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PURISPIN 18R

Refrigerated micro centrifuge with
powerful g-force and high throughput

STANDARD SPECIFICATION

Description	PURISPIN 18R	
MAX. RPM	18,000RPM(Angle Rotor)	13,000RPM(Swing Rotor)
MAX RCF	30,717 xg	16,343 xg
MAX. Capacity	50ml Conical x 6	1.5/2.0ml x 24
Accel / Decel phase	0 ~ 9 (10 Step)	
Set temp.	-10℃ ~ +40℃ (1℃ increments)	
Refrigeration System	Non-CFC	
Noise Level	<50dB(A)	
Set time	99min 59sec or continuous	
Time Count	From start / From set-up RPM	
Program	100 memory	
Rotor ID	Automatic Recognition	
Display	4.3" LCD Touch Screen	
RPM Range	400 to 18,000 RPM	
Display message on screen	RPM, RCF, Time, Door open/close, Temp ACC, DEC, Rotor ID, Program, Comp. On/Off, Key lock	
Available Rotor Quantity	10	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	1.5KW	
Dimension (W x D x H)	382 x 669 x 328mm(H:684mm with open lid)	
Weight (without rotor)	52Kg	
Cat. No.	CS-C-M18R-MB	
For Eco(lower GWP)	CS-C-M18R-MB_R1	

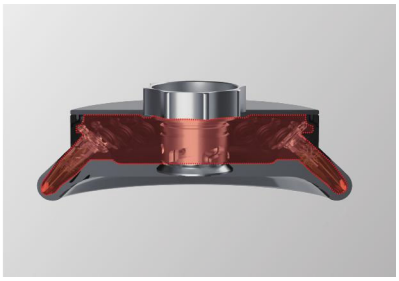
MAIN FEATURE

CRYSTE AXLLOCK

The lid of the 24hole rotor (AS241.5MX) to which the AXLLOCK function is applied can be opened and closed easily and quickly with only a short rotation.

CRYSTE FLIP Touch Controller

- User-friendly 4.3" full color touch LCD controller helps to set the parameter at modern way. All set points are visible at a glance and setting is easy.
- Touch pad lock doesn't allow misuse during operation.

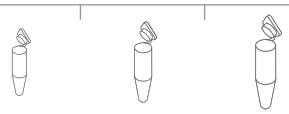
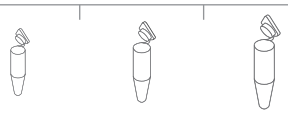
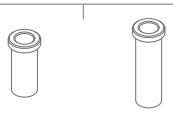
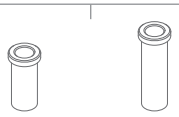


Aerosol tightness angle rotor

It protects the safety of experimenters by isolating aerosols containing infectious factors such as pathogenic microorganisms. It is certified by TUV NORD in compliance with IEC61010-2-020:2016 Annex AA.

- Accurate and stable temperature maintenance function
- Fast acceleration/ deceleration time
- Energy Saving
- Refrigeration & Fast Cooling
- Silent Operation
- Up to 50ml tubes, even in a microcentrifuge

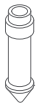
AVAILABLE ANGLE ROTORS

Rotor	A480.2M		A241.5M			AS241.5MX[1)]		
			BEST					
	Fixed Angle Rotor ∠45° 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor ∠ 45° 24 x 1.5ml Radius(mm) : 84.8			Fixed Angle Rotor ∠ 45° 24 x 1.5ml Radius(mm) : 84.8		Aerosol-tight AXLLOCK
Tube								
Volume (ml)	0.2	0.2ml Strips	0.2	0.5	1.5 / 2.0	0.2	0.5	1.5 / 2.0
Adaptor / tube rack								
Item			F1.5A-0.2	F1.5A-0.5		F1.5A-0.2	F1.5A-0.5	
Number per rack / rotor	48	6	24	24	24	24	24	24
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1
Max. height for use (mm)	-	-	44	51	61	44	51	61
RPM	11,000	11,000	18,000	18,000	18,000	18,000	18,000	18,000
Radius (mm)	83.5	83.5	70.3	76.7	84.8	70.3	76.7	84.8
RCF	11,296	11,296	24,465	27,783	30,717	25,465	27,465	30,717

• 1) AS241.5MX : certified for dynamic microbiological test(EN61010-020) by TUV NORD

