



LABORATORY
CENTRIFUGES

CRYSTE ✨

**LABORATORY &
SEPARATION TECHNOLOGY**

Bio Safety Cabinets • Centrifuges •
Autoclaves • Shaking Incubators





CRYSTE LABORATORY & SEPARATION TECHNOLOGY

World New Pioneer in Bio-medical Laboratory Equipment With Better Quality and Higher Value

NOVAPRO Co., Ltd. is one of the leading companies of laboratory and biomedical technology equipment. Its own brand, **CRYSTE** symbolizes the purity indicating safety/precision/reliability, which values are the most important in research scientists.

In order to realize **CRYSTE** value, all items are strictly manufactured in the facilities to meet the quality management standard of ISO 9001/ISO 13485/GMP. In addition, innovative development in compliance with the global standard such as CE/TUV is being driven and genuine test for qualification is being executed step by step.

In the long run, the whole team of NOVAPRO will do our best to provide multiple solutions in laboratory equipment and will satisfy all users through the good quality of products.

We never compromise our customer-oriented mind till all are satisfied with our advanced technology.

Please keep track of our further career and success!



CENTRIFUGE

VELOSPIN 22R_High Speed Centrifuge	08
VELOSPIN 17R_High Speed Centrifuge	13
PURISPIN 18R_Micro Centrifuge	20
PURISPIN 17R_Micro Centrifuge	25
PURISPIN 15_Micro Centrifuge	29
PURISPIN 6_Micro Centrifuge	31
VARISPIN 15R_Multi Purpose Centrifuge	34
VARISPIN 15_Multi Purpose Centrifuge	40
VARISPIN 12R_Multi Purpose Centrifuge	45
VARISPIN 12_Multi Purpose Centrifuge	50
VARISPIN 6R_Multi Purpose Centrifuge	54
VARISPIN 6_Multi Purpose Centrifuge	58
VARISPIN 4_Multi Purpose Centrifuge	62
VARISPIN 4A_Multi Purpose Centrifuge	66

LAB.SAFETY

PURICUBE NEO_Biological Safety Cabinet	70
PURIFUME_Fume Hood	74

LAB.BASIC

PURISTER_Autoclave	78
PURICELL SHAKING 80_Shaking Incubator	80
PURICELL SHAKING X10_Shaking Incubator	82
PURIKER CELL_CO2 Resistant Orbital Shaker	84
PURIKER OS_Orbital Shaker	86
PURIKER RK_Rocker	87
PURIMIX_Vortex Mixer	88

LABORATORY
CENTRIFUGES

PureSafe
With Certain and Trustworthy Ways

SEPARATION TECHNOLOGY

Bench-top & Floor-top Centrifuges

Supporting you all the way for your Accurate and Clear Experiment

Centrifuges with precision, safety and stability, made through years of accumulated experience.

Centrifuges already in use for research in various fields of life science and education.

Centrifuges manufactured in a GMP certified facility and used for medical research such as clinical pathology.

General Purpose

Cell-harvest, Tissue-culture, Nucleic and fraction (DNA/RNA work), Mini-prep, Subcellular separations etc.

Medical Purpose

Blood collection, Urine separation for diagnosis.



VELOSPIN 22R



VELOSPIN 17R



VARISPIN 15R



VARISPIN 12R



VARISPIN 6R

Total 14 products available to suit your needs



CRYSTE SEPARATION
TECHNOLOGY



PURISPIN 18R



PURISPIN 17R



PURISPIN 15



PURISPIN 6



VARISPIN 15



VARISPIN 12



VARISPIN 6



VARISPIN 4



VARISPIN 4A

HIGH SPEED & LARGE CAPACITY

FLOOR TOP CENTRIFUGE

Floor-top centrifuges that prides itself on its strong performance to rotate and separate large volumes of samples at high speed.

A user-oriented centrifuge that achieves the best refrigeration performance, while lowering the level of noise that comes with high-speed driving and refrigeration to a minimum.

Depending on the model, it supports up to a 6 x 1000ml fixed-angle rotor capacity, a high speed of 22,000RPM (RCF 54,057 xg), or a 4 x 250ml swing rotor capacity.

It is a **floor-top centrifuge** suitable for laboratories requiring high throughput due to its strong power and various options.

Its **CRYSTE FLIP** touch screen nourish user's conveniences.



VELOSPIN 22R ©



VELOSPIN 17R ©



Various tubes available

Tube coverage
 VELOSPIN 17R : 0.2ml ~ 500ml
 VELOSPIN 22R : 0.2ml ~ 1,000ml



Energy Saving

As one of the pursuit of ESG values, it supports energy saving functions.
 - Standby Off function
 - Eco Shut-off setting for refrigeration
 Unnecessary energy use can be avoided.



Wide Range of Application

Various rotor options for multiple purpose in different users.



Touch Controller

GRYSTE FLIP

- 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.



Biocontainment Accessory Package

- Option for handling biohazardous materials
- Biocontainment sealing buckets are certified by TUV NORD in compliance with IEC61010-2-020:2016 Annex AA.



Accurate and stable temperature maintenance function

Through efficient refrigeration control technology and internal design that minimizes the frictional heat of the rotor, it guarantees safe testing of temperature-sensitive samples.



Higher Safety in Operation

- Motor shaft safety hub system that blocks the risk of an accident due to rotor loosening during high-speed operation
- Safe locking system of door through interlock function



Ideal Security

Unauthorized access is prohibited through password.



Refrigeration & Fast Cooling

- Pre-cooling before use available
- Refrigeration performance maintained continuously during operation



Continuous use ability

Suitable for multiple operating cycles



Drainage

Excessive condensation can be treated by drainage at the bottom of chamber.



Silent Operation

Well-balanced motor minimized vibration, which leads to the most silent operation.



