Hole Ø x L(mm)	18x80	26x60	26x60	26,5x70	30x70	30x70	30x70	30x70	40x78	46x90
Radius 150	150	148	147	148	149	149	150	149	149	148
Max Charge (gr) 260										
Ref.	AFI-06T15C	AFI-06T30S	AFI-06T30C	AFI-06T30AOR	AFI-06T50S	AFI-06T50CS*	AFI-06T50C	AFI-06T50AOR	AFI-06T80AOR	AFI-06T100

* For protocols < 3500g

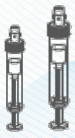
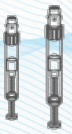
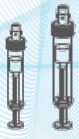
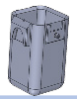
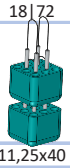
AFI-SB150 : SQUARE BUCKETS



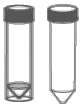
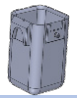
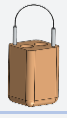
Model	V	R
Max Capacity	4 x 150ml	
Angle	90°	
RPM Max	4 500	4 500
ACR Max	3 419	3 419

Accessories						
						
Ref.	**AFI-RXN150**	**AFI-B150***	**AFI-L150***	**AFI-SB150***	**AFI-LSB150***	**AFI-DB50***

* Set of 4

Tubes										
										
Capacity (ml)	**1,1-1,4**	**1,5-2**	**1,5-2**	**1,3**	**1,6-7**	**2,6-4,9**	**1,2-5**	**4-8,5**	**7-10**	**10**
Ø x L (mm)	8x82	11x38	12,5x40	10x45	13x75|100	13x81|106	11x82 |108	15x91|108	16x100	21x90
Tubes per adapter / rotor	9|36	18|72	9|36	9|36	9|36		9|36	6|24		4|16
Adapter										
Hole Ø x L(mm)	9x50	11,25x40	13x30	11x40	13,5x58		12,5x55	17x58		22x80
Radius 151	145	90|145	125	141	148		146	148		150
Max Charge (gr) 260										
Ref.	**AFI-06T1-SB**	**AFI-06T2-SB**	**AFI-06T2CRYO-SB**	**AFI-06T1.3-SB**	**AFI-06T5-SB***		**AFI-06T5ST-SB**	**AFI-06T10-SB**		**AFI-06T10C-SB**

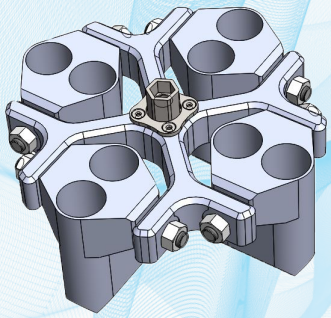
* For tube lenght > 80mm and ACR > 3000g, we preconise using adapter AFI-06T6-SB or AFI-06T6ST-SB

Tubes										
										
Capacity (ml)	**15**	**30**	**30**	**30**	**50**	**50**	**50**	**50**	**80 / 85**	**100**
Ø x L (mm)	17x120	25x110	25x110	25x95	29x115	29x115	29x115	29x107	38x106	44x100
Tubes per adapter / rotor	2|8	1|4	1|4	1|4	1|4	1|4	1|4	1|4	1|4	1|4
Adapter										
Hole Ø x L(mm)	18x80	26x60	26x60	26,5x70	30x70	30x70	30x70	30x70	40x78	46x90
Radius 151	150	148	147	178	149		150	149	149	149
Max Charge (gr) 260										
Ref.	**AFI-06T15C-SB**	**AFI-06T30S-SB**	**AFI-06T30C-SB**	**AFI-06T30AOR-SB**	**AFI-06T50S-SB**	**AFI-06T50CS-SB***	**AFI-06T50C-SB**	**AFI-06T50AOR-SB**	**AFI-06T80AOR-SB**	**AFI-06T100-SB**