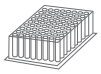
AVAILABLE ANGLE ROTORS

Rotor	A301.5M			A125M	A181.5MH		
	Fixde Angle rotor ∠ 45° 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle rotor ∠45° 12 x 5ml Radius(mm) : 92.9mm	Fixed Angle Rotor ∠ 45° 18 x 1.5ml Radius(mm) : 74.8		
Tube							
Volume (ml)	0.2	0.5	1.5 / 2.0	5	0.2	0.5	1.5 / 2.0
Adaptor / tube rack							
Item	F1.5A-0.2	F1.5A-0.5			F1.5A-0.2	F1.5A-0.5	
Number per rack / rotor	30	30	30	12	18	18	18
Adaptor bore (mm)	6.5	8	11.1	17	6.5	8	11.1
Max. height for use (mm)	44	52	61	67	44	52	63
RPM	14,000	14,000	14,000	14,000	15,000	15,000	15,000
Radius (mm)	80.3	86.7	94.8	92.9	60.4	66.3	74.8
RCF	17,596	18,998	20,773	20,357	15,194	16,678	18,816

Rotor	A481.5M			A650M			
	Fixed Angle Rotor ∠ 45° 48 x 1.5ml Radius(mm) : 94.8			Fixed Angle rotor ∠30° 6 x 50ml Radius(mm) : 108.3			
Tube							
Volume (ml)	0.2	0.5	1.5 / 2.0	15 Conical	15	50 Conical	50 Conical Skirted
Adaptor / tube rack							
Item	F1.5A-0.2	F1.5A-0.5		F50CA-15C	S50A-15	S50A-50C 2)	
Number per rack / rotor	48	48	48	6	6	6	6
Adaptor bore (mm)	6.5	8	11.1	17.0	18	30	30
Max. height for use (mm)	In 51 Out 44	In 62 Out 54	In 70 Out 61	120	119	119	119
RPM	13,000	13,000	13,000	8,000	8,000	8,000	8,000
Radius (mm)	In 70.3 Out 80.3	In 76.7 Out 86.7	In 84.8 Out 94.8	92.2	98.9	100.5	100.5
RCF	In 13,283 Out 15,172	In 14,492 Out 16,381	In 16,022 Out 17,912	6,597	7,067	7,191	7,191

• 2) Included as standard when ordering A650M.

AVAILABLE SWING ROTORS

Rotor	S61.5M			S2M-MTP	
	Swing Out Rotor 24 x 1.5ml Radius(mm) : 86.5			BEST Swing out rotor Max.RPM : 5,000 Radius(mm) : 95	
Buket					
Item (Included)	B1.5				
Tube					
Volume (ml)	0.2	0.5	1.5 / 2.0	MTP	DWP
Adaptor / tube rack					
Item	F1.5A-0.2	F1.5A-0.5			
Number per rack / rotor	4/24	4/24	4/24	2/4	1/2
Adaptor bore (mm)	6.5	8	11.1	-	-
Max. height for use (mm)	29	36	47	-	-
RPM	13,000	13,000	13,000	5,000	5,000
Radius (mm)	67	75	86.5	95	95
RCF	12,659	14,171	16,343	2,655	2,655

ORDER INFORMATION

ITEM		DESCRIPTIONS	Cat. No.
Main Body	PURISPIN 18R	230V±10%, 50-60Hz, 1Phase, Eu Plug, 382x669x328mm, 52Kg	CS-C-M18R-MB
	PURISPIN 18R	230V±10%, 50-60Hz, 1Phase, Eu Plug, 382x669x328mm, 52Kg, including Eco(lower GWP) refrigerant	CS-C-M18R-MB_R1
Angle Rotor	A480.2M	0.2ml x 48 fixed angle rotor for PCR strips (Max 11,000RPM)	CS-C-M-10010
	A241.5M	1.5-2.0ml x 24 fixed angle rotor (Max 18,000RPM in PURISPIN (L)18R / 15,000RPM in PURISPIN (L)17R)	CS-C-M-10020
	AS241.5MX	1.5-2.0ml x 24 fixed aerosol-tightness angle rotor(Axllock, ≤18,000RPM in P18R/≤15,000RPM in P17R)	CS-C-M-10031
	A301.5M	1.5-2.0ml x 30 fixed angle rotor (Max 14,000RPM)	CS-C-M-10040
	A125M	5.0ml x 12 fixed angle rotor (Max 14,000RPM)	CS-C-M-10050
	A181.5MH	1.5-2.0ml Spin Column x 18 fixed angle rotor (Max 15,000RPM)	CS-C-M-10078
	A481.5M	1.5-2.0ml x 48 fixed angle rotor (Max 13,000RPM)	CS-C-M-10080
	A650M	50ml x 6 fixed angle rotor (Max 8,000RPM) including S50A-50C Set(6EA)	CS-C-M-10090
Swing Rotor	S61.5M	6-wing swing rotor with 'built-in 4-place rack for 1.5/2.0ml' x 6 (Max 13,000RPM)	CS-C-M-20010
	S2M-MTP	2-wing swing rotor with '2 MTP x 2'(Max 5,000RPM)	CS-C-M-20029