VELOSPIN 22R

Multi-purpose refrigerated high-speed centrifuge that maximizes experiment efficiency with powerful power and superior sample throughput

STANDARD SPECIFICATION

Description	VELOSPIN 22R	
Max. RPM	22,000RPM(Angle Rotor)	4,000RPM(Swing Rotor)
Max. RCF	54,057 xg	3,265 xg
Max. Capacity	1,000ml x 6	250ml x 4
Accel / Decel phase	0 ~ 9 (10set)	
Set Temp.	-10°C ~ +40°C (1°Cincrements)	
Ref. System	Non-CFC	
Noise Level	≤60dB	
Set Time	99 hour 59 min 59sec or continuous	
Time Count	At set Speed or from starting	
Program	100 memory	
Rotor ID	Automatic Recognition	
Display	4.3" LCD Touch Screen	
Display message on screen	RPM, RCF, Time, Door open/close, Temp, ACC/DEC, Rotor ID, Program, Comp. On/Off, Key Lock	
RPM Range	400 to 22,000 rpm	
Available Rotor Quantity	15	
Power Supply	230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	5.8KW	
Dimension(W x D x H)	667 x 772 x 890 mm (H: 1530 mm with open lid)	
Weight (without rotor)	232kg	
Cat. No.	CS-C-H22R-MB	

MAIN FEATURE



Energy Saving

As one of the pursuit of ESG values, it supports energy saving functions.

- Standby Off function
- Eco Shut-off setting for refrigeration

Unnecessary energy use can be avoided.



Various tubes available

Various tubes from 0.2ml to 1000ml are available, suitable tube adapters can be selected.



Wide Range of Application

Various rotor options for multiple purpose in different users.



Biocontainment
Accessory Package



Ideal Security



Safety in High
Speed Operation





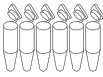












Refrigeration &
Fast Cooling



Silent Operation

AVAILABLE ANGLE ROTORS

Rotor	A480.2H		A301.5H			A481.5H		
								
	Fixed Angle Rotor : ∠45° 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor : ∠45° 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle Rotor : ∠45° 48 x 1.5ml Radius(mm) : 94.8		
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	30	30	30	48	48	48
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1
Max. height for use (mm)	-	-	44	52	61	In 51 Out 44	In 62 Out 54	In 70 Out 61
RPM	12,000	12,000	22,000	22,000	22,000	13,000	13,000	13,000
Radius (mm)	83.5	83.5	80.3	86.7	94.8	In 70.3 Out 80.3	In 76.7 Out 86.7	In 84.8 Out 94.8
RCF	13,443	13,443	43,451	46,914	51,297	In 13,283 Out 15,172	In 14,492 Out 16,381	In 16,022 Out 17,912

AVAILABLE ANGLE ROTORS














Rotor	A1215H		A1215HC		A650H		A650HC	
								
	Fixed Angle Rotor : $\angle 28^\circ$ 12 x 15ml Radius(mm) : 97.1		Fixed Angle Rotor : $\angle 25^\circ$ 12 x 15ml Conical Radius(mm) : 100.9		Fixed Angle Rotor : $\angle 30^\circ$ 6 x 50ml Radius(mm) : 99.9		Fixed Angle Rotor : $\angle 25^\circ$ 6 x 50ml Conical Radius(mm) : 95.7	
Tube								
Volume (ml)	15(16)		15 Conical		15 Conical		50	
Adaptor / tube rack								
Item	-		-		F50A-15C		F50CA-15C	
Number per rack / rotor	12		12		6		6	
Adaptor bore (mm)	18.0		17.0		17.0		30.0	
Max. height for use (mm)	117		129		122		124	
RPM	20,000		20,000		22,000		17,000	
Radius (mm)	97.1		100.9		94.3		91.3	
RCF	43,423		45,122		51,027		29,499	

Rotor	A850H		A685H			A6250H	
							
	Fixed Angle Rotor : $\angle 30^\circ$ 8 x 50ml Radius(mm) : 103.4		Fixed Angle Rotor : $\angle 25^\circ$ 6 x 85ml Radius(mm) : 99.8			Fixed Angle Rotor $\angle 25^\circ$ 6 x 250ml Radius(mm) : 138.4	
Tube							
Volume (ml)	15 Conical	50	15 Conical	50 Conical	50	85	250
Adaptor / tube rack							
Item	F50A-15C	-	F85A-15C	F85A-50C	F85A-50	-	-
Number per rack / rotor	8	8	6	6	6	6	6
Adaptor bore (mm)	17.0	29.0	17.0	30.0	29.0	39	62.0
Max. height for use (mm)	123	120	123	122	118	118	126
RPM	20,000	20,000	20,000	20,000	20,000	20,000	12,000
Radius (mm)	97.8	103.4	90.7	94.8	95.3	99.8	138.4
RCF	43,736	46,240	40,561	42,395	42,618	44,631	22,281

AVAILABLE ANGLE ROTORS

Rotor	A6500H	A41000H	A41000HR	A61000H
				
	Fixed Angle Rotor : $\angle 25^\circ$ 6 x 500ml Radius(mm) : 158	Fixed Angle Rotor : $\angle 25^\circ$ 4 x 1000ml Radius(mm) : 169.1	Fixed Angle rotor $\angle 25^\circ$ 4 x 1000ml Radius(mm) : 177.9	Fixed Angle Rotor : $\angle 25^\circ$ 6 x 1000ml Radius(mm) : 198.3
Tube				
Volume (ml)	500	1,000	1,000	1,000
Adaptor / tube rack				
Item	-	-	-	-
Number per rack / rotor	6	4	4	6
Adaptor bore (mm)	70.0	98.0	98.0	98.0
Max. height for use (mm)	169	175	179	177
RPM	10,000	8,000	8,000	7,000
Radius (mm)	158	169.1	177.9	198.3
RCF	17,664	12,099	12,729	10,863

AVAILABLE SWING ROTORS

	S4250HE	EB250	EBS250 ¹⁾							BW250			
													
			S250ET-5-12	S250ET-10-12	S250ET-15-12	S250ET-15C-9	S250ET-50-4	S250ET-50C-3	S250ET-85-2	S250EA-250			
													
													
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 182.5 Max. RCF : 3,265													
Volume (ml)		3	5	10	15	15 Conical	50	50 Conical	85	250	MTP	DWP	
Number per rack / rotor		12/48	12/48	12/48	9/36	4/16	3/12	2/8	1/4	4/16	1/4		
Adaptor bore (mm)		13.2	16	17.2	17	29.5	29.5	38.5	62.5	-	-		
Max. height for use (mm)		124	124	124	127	124	127	124	138	-	-		
RPM		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	
Radius (mm)		177.5	177.5	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5		
RCF		3,175	3,175	3,175	3,232	3,175	3,229	3,175	3,229	2,746	2,746		