* For protocols < 3500g

AFI RXN150 + DB50

Adapters selection guide



AFI-RXN150 + DB50

AFI-DB50 : CONICAL BUCKETS

Model	V	R
Max Capacity	4 x 150ml	
Angle	90°	
RPM Max	4 500	4 500
ACR Max	3 464	3 464

Accessories








Ref.	AFI-RXN150	AFI-B150*	AFI-L150*	AFI-SB150*	AFI-LSB150*	AFI-DB50*

* Set of 4

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**
Ø 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







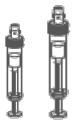






Hole Ø x L(mm)	9x50	11,25x40	13x30	11x40	13,5x58		12,5x55	13,5x78	13,5x78	12,5x80	22x80
Radius 153	131	106	96	96	124		121	124	124	141	150
Max Charge (gr) 2x67											
Ref.	**AFI-50R1-2**	**AFI-50R2-2**	**AFI-50R2CRYO-2**	**AFI-50R1.3-2**	**AFI-50R5-2**		**AFI-50R5ST-2**	**AFI-50R7-2**	**AFI-50R7-2**	**AFI-50R6ST-2**	**AFI-50R10C-2**

Tubes












Capacity (ml)	**4-8,5**	**7-10**	**10**	**15**	**30**	**30**	**30**	**50**	**50**	**50**
Ø x L (mm)	15x91|108	16x100	16x85	17x120	25x110	25x110	25x95	29x115	29x115	29x107
Tubes per adapter / rotor	1|8		1|8	1|8	1|8	1|8	1|8	1|8	1|8	1|8

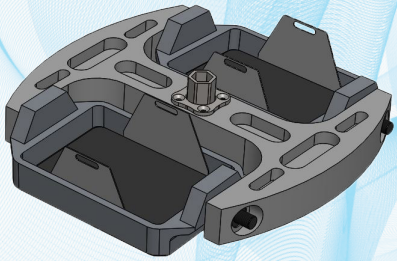
Adapter




Hole Ø x L(mm)	17x78		17x70	18x80	26x60	26x60	26,5x70	30x70	30x70	30x70
Radius 153	134		134	152	134	140	143	134	152	142
Max Charge (gr) 2x67										
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**

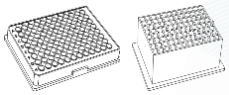
MICROPLATES

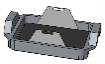
Accessories selection guide



AFI-RBHDWN-150 : 8 MICROPLATES

Model	V	R
Max Capacity	-	
Angle	90°	
RPM Max	4 500	4 500
ACR Max	2 400	2 400



Microplates				
Capacity (ml)	-	-	-	-
Max Height (mm)	-	-	55	55
Tubes per adapter / rotor	-	-	4|8	1|2
Accessories				
				
Hole Ø x L(mm)	-	-	-	
Radius 106	-	-	106	
Max Charge (gr)			575	
Ref.	**AFI-RBHDW-N150**	**AFI-RHDW-N150**	**AFI-BHDW-N150***	