- 1) EBS 250 : certified for dynamic microbiological test(En61010-020) by TUV NORD

ORDER INFORMATION

ITEM	DESCRIPTIONS	Cat. No.
Main Body VELOSPIN 22R	230V±10%, 50-60Hz, 1Phase, Industrial Plug(3Pin), 667x772x890mm, 232Kg	CS-CH22R-MB
A480.2H	0.2ml x 48 fixed angle rotor for PCR tubes (x 6 PCR strips) (Max 12,000RPM)	CS-CH-10010
A301.5H	1.5-2.0ml x 30 fixed angle rotor (Max 22,000RPM in VELOSPIN 22R, 17,000RPM in VELOSPIN 17R)	CS-CH-10020
A481.5H	1.5-2.0ml x 48 fixed angle rotor (Max 13,000RPM)	CS-CH-10030
A1215H	15ml x 12 fixed angle rotor (Max 20,000RPM in VELOSPIN 22R, 17,000RPM in VELOSPIN 17R)	CS-CH-10040
A1215HC	15ml x 12 fixed angle rotor for conical tubes (≤ 20,000RPM in V22R, 15,000RPM in V17R)	CS-CH-10051
A650H	50ml x 6 fixed angle rotor (Max 22,000RPM in VELOSPIN 22R, 17,000RPM in VELOSPIN 17R)	CS-CH-10060
Angle Rotor A650HC	50ml x 6 fixed angle rotor for conical tubes (≤ 17,000RPM in V22R, 15,000RPM in V17R)	CS-CH-10071
A850H	50ml x 8 fixed angle rotor (Max 20,000RPM in VELOSPIN 22R, 15,000RPM in VELOSPIN 17R)	CS-CH-10080
A685H	85ml x 6 fixed angle rotor (Max 20,000RPM in VELOSPIN 22R, 15,000RPM in VELOSPIN 17R)	CS-CH-10090
A6250H	250ml x 6 fixed angle rotor (Max 12,000RPM in VELOSPIN 22R, 10,000RPM in VELOSPIN 17R)	CS-CH-10100
A6500H	500ml x 6 fixed angle rotor (Max 10,000RPM in VELOSPIN 22R, 8,000RPM in VELOSPIN 17R)	CS-CH-10110
A41000H	1000ml x 4 fixed angle rotor (Max 8,000RPM)	CS-CH-10120
A41000HR	1000ml x 4 fixed angle rotor (Max 8,000RPM), for super speed bottle	CS-CH-10140
A61000H	1000ml x 6 fixed angle rotor (Max 7,000RPM)	CS-CH-10130
Swing Rotor S4250HE	250ml x 4-wing rotor for rectangular/micro plate buckets (Max. 4,000RPM)	CS-CH-20010





VELOSPIN 17R

Multi-purpose refrigerated high-speed centrifuge with both powerful power and high-volume sample handling capability



STANDARD SPECIFICATION

Description	VELOSPIN 17R	
Max. RPM	17,000RPM(Angle Rotor)	4,000RPM(Swing Rotor)
Max. RCF	32,278 xg	3,265 xg
Max. Capacity	500ml x 6	250ml x 4
Accel / Decel phase	0 ~ 9 (10set)	
Set Temp.	-10°C ~ +40°C (1°C increments)	
Ref. System	Non-CFC	
Noise Level	≤60dB	
Set Time	99 hour 59 min 59sec or continuous	
Time Count	At set Speed or from starting	
Program	100 memory	
Rotor ID	Automatic Recognition	
Display	4.3" LCD Touch Screen	
Display message on screen	RPM, RCF, Time, Door open/close, Temp, ACC/DEC, Rotor ID, Program, Comp. On/Off, Key Lock	
RPM Range	400 to 17,000 rpm	
Available Rotor Quantity	12	
Power Supply	230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	2.8KW	
Dimension(W x D x H)	564 x 673 x 866 mm (H: 1475 mm with open lid)	
Weight (without rotor)	168Kg	
Cat. No.	CS-C-H17R-MB	

MAIN FEATURE



Accurate and stable temperature maintenance function

Through efficient refrigeration control technology and internal design that minimizes the frictional heat of the rotor, it guarantees safe testing of temperature-sensitive samples.



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.



Biocontainment Accessory Package

- Option for handling biohazardous materials
- Biocontainment sealing buckets are certified by TUV NORD in compliance with IEC61010-2-020:2016 Annex AA.



Wide Range of Application



Ideal Security



Safety in High Speed Operation





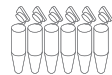












Energy Saving











Silent Operation

AVAILABLE ANGLE ROTORS

Rotor	A480.2H		A301.5H			A481.5H		
								
	Fixed Angle Rotor : ∠45° 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor : ∠45° 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle Rotor : ∠45° 48 x 1.5ml Radius(mm) : 94.8		
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	30	30	30	48	48	48
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1
Max. height for use (mm)	-	-	44	50	61	In 51 Out 44	In 62 Out 54	In 70 Out 61
RPM	12,000	12,000	17,000	17,000	17,000	13,000	13,000	13,000
Radius (mm)	83.5	83.5	80.3	86.7	94.8	In 70.3 Out 80.3	In 76.7 Out 86.7	In 84.8 Out 94.8
RCF	13,443	13,443	25,945	28,013	30,630	In 13,283 Out 15,172	In 14,492 Out 16,381	In 16,022 Out 17,912

AVAILABLE ANGLE ROTORS


















Rotor	A1215H		A1215HC		A650H		A650HC	
								
	Fixed Angle Rotor : $\angle 28^\circ$ 12 x 15ml Radius(mm) : 97.1		Fixed Angle Rotor : $\angle 25^\circ$ 12 x 15ml Conical Radius(mm) : 100.9		Fixed Angle Rotor : $\angle 30^\circ$ 6 x 50ml Radius(mm) : 99.9		Fixed Angle Rotor : $\angle 25^\circ$ 6 x 50ml Conical Radius(mm) : 95.7	
Tube								
Volume (ml)	15(16)		15 Conical		15 Conical		50	
Adaptor / tube rack								
Item	-		-		F50A-15C		-	
Number per rack / rotor	12		12		6		6	
Adaptor bore (mm)	18.0		17.0		17.0		29.0	
Max. height for use (mm)	117		129		122		120	
RPM	17,000		15,000		17,000		17,000	
Radius (mm)	97.1		100.9		94.3		99.9	
RCF	31,373		25,381		30,469		32,278	
					F50CA-15C		-	
Number per rack / rotor					6		6	
Adaptor bore (mm)					17.0		30.0	
Max. height for use (mm)					124		121	
RPM					15,000		15,000	
Radius (mm)					91.3		95.7	
RCF					22,967		24,073	