* Set of 2

FIXED ANGULAR ROTOR

Accessories selection guide

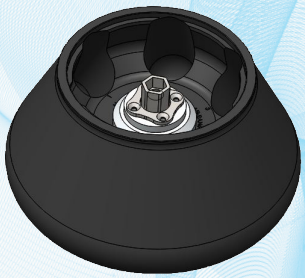






ISA ACCESSORIES			AFI-RAN6-85	AFI-FAN6-50	AFI-RAN6-50	AFI-RAN12-15	AFI-RAN30-15
Max Capacity (ml)			6x85	6x50	6x50	12 tubes	30x 15
Max Speed (rpm)			6 700	5 600	5 600	6 700	4 500
Max RCF (g)			5 320	4 383	4 383	6 324	3 328
Lid				✓			
Acc/ Dec (sde)					140 | 90	110 | 100	
Tubes	ml	Ø x L					
	**0,2-0,25**		-	-	-	-	
	**0,5**		-	-	-	-	
	**1,1-1,4**	8x82	12	18	18	-	
	**1,5-2**	11x38	24	18	18	-	
	**1,5-2**	12,5x40	24	18	18	-	
	**1,6-5**	13x75	12	6	6	12	30
	**5-7**	13x100	12	6	6		30
	**2,6-4,9**	13x81-106	112	6	6	-	
	**1,2-5**	11x82-108	12	6	6	-	
	**5**	16,5x60	-	-	-	-	
	**4-8,5**	15x91-108	12	6	6	-	
	**10**	16x100	12	6	6	12	30
	**10 OAK**	16x85	6	6	6		
	**10**	21x90	6	6	6	-	
	**15**	17x120	6	6	6	12	30
	**30**	25x110	6	6	6	-	
	**30**	25x110	6	6	6	-	
	**30 OAK**	25x95	6	6	6	-	
	**50**	29x115	6	6	6	-	
	**50 OAK**	29x107	6	6	6	-	
	**80 OAK** **85 OAK**	38x106	6	-	-	-	
	**94**	38x102	6	-	-	-	

Angular rotor 6x85ml - 28°



Model	V	R
Max Capacity	6 x 85ml	
Angle	28°	
RPM Max	6 700	6 700
ACR Max	5 320	5 320

Accessories



Ref.	AFI-RA6-100



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|12	4|24	4|24	5|30	2|12		5|30	2|12		1|6

Adapter



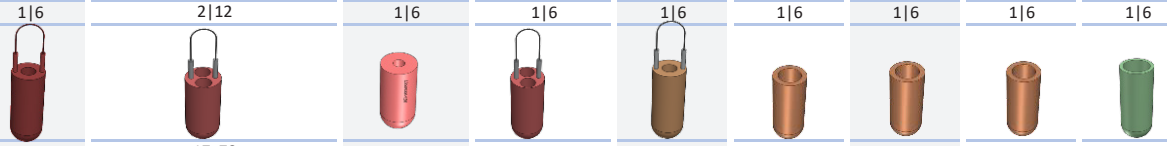
Hole Ø x L(mm)	9x50	11,25x40	13x30	11x40	13,5x58		12,5x55	13,5x78		12,5x80
Radius 106	87|103	83|104	83|104	90|110	87|103		89|111	87|103		108
Ref.	**AFI-100R1-2**	**AFI-100R2-2**	**AFI-100R2CRYO-**	**AFI-100R1.3-2**	**AFI-100R5-2**		**AFI-100R5ST-2**	**AFI-100R7-2**		**AFI-100R6ST-2**



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|6	2|12		1|6	1|6	1|6	1|6	1|6	1|6	1|6

Adapter



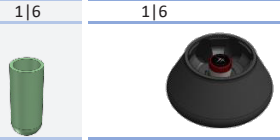
Hole Ø x L(mm)	22x80	17x78	17x80	17x70	18x80	26x60	26x60	26,5x70	30x70
Radius 106	95	87|103	107	87|103	95	96	96	94	101
Ref.	**AFI-100R10C-2**	**AFI-100R10-2**	**AFI-100R10ST-2**	**AFI-100R10-OAK-2**	**AFI-100R15C-2**	**AFI-100R30S-2**	**AFI-100R30C-2**	**AFI-100R30-OAK-**	**AFI-100R50C-2**



Tubes

Capacity (ml)	50	80	85	94
Ø x L (mm)	29x107	38x106	38x106	38x102
Tubes per adapter / rotor	1|6	1|6		1|6

Adapter

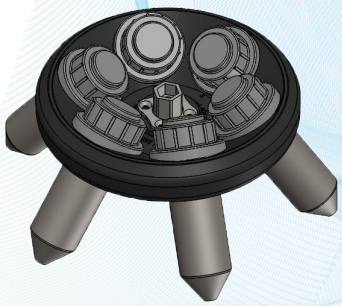


Hole Ø x L(mm)	30x70	39x68		39x86
Radius 106	98	103		106
Ref.	**AFI-100R50-OAK-**	-	-	-

FIXED ANGULAR ROTOR

Accessories selection guide

Angular rotor 6x50ml - 40°

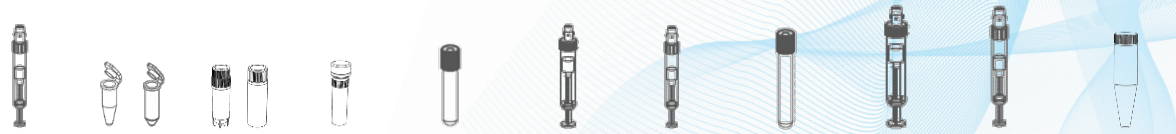


Model	V	R
Max Capacity	6 x 50ml	
Angle	40°	
RPM Max	5 600	5 600
ACR Max	4 383	4 383

Accessories



Ref.	AFI-FAN6-50



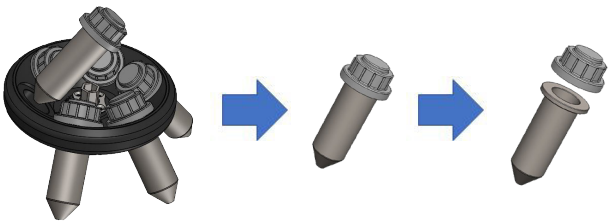
Tubes											
Capacity (ml)	1,1-1,4	1,5-2	1,5-2	1,3	1,6-5	2,6-4	2,7-3	5-7	4,9	4,5-5	10
Ø x L (mm)	8x82	11x38	12,5x40	10x45	13x75	13x81|91	11x82	13x100	13x106	11x108	21x90
Tubes per adapter / rotor	3|18	3|18	3|18	3|18	1|6		3|18	1|6	1|6	1|6	1|6
Adapter											
Hole Ø x L(mm)	9x50	11,25x40	13x30	11x40	13,5x58		12,5x55	13,5x78	13,5x78	12,5x80	22x80
Radius 125	106 | 120	97 | 111	96 | 108	94|105	110		105|116	118	118	118	118
Ref.	AFI-50R1-2	AFI-50R2-2	AFI-50R2CRYO-2	AFI-50R1.3ST-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
Ø x L (mm)	15x91|108	16x100	16x85	17x120	25x110	25x110	25x95	29x115	29x107
Tubes per adapter / rotor	1|6		1|6	1|6	1|6	1|6	1|6	1|6	1|6
Adapter									
Hole Ø x L(mm)	17x78		17x70	18x80	26x60	26x60	26,5x70	30x70	30x70
Radius 125	118		108	120	122	118	121	125	#REF!
Ref.	AFI-50R10-2		AFI-50R10-OAK-	AFI-50R15C-2	AFI-50R30S-2	AFI-50R30C-2	AFI-50R30-OAK-	-	AFI-50R50-OAK-

Ideal for your sensitive samples.
Sealed and individually removable adapters.
Guaranteed safety throughout your analysis protocol, before, during and after centrifugation





Fixed rotor 6x50ml - 45° - Sealed

Model	V	R
Max Capacity	6x 50ml	
Angle	45	
RPM Max	6 700	6 700
ACR Max	6 073	6 073