Rotor	A850H		A685H			
						
	Fixed Angle Rotor : $\angle 30^\circ$ 8 x 50ml Radius(mm) : 103.4		Fixed Angle Rotor : $\angle 25^\circ$ 6 x 85ml Radius(mm) : 99.8			
Tube						
Volume (ml)	15 Conical	50	15 Conical	50 Conical	50	85
Adaptor / tube rack						
Item	F50A-15C	-	F85A-15C	F85A-50C	F85A-50	-
Number per rack / rotor	8	8	6	6	6	6
Adaptor bore (mm)	17.0	29.0	17.0	30.0	29.0	39
Max. height for use (mm)	123	120	123	122	118	118
RPM	15,000	15,000	15,000	15,000	15,000	15,000
Radius (mm)	97.8	103.4	90.7	94.8	95.3	99.8
RCF	24,602	26,010	22,816	23,847	23,973	25,105

AVAILABLE ANGLE ROTORS

Rotor	A6250H	A6500H
Item	 <p>Fixed Angle Rotor : $\angle 25^\circ$ 6 x 250ml Radius(mm) : 138.4</p>	 <p>Fixed Angle Rotor : $\angle 25^\circ$ 6 x 500ml Radius(mm) : 158</p>
Tube		
Volume (ml)	250	500
Adaptor / tube rack		
Item	-	-
Number per rack / rotor	6	6
Adaptor bore (mm)	62.0	70.0
Max. height for use (mm)	126	169
RPM	10,000	8,000
Radius (mm)	138.4	158
RCF	15,473	11,305

AVAILABLE SWING ROTORS

	S4250HE	EB250	EBS250 ¹⁾							BW250		
												
		S250ET-5-12	S250ET-10-12	S250ET-15-12	S250ET-15C-9	S250ET-50-4	S250ET-50C-3	S250ET-85-2	S250EA-250			
												
												
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 182.5 Max. RCF : 3,265												
Volume (ml)		3	5	10	15	15 Conical	50	50 Conical	85	250	MTP	DWP
Number per rack / rotor		12/48	12/48	12/48	9/36	4/16	3/12	2/8	1/4	4/16	1/4	
Adaptor bore (mm)		13.2	16	17.2	17	29.5	29.5	38.5	62.5	-	-	
Max. height for use (mm)		124	124	124	127	124	127	124	138	-	-	
RPM		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Radius (mm)		177.5	177.5	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5	
RCF		3,175	3,175	3,175	3,232	3,175	3,229	3,175	3,229	2,746	2,746	

• 1) EBS 250 : certified for dynamic microbiological test(En61010-020) by TUV NORD

ORDER INFORMATION

ITEM		DESCRIPTIONS	Cat. No.
Main Body	VELOSPIN 17R	230V±10%, 50-60Hz, 1Phase, Eu Plug, 546x673x866mm, 168Kg	CS-C-H17R-MB
	A480.2H	0.2ml x 48 fixed angle rotor for PCR tubes (x 6 PCR strips) (Max 12,000RPM)	CS-C-H10010
	A301.5H	1.5-2.0ml x 30 fixed angle rotor (Max 22,000RPM in VELOSPIN 22R, 17,000RPM in VELOSPIN 17R)	CS-C-H10020
	A481.5H	1.5-2.0ml x 48 fixed angle rotor (Max 13,000RPM)	CS-C-H10030
	A1215H	15ml x 12 fixed angle rotor (Max 20,000RPM in VELOSPIN 22R, 17,000RPM in VELOSPIN 17R)	CS-C-H10040
	A1215HC	15ml x 12 fixed angle rotor for conical tubes (\leq 20,000RPM in V22R, 15,000RPM in V17R)	CS-C-H10051
Angle Rotor	A650H	50ml x 6 fixed angle rotor (Max 22,000RPM in VELOSPIN 22R, 17,000RPM in VELOSPIN 17R)	CS-C-H10060
	A650HC	50ml x 6 fixed angle rotor for conical tubes (\leq 17,000RPM in V22R, 15,000RPM in V17R)	CS-C-H10071
	A850H	50ml x 8 fixed angle rotor (Max 20,000RPM in VELOSPIN 22R, 15,000RPM in VELOSPIN 17R)	CS-C-H10080
	A685H	85ml x 6 fixed angle rotor (Max 20,000RPM in VELOSPIN 22R, 15,000RPM in VELOSPIN 17R)	CS-C-H10090
	A6250H	250ml x 6 fixed angle rotor (Max 12,000RPM in VELOSPIN 22R, 10,000RPM in VELOSPIN 17R)	CS-C-H10100
	A6500H	500ml x 6 fixed angle rotor (Max 10,000RPM in VELOSPIN 22R, 8,000RPM in VELOSPIN 17R)	CS-C-H10110
Swing Rotor	S4250HE	250ml x 4-wing rotor for rectangular/micro plate buckets (Max. 4,000RPM)	CS-C-H20010



MICRO CENTRIFUGE

Refrigerated Micro Centrifuge with intuitive and easy-to-use **CRYSTE FLIP** touch screen achieves constant sample temperature through quick and stable temperature control. Two models with different maximum g-force and capacity support your experiment. From micro tubes, spin column tubes, PCR strips and 15ml/50ml blood tubes, experience the specifications that fit your needs. **Air Cooling** Centrifuge optimized for volume less than 5ml with essential functions.



PURISPIN 18R ©



PURISPIN 17R ©



PURISPIN 15 ©



PURISPIN 6 ©



Tube coverage
 PURISPIN 6 : 0.2ml ~ 1.5/2.0ml
 PURISPIN 15 : 0.2ml ~ 5 ml
 PURISPIN 17R : 0.2ml ~ 5ml
 PURISPIN 18R : 0.2ml ~ 50ml conical



As one of the pursuit of ESG values, it supports energy saving functions.
 - Standby Off function
 - Eco Shut-off setting for refrigeration
 Unnecessary energy use can be avoided.
 (Applicable model : PURISPIN 18R & PURISPIN 17R).