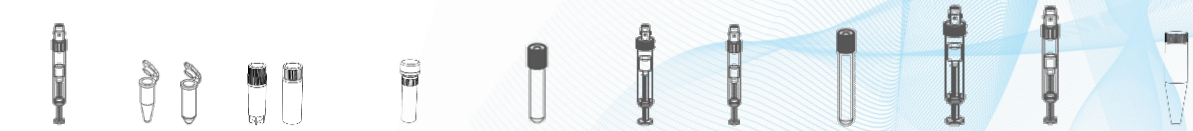


Accessories



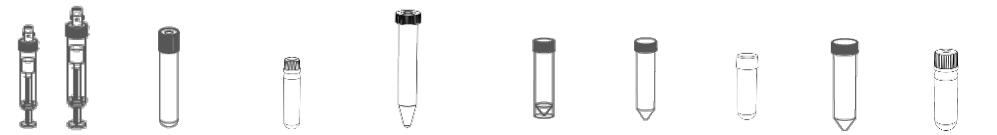
Ref.	AFI-RAN6-50

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
Ø x L (mm)	8x82	11x38	12,5x40	10x45	13x75	13x81|91	11x82	13x100	13x106	11x108	21x90
Tubes per adapter / rotor	3|18	3|18	3|18	3|18	1|6		3|18	1|6	1|6	1|6	1|6
Adapter											
Hole Ø x L(mm)	9x50	11,25x40	13x30	11x40	13,5x58		12,5x55	13,5x78	13,5x78	12,5x80	22x80
Radius 121	101|112	85|96	78|89	76|86	100		87|96	112	112	112	112
Ref.	**AFI-50R1-2**	**AFI-50R2-2**	**AFI-50R2CRYO-2**	**AFI-50R1.3ST-2**	**AFI-50R5-2**		**AFI-50R5ST-2**	**AFI-50R7-2**	**AFI-50R7-2**	**AFI-50R6ST-2**	**AFI-50R10C-2**

Tubes



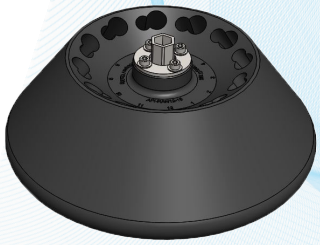
Capacity (ml)	4-8,5	7-10	10	15	30	30	30	50	50
Ø x L (mm)	15x91|108	16x100	16x85	17x120	25x110	25x110	25x95	29x115	29x107
Tubes per adapter / rotor	1|6		1|6	1|6	1|6	1|6	1|6	1|6	1|6
Adapter									
Hole Ø x L(mm)	17x78		17x70	18x80	26x60	26x60	26,5x70	30x70	30x70
Radius 121	112		98	107	115	107	113	121	113
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 ROTOR

Accessories selection guide

Angular rotor 12 tubes

Model	V	R
Max Capacity	12 x 15ml	
Angle	37°	
RPM Max	6 700	6 700
ACR Max	6 324	6 324



Tubes							
Capacity (ml)	-	5	1,6-5	5-7	10	14	15
Ø x L (mm)	-	12x75	13x75	13x100	16x100	17x100	17x120
Tubes per adapter / rotor	-	1|30	1|12	1|12	1|12	1|12	1|12
Accessories							
Hole Ø X L(mm)	18x98	13,5x78	13,5x78	13,5x78	17x78	18x98	18x98
Radius	103|126	96|115	89	114	103	103	109
Ref.	**AFI-RAN12-15**	**AFI-15R5G-12**		**AFI-15R6-12**	**AFI-15R10-12**	**AFI-15R10-12**	**AFI-15R15C-12**

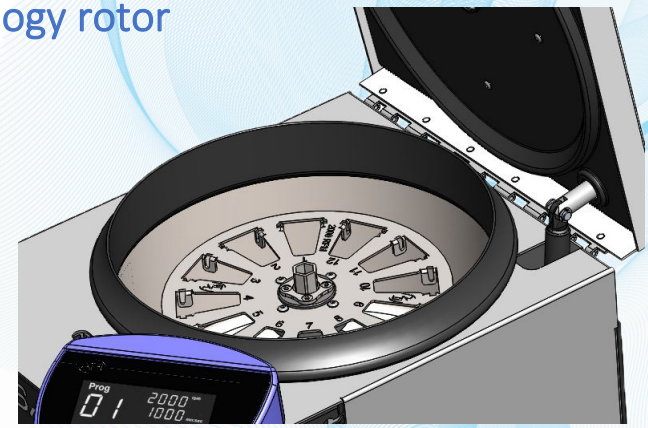
Angular rotor 30x15ml - 37°

Model	R
Max Capacity	30x 15mL
Angle	37°
RPM Max	4 500
ACR Max	3 328



Tubes							
Capacity (ml)	-	5	1,6-5	5-7	10	14	15
Ø 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 Ø x L(mm)	18x98	13 x 60	13 x 58	13x 78	17x78	17x78	18x98
Radius	122|141	96|115	96|115	108|127	110|129	110|129	118|136
Ref.	**AFI-RAN30-15**	**AFI-15R5G**	**AFI-15R5**	**AFI-15R6**	**AFI-15R10**	**AFI-15R10**	**AFI-15R15C**

AFI-CYTOLOGY PACK : ISA Ventilated + Cytology rotor



Model	V
Max Capacity	12 Funnels
Angle	90°
RPM Max	2 000
ACR Max	438

Accessories



Ref.	AFI-RCYTO-N150

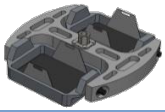
EZ CYTOFUNNEL PACKS

	DOUBLE	DOUBLE	SINGLE	SINGLE	SINGLE
Capacity (mL)	**0,5**	**0,5**	**0,5**	**0,5**	**0,5**
Surface (mm^2)	28	28	28	28	28
ø (mm)	6	6	6	6	6
Description					
Radius 98					
Set of	200	40	200	40	40
Ref.	**AFI-EZ-DFWC-200**	**AFI-EZ DFWC-40**	**AFI-EZ-SFWC-200**	**AFI-EZ-SFWC-40**	**AFI-EZ-SFBC-40**

INDIVIDUAL SOLUTIONS

			DOUBLE	DOUBLE	SINGLE	SINGLE	SINGLE
			0,5	**0,5**	**0,5**	**0,5**	**0,4**
			28	28	28	28	28
	CLIP	CLIP	6	6	6	6	6
Description							
98							
Set of	6	50	500	25	500	50	500
Ref.	**AFI-CLIP-M**	**AFI-CLIP-P**	**AFI-DFW-500**	**AFI-DFW-25**	**AFI-SFW-500**	**AFI-SFW50**	**AFI-SFB-50**

DATA SHEET

Spécifications - *Specifications*						
Modèle - *Model*	Ventilé - *Ventilated*		Réfrigéré -*Refrigerating*		*Chauffante/ Heated*	
Centrifugeuse de paillasse *Benchtop centrifuge*						
Référence - *Reference*	AFI-CI060V-E	AFI-CI060V	AFI-CI060R-E	AFI-CI060R	AFI-CI060RH-E	AFI-CI060RH
Reference IVD/ IVD References*	*AFI-CI060V-E/IVD*	*AFI-CI060V/IVD*	*AFI-CI060R-E/IVD*	*AFI-CI060R/IVD*	*AFI-CI060RH-E/IVD*	*AFI-CI060RH/IVD*
Caractéristiques électriques - *Electrical specifications*						
Tension nominale - *Nominal voltage* (+/- 10%)	230 V	120 V	230 V	120 V	230V	120V
Fréquence - *Frequency*	50 / 60 Hz	60 Hz	50 Hz	60 Hz	50 / 60 Hz	60 Hz
Puissance alimentation max. - *Power max.*	400 W		800 W (460W compressor)		800 W (460W compressor)	
Conformité aux directives Européennes - Compliance with European directives						
(UE)2017/746 : Dispositifs medicaux de diagnostic in vitro - *In vitro diagnostic medical devices* **Only for 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 *Swing-out rotors* 	Capacité max. *Max. capacity*	Rotor AFI-RXN-150 Bucket AFI-BX150	4 x 150 ml			
	RPM max.		4500 rpm			
	ACR max *Max. RCF*		3396 g			
Rotors Microplaques *Microplate rotors* 	Capacité max. *Max. capacity*	Rotor AFI-RHDWN-150 Bucket AFI-BXDW	2x3 microplaques *2x3 microplates*			
	RPM max.		4500 rpm			
	ACR max *Max. RCF*		2400 g			
Rotors Angulaires *Fixed angle rotors* 	Capacité max. *Max. capacity*	Rotor AFI-RAN6-85	6 x 85 ml			
	RPM max.	Rotor AFI-RAN12-15	6700 rpm			
	ACR max *Max. RCF*		6324 g			
Couvercle - *Lid*	✓					
Dimensions & poids - *Dimensions & Weight*						
Dimensions (HxlxL) - *Foot print Dimensions (HxWxD)*	34 x 39 x 51 cm		34 x 46 x 72 cm		34 x 46 x 72 cm	
Profondeur table – Table deep	47 cm		65 cm		65 cm	
Dimensions emballage (HxlxL) - *Package dimension*	47 x 47 x 70 cm		47 x 52 x 81 cm		47 x 52 x 81 cm	
Hauteur couvercle ouvert - *Opened lid height*	74 cm		79 cm		79 cm	
Poids net - *Weight unpacked*	40 Kg		70 Kg		70 Kg	
Poids emballé - *Weight packed*	50 kg		80 kg		80 kg	