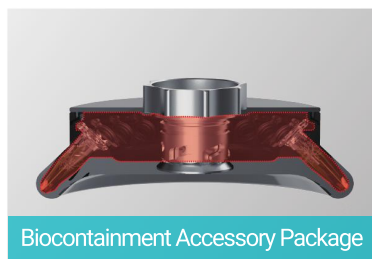


Various rotor options for multiple purpose in different users.



CRYSTE FLIP

- 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.
 (Applicable model : PURISPIN 18R & PURISPIN 17R).



- Option for handling biohazardous materials
- Aerosol tightness angle rotor is certified by TUV NORD in compliance with IEC61010-2-020:2016 Annex AA
 (Applicable model : PURISPIN 18R & PURISPIN 17R & PURISPIN 15).



Through efficient refrigeration control technology and internal design that minimizes the frictional heat of the rotor, it guarantees safe testing of temperature-sensitive samples.
 (Applicable model : PURISPIN 18R & PURISPIN 17R)



Refrigeration & Fast Cooling

- Pre-cooling before use available
- Refrigeration performance maintained continuously during operation
 (Applicable model : PURISPIN 18R & PURISPIN 17R)



Ideal Security

Unauthorized access is prohibited through password
 (Applicable model : PURISPIN 18R & PURISPIN 17R).



Silent Operation

Well-balanced motor minimized vibration, which leads to the most silent operation.



Drainage

Excessive condensation can be treated by drainage at the bottom of chamber
 (Applicable model : PURISPIN 18R & PURISPIN 17R).

cf) The above features are those of models equipped with a touch screen among multi-purpose centrifuges. Please refer to the individual pages for the features of the Blue LCD screen models.



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°C ~ +40°C (1°C increments)	
Refrigeration System	Non-CFC	
Noise Level	≤60dB	
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



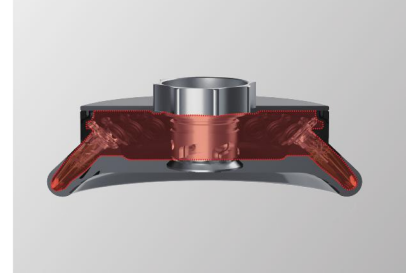
CRYSSTE AXLOCK

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



CRYSSTE 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





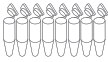












Silent Operation



Up to 50ml tubes, even in a microcentrifuge

AVAILABLE ANGLE ROTORS

Rotor	A480.2M		A241.5M			AS241.5MX ¹⁾		
								
	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		
			BEST			Aerosol-tight AXLOCK		
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		
	 <p>Fixed Angle rotor $\angle 45^\circ$ 30 x 1.5ml Radius(mm) : 94.8</p>			 <p>Fixed Angle rotor $\angle 45^\circ$ 12 x 5ml Radius(mm) : 92.9mm</p>	 <p>Fixed Angle Rotor $\angle 45^\circ$ 18 x 1.5ml Radius(mm) : 74.8</p>		
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			
	 <p>Fixed Angle Rotor $\angle 45^\circ$ 48 x 1.5ml Radius(mm) : 94.8</p>			 <p>Fixed Angle rotor $\angle 30^\circ$ 6 x 50ml Radius(mm) : 108.3</p>			
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	
				 BEST	
	Swing Out Rotor 24 x 1.5ml Radius(mm) : 86.5			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	CSC-M18RMB
	PURISPIN 18R 230V±10%, 50-60Hz, 1Phase, Eu Plug, 382x669x328mm, 52Kg, including Eco(lower GWP) refrigerant	CSC-M18RMB,R1
Angle Rotor	A480.2M 0.2ml x 48 fixed angle rotor for PCR strips (Max 11,000RPM)	CSC-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)	CSC-M-10020
	AS241.5MX 1.5-2.0ml x 24 fixed aerosol-tightness angle rotor(Axllock, ≤18,000RPM in P18R/≤15,000RPM in P17R)	CSC-M-10031
	A301.5M 1.5-2.0ml x 30 fixed angle rotor (Max 14,000RPM)	CSC-M-10040
	A125M 5.0ml x 12 fixed angle rotor (Max 14,000RPM)	CSC-M-10050
	A181.5MH 1.5-2.0ml Spin Column x 18 fixed angle rotor (Max 15,000RPM)	CSC-M-10078
	A481.5M 1.5-2.0ml x 48 fixed angle rotor (Max 13,000RPM)	CSC-M-10080
	A650M 50ml x 6 fixed angle rotor (Max 8,000RPM) including S50A-50C Set(6EA)	CSC-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)
S2MHMTP 2-wing swing rotor with '2 MTP x 2'(Max 5,000RPM)		CSC-M-20029





PURISPIN 17R

Refrigerated micro centrifuge with compact design and easy operation

STANDARD SPECIFICATION



Description	PURISPIN 17R	
Max. RPM	17,000RPM(Angle Rotor)	13,000RPM(Swing Rotor)
Max. RCF	23,522 xg	16,343 xg
Max. Capacity	1.5/2.0ml x 30	1.5/2.0ml x 24
Accel / Decel phase	0 ~ 9 (10 Step)	
Set Temp.	-10°C ~ +40°C (1°C increments)	
Ref. System	Non-CFC	
Noise Level	≤60dB	
Set Time	99 min 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 17,000 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	7	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	1.5KW	
Dimension(W x D x H)	306 x 463 x 373 mm (H:685mm with open lid)	
Weight (without rotor)	30kg	
Cat. No.	CS-C-M17R-MB	
For 100V/110V, 50-60Hz	CS-C-M17R-MB_V1	
For Eco(lower GWP)	CS-C-M17R-MB_R1	

MAIN FEATURE



Compact Design

With the smallest footprint in its class, it is possible to freely arrange a space on a complex experiment table using multiple equipment.



CRYSTE FLIP
Touch Controller



Biocontainment
Accessory Package



Energy Saving



CRYSTE AXLOCK
Rotor



Refrigeration &
Fast Cooling



Silent Operation


















Fast acceleration/
deceleration time



Up to 5ml micro tubes,
PCR strip rotor, etc. available

AVAILABLE ANGLE ROTORS








Rotor	A480.2M		A241.5M			A301.5M		
								
	Fixed Angle Rotor $\angle 45^\circ$ 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor $\angle 45^\circ$ 24 x 1.5ml Radius(mm) : 84.8			Fixed Angle Rotor $\angle 45^\circ$ 30 x 1.5ml Radius(mm) : 94.8		
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	30	30	30
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	52	61
RPM	11,000	11,000	15,000	15,000	15,000	14,000	14,000	14,000
Radius (mm)	83.5	83.5	70.3	76.7	84.8	80.3	86.7	94.8
RCF	11,296	11,296	17,684	19,294	21,331	17,596	18,998	20,773

AVAILABLE ANGLE ROTORS

Rotor	A181.5MS			A125M	AS241.5MX ¹⁾		
							
	Fixed Angle rotor $\angle 45^\circ$ 18 x 1.5ml Radius(mm) : 72.8mm			Fixed Angle rotor $\angle 45^\circ$ 12 x 5ml Radius(mm) : 92.9mm	Fixed Angle Rotor $\angle 45^\circ$ 24 x 1.5ml Radius(mm) : 84.8		
					Aerosol-tight AXLLOCK		
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	18	18	18	12	24	24	24
Adaptor bore (mm)	6.5	8	11.1	17	6.5	8	11.1
Max. height for use (mm)	43	51	61	67	44	51	61
RPM	17,000	17,000	17,000	14,000	15,000	15,000	15,000
Radius (mm)	58.3	64.6	72.8	92.9	70.3	76.7	84.8
RCF	18,837	20,872	23,522	20,357	17,684	19,294	21,331

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

AVAILABLE SWING ROTORS

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

ORDER INFORMATION

ITEM	DESCRIPTIONS	Cat. No.
Main Body	PURISPIN 17R 230V±10%, 50-60Hz, 1Phase, Eu Plug, 306x463x373mm, 30Kg	CSC-M17R-MB
	PURISPIN 17R 100V/110V±10%, 50-60Hz, 1Phase, Eu Plug, 306x463x373mm, 30Kg	CSC-M17R-MB_V1
	PURISPIN 17R 230V±10%, 50-60Hz, 1Phase, Eu Plug, 306x463x373mm, 30Kg, including Eco(lower GWP) refrigerant	CSC-M17R-MB_R1
Angle Rotor	A480.2M 0.2ml x 48 fixed angle rotor for PCR strips (Max 11,000RPM)	CSC-M10010
	A241.5M 1.5-2.0ml x 24 fixed angle rotor (Max 18,000RPM in PURISPIN (L)18R / 15,000RPM in PURISPIN (L)17R)	CSC-M10020
	AS241.5MX 1.5-2.0ml x 24 fixed aerosol-tightness angle rotor(Axllock, ≤18,000RPM in P18R/≤15,000RPM in P17R)	CSC-M10031
	A301.5M 1.5-2.0ml x 30 fixed angle rotor (Max 14,000RPM)	CSC-M10040
	A125M 5.0ml x 12 fixed angle rotor (Max 14,000RPM)	CSC-M10050
	A181.5MS 1.5-2.0ml x 18 fixed angle rotor (Max 17,000RPM)	CSC-M10060
Swing Rotor	S61.5M 6-wing swing rotor with 'built-in 4-place rack for 1.5/2.0ml' x 6 (Max 13,000RPM)	CSC-M20010





PURISPIN 15

Micro centrifuge with compact design

STANDARD SPECIFICATION

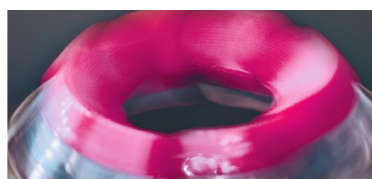
Description	PURISPIN 15
MAX. RPM	15,000 RPM
MAX RCF	21,608 xg
MAX. Capacity	1.5/2.0ml x 30 / 5ml x 10
Accel / Decel phase	0~5 (6 Step)
Noise Level	≤60dB
Set Time	99 min 59sec or Continuous
Time Count	From start / From set-up RPM
Program	10 memory
Display	BLUE LCD
RPM Range	400 to 15,000 RPM
Available Rotor Quantity	5
Display Message on screen	RPM(RCF), Time, ACC, DEC, Program, Rotor ID
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase
Power Consumption	0.45KW
Dimension(W x D x H)	291 x 416 x 246 mm(H:550mm with open lid)
Weight (without rotor)	19.5kg
Cat. No.	CS-C-M15-MB
For 110V, 50-60Hz	CS-C-M15-MB_V1

MAIN FEATURE



SOFT CLOSING DOOR LOCK

There is little noise when opening and closing the door, and it is possible to lock the door easily and smoothly with the touch of one hand.



Fast acceleration / deceleration time

It is a product capable of fast acceleration/deceleration setting of 6 steps.



Blue Display +
Touch Button



CRYTE AXLOCK Rotor

























Various rotors available



Compact Design

AVAILABLE ANGLE ROTORS

Rotor	A480.2S		A241.5S			A301.5S		A105S	
									
	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° 30 x 1.5ml Radius(mm) : 94.8		Fixed Angle rotor ∠45° 10 x 5ml Radius(mm) : 85.9mm	
Tube									
Volume (ml)	0.2	0.2ml Strips	0.2	0.5	1.5 / 2.0	0.2	0.5	1.5 / 2.0	5
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	30	30	30	10
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1	17
Max. height for use (mm)	-	-	44	51	61	44	52	61	67
RPM	11,000	11,000	15,000	15,000	15,000	12,000	12,000	12,000	15,000
Radius (mm)	83.5	83.5	70.3	76.7	84.8	80.3	86.7	94.8	85.9
RCF	11,296	11,296	17,684	19,294	21,331	12,928	13,958	15,262	21,608