Description de la centrifugeuse / Centrifuge description						
Référence - *Reference*	AFI-CI060V-E	AFI-CI060V	AFI-CI060R-E	AFI-CI060R	AFI-CI060RH-E	AFI-CI060RH
Ecran LCD 4.7'' *4.7'' LCD screen*	✓					
Commandes *Commands*	Molette +Touches tactiles *Knob + Tactiles Buttons*					
Contrôle par microprocesseur *Microprocessor control*	✓					
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 du couvercle *Lid closing*	Fermeture manuelle & ouverture motorisée *Manual closing & motorized opening*					
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 / 6700 rpm					
Pas de réglage de la vitesse *Speed setting step*	50 ou 100 rpm suivant réglage utilisateur *50 or 100 according to user setting*					
Précision de vitesse *Speed accuracy*	± 0.5%					
Nombre de programmes *Programs number*	99		99+1		99+2	
Temps de montée de T° ambiante à 37°C *Time to increase from ambient temp to 37°C*	N/A		N/A		Ultra rapide < 9 min	
Temps de descente de T° ambiante à 4°C *Time to decrease from ambient temp to 4°C*	N/A		Ultra rapide < 6 min		Ultra rapide < 6 min	
Fonction Pulse *Pulse (short run)*	✓					
Pentes d'accélération & de freinage *Acceleration & Braking slopes*	10 & 10					
Décélération libre *Brakeless mode*	✓					
Système de réfrigération *Cooling system*	Ventilation *Ventilation device*		Sans CFC *CFC free*			
Plage de réglage en température *Range of setting temperature*	N/A		-10°C → +40°C * * Pour les T° < à 4° et > à l'ambiante, des tests sont nécessaire selon les rotors utilisés et la vitesse For T° < 4° and > ambient, tests are necessary depending on the rotors used and the speed.		-10°C → +40°C * Pour les T° < à 4° des tests sont nécessaire selon les rotors utilisés et la vitesse. For T° < 4° tests are necessary depending on the rotors used and the speed.	
Echauffement (en C°) de l'échantillon a vitesse max pour T° ambiante 23°, Durée de fonctionnement **en continu 45** mn. ***performance optimale atteinte avec couvercle de nacelle** ***Sample heating (C°) at max speed, 23° ambient temperature, Continuous operating time 45mn *optimum performance achieved with bucket lid***	15		N/A			
Fonction de pré-refroidissement et préchauffage *Precool function*	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 temperature *Temperature accuracy*	N/A		+/- 2°C			
Dissipation de chaleur maximale *Heat dissipation*	1364 BTU/h		2729 BTU/h			
Niveau sonore max. *Max. noise*	≤ 56 dB(A)		≤ 54 dB(A)			



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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.

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