Rotor	AS241.5SX ¹⁾		
			
	Fixed Angle Rotor ∠45° 24 x 1.5ml Radius(mm) : 84.8		
	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Aerosol-tight</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; color: red;">AXLOCK</div>		
Tube			
Volume (ml)	0.2	0.5	1.5 / 2.0
Adaptor / tube rack			
Item	F1.5A-0.2	F1.5A-0.5	
Number per rack / rotor	24	24	24
Adaptor bore (mm)	6.5	8	11.1
Max. height for use (mm)	44	51	61
RPM	15,000	15,000	15,000
Radius (mm)	70.3	76.7	84.8
RCF	17,684	19,294	21,331

• 1) AS241.5SX : certified for dynamic microbiological test(EN61010-020) by [TUV NORD](#)

ORDER INFORMATION

ITEM	DESCRIPTIONS	Cat. No.
Main Body	PURISPIN 15 230V±10%, 50-60Hz, 1Phase, Eu Plug, 291x416x246mm, 19.5Kg	CS-C-M15-MB
	PURISPIN 15 110V±10%, 50-60Hz, 1Phase, Eu Plug, 291x416x246mm, 19.5Kg	CS-C-M15-MB_V1
Angle Rotor	A480.2S 0.2ml x 48 fixed angle rotor for PCR strips (Max 11,000RPM)	CS-C-M-10017
	A241.5S 1.5-2.0ml x 24 fixed angle rotor (Max 15,000RPM)	CS-C-M-10027
	A301.5S 1.5-2.0ml x 30 fixed angle rotor (Max 12,000RPM)	CS-C-M-10037
	A105S 5ml x 10 fixed angle rotor (Max 15,000RPM)	CS-C-M-10047
	AS241.5SX 1.5-2.0ml x 24 fixed aerosol-tightness angle rotor(Axlock, Max 15,000RPM)	CS-C-M-10057







PURISPIN 6

Personal mini micro centrifuge

STANDARD SPECIFICATION

Description		PURISPIN 6
Max. RPM		6,200RPM (speed adjustments unavailable)
Max. RCF		1,800 xg
Max. Capacity		8 x 0.2/0.5/1.5/2.0ml tubes, 4 x 0.2ml PCR tube strips
Rotor	Angel Type	8 Holes Circular Fixed-Angel rotor for 0.5/1.5/2.0 Tubes
	Strip Type	32 Hole Strip Rotor for 0.2 PCR Strip or individual Tubes
Speed Control		Automatic/Constant speed
Driving Motor		DC motor
Permissible Temp. & Humidity		5°C~40°C, <80%
Rotating Direction		Clockwise
Adaper		0.2/0.5ml
Power Consumption		8W
Safety Device		Door Limit Switch
Metrial	Lid	PC (Polycarbonate)
	Body	ABS
	Rotor	ABS
Deimension (W x D x H) & Net Weight		155 x 183 x 125mm, 1.34Kg
Packing Size (W x D x H) & Gross Weight		190 x 250 x 215mm, 1.60Kg
Power Supply		1 Phase, AC 120V, 60Hz or AC 230V, 50/60 Hz
Cat. No.		CS-C-M6-SET

MAIN FEATURE

-  Compact Design
-  Excellent Durability
-  Simple Operation
-  Silent Operation

ACCESSORIES



Fixed Angle Rotor



Fixed Angle Rotor for PCR strip



Adaptors for 0.2ml and 0.4/0.5ml tubes

ORDER INFORMATION

ITEM	DESCRIPTIONS	Cat. No.
PURISPIN 6 Set	120/230V, 50/60Hz, 1Phase, EU Plug, 155x183x125mm, 1.34kg Including 0.2ml / 0.5ml tube adapter, PCR Strips	CS-C-M6-SET

MULTI PURPOSE CENTRIFUGE

Multi Purpose Centrifuges with high sample throughput and suitable for different purpose laboratory environments, a wide range of rotors and accessories allows you to perform almost any centrifugation operation.

We support the use of tubes of various sizes, from common blood tubes to PCR, micro, vacutainer tubes and cell culture tubes. In addition, the **CRYSTE FLIP** touch screen allows users to easily use complex functions ranging from parameter setting/operation/error detection.



VARISPIN 15R



VARISPIN 12R



VARISPIN 6R



VARISPIN 15



VARISPIN 12



VARISPIN 6



VARISPIN 4



VARISPIN 4A



Various tubes available

Tube coverage
 VARISPIN 6R : 0.2ml ~ 100ml
 VARISPINI 12 : 0.2ml ~ 250ml
 VARISPIN 12R : 0.2ml ~ 250ml
 VARISPIN 15 : 0.2ml ~ 750ml
 VARISPIN 15R : 0.2ml ~ 750ml



Energy Saving

As one of the pursuit of ESG values, it supports energy saving functions.
 - Standby Off function
 - Eco Shut-off setting for refrigeration
 Unnecessary energy use can be avoided.



Wide Range of Application

Various rotor options for multiple purpose in different users.



Touch Controller

CRYSTE FLIP

- 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.



Biocontainment Accessory Package

- Option for handling biohazardous materials
- Biocontainment sealing buckets are certified by TUV NORD in compliance with IEC61010-2-020:2016 Annex AA.



Accurate and stable temperature maintenance function

Through efficient refrigeration control technology and internal design that minimizes the frictional heat of the rotor, it guarantees safe testing of temperature-sensitive samples.
 (Applicable model : VARISPIN 15R & VARISPIN 12R & VARISPIN 6R).



Refrigeration & Fast Cooling

- Pre-cooling before use available
- Refrigeration performance maintained continuously during operation
 (Applicable model : VARISPIN 15R & VARISPIN 12R)



Ideal Security

Unauthorized access is prohibited through password.



Silent Operation

Well-balanced motor minimized vibration, which leads to the most silent operation.



Drainage

Excessive condensation can be treated by drainage at the bottom of chamber
 (Applicable model : VARISPIN 15R & VARISPIN 12R).

cf) The above features are those of models equipped with a touch screen among multi-purpose centrifuges. Please refer to the individual pages for the features of the Blue LCD screen models.



VARISPIN 15R

Refrigerated multi purpose centrifuge with large capacity and a variety of rotor options

STANDARD SPECIFICATION



Description	VARISPIN 15R	
Max. RPM	15,000RPM(Angle Rotor)	5,000RPM(Swing Rotor)
Max. RCF	23,847 xg	4,947 xg
Max. Capacity	250ml x 4	750ml x 4
Accel / Decel phase	0 ~ 9 (10 Step)	
Set Temp.	-10°C ~ +40°C (1°C increments)	
Ref. System	Non-CFC	
Noise Level	≤60dB	
Set Time	99 hour 59 min 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 15,000 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	16	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	2.5KW	
Dimension(W x D x H)	765 x 687 x 375 mm (H:915mm with open lid)	
Weight (without rotor)	95kg	
Cat. No.	CS-C-T15R-MB	
For Eco(lower GWP)	CS-C-T15R-MB_R1	

MAIN FEATURE



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.

Biocontainment Accessory Package

- Option for handling biohazardous materials
- Biocontainment sealing buckets are certified by TUV NORD in compliance with IEC61010-2-020:2016 Annex AA.

Wide Range of Application

Various rotor options for multiple purpose in different users.



Refrigeration & Fast Cooling



Various Tube Available



Accurate and stable temperature maintenance function



Silent Operation












Energy Saving

AVAILABLE ANGLE ROTORS

Rotor	A480.2T		A301.5T			AS301.5TX ¹⁾			A481.5T		
	Fixed Angle Rotor 45° 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor 45° 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle Rotor 45° 30 x 1.5ml Radius(mm) : 94.8 Aerosol-tight AXLOCK			Fixed Angle Rotor 45° 48 x 1.5ml Radius(mm) : 94.8		
Tube											
Volume (ml)	0.2	0.2ml Strips	0.2	0.5	1.5 / 2.0	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		F1.5A-0.2	F1.5A-0.5	
Number per rack / rotor	48	6	30	30	30	30	30	30	48	48	48
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1	6.5	8	11.1
Max. height for use (mm)	-	-	44	52	61	44	52	61	In 51 Out 44	In 62 Out 54	In 70 Out 61
RPM	12,000	12,000	15,000	15,000	15,000	15,000	15,000	15,000	13,000	13,000	13,000
Radius (mm)	83.5	83.5	80.3	86.7	94.8	80.3	86.7	94.8	In 70.3 Out 80.3	In 76.7 Out 86.7	In 84.8 Out 94.8
RCF	13,443	13,443	20,199	21,809	23,847	20,199	21,809	23,847	In 13,283 Out 15,172	In 14,492 Out 16,381	In 16,022 Out 17,912

• 1) This rotor is not externally certified and has only been self-tested for bioseal sealing.



















AVAILABLE ANGLE ROTORS

Rotor	A1215T		A1215TC		A650T		A650TC	
								
	Fixed Angle Rotor $\angle 28^\circ$ 12 x 15ml Radius(mm) : 97.1		Fixed Angle Rotor $\angle 25^\circ$ 12 x 15ml Conical Radius(mm) : 100.9		Fixed Angle Rotor $\angle 30^\circ$ 6 x 50ml Radius(mm) : 99.9		Fixed Angle Rotor $\angle 25^\circ$ 6 x 50ml Conical Radius(mm) : 95.7	
Tube								
Volume (ml)	15(16)		15 Conical		15 Conical		50	
Adaptor / tube rack								
Item					F50A-15C		F50CA-15C	
Number per rack / rotor	12		12		6		6	
Adaptor bore (mm)	18		17		17		29.5	
Max. height for use (mm)	117		129		122		120	
RPM	12,000		13,000		12,000		12,000	
Radius (mm)	97.1		100.9		94.3		99.9	
RCF	15,632		19,064		15,182		16,083	

Rotor	A850T			A685T			AS685TX ²⁾			A4250T		
												
	Fixed Angle Rotor $\angle 30^\circ$ 8 x 50ml Radius(mm) : 103.4			Fixed Angle Rotor $\angle 25^\circ$ 6 x 85ml Radius(mm) : 99.8			Fixed Angle Rotor $\angle 25^\circ$ 6 x 85ml Radius(mm) : 99.8			Fixed Angle rotor $\angle 25^\circ$ 4 x 250ml Radius(mm) : 128.3		
Tube												
Volume (ml)	15 Conical			50			15 Conical			50		
Adaptor / tube rack												
Item	F50A-15C		F85A-15C		F85A-50C		F85A-50		F85A-15C		F85A-50C	
Number per rack / rotor	8		8		6		6		6		6	
Adaptor bore (mm)	17		29.5		17		30		29		39	
Max. height for use (mm)	123		120		123		122		118		118	
RPM	12,000		12,000		12,000		12,000		12,000		8,000	
Radius (mm)	97.8		103.4		90.7		94.8		95.3		99.8	
RCF	15,745		16,647		14,602		15,262		15,343		16,067	

• 2) This rotor is not externally certified and has only been self-tested for bioseal sealing.

AVAILABLE SWING ROTORS

S4250TE	EB250	EBS250 ³⁾								BW250		
												
	S250ET-5-12	S250ET-10-12	S250ET-15-12	S250ET-15C-9	S250ET-50-4	S250ET-50C-3	S250ET-85-2	S250EA-250				
												
												
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 182.5 Max. RCF : 3,265	3	5	10	15	15 Conical	50	50 Conical	85	250	MTP	DWP	
Capacity (ml)	3	5	10	15	15 Conical	50	50 Conical	85	250	MTP	DWP	
Number per rack / rotor	12/48	12/48	12/48	9/36	4/16	3/12	2/8	1/4	4/16	1/4		
Adaptor bore (mm)	13.2	16	17.2	17	29.5	29.5	38.5	62.5	-	-		
Max. height for use (mm)	124	124	124	127	124	127	124	138	-	-		
RPM	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000		
Radius (mm)	177.5	177.5	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5		
RCF	3,175	3,175	3,175	3,232	3,175	3,229	3,175	3,229	2,746	2,746		





















• 3) EBS250 : certified for dynamic microbiological test(EN61010-020) by [TUV NORD](#)

S4250T	B250						
							
	S250T-5-8	S250T-10-7	S250T-15-5	S250T-15C-4	S250T-50-2	S250A-50C	-
							
							
Swing Out Rotor Max. RPM : 4,500 Radius(mm) : 193.5 Max RCF : 4,381	5	10	15	15 Conical	50	50 Conical	250
Volume (ml)	5	10	15	15 Conical	50	50 Conical	250
Number per rack / rotor	8/32	7/28	5/20	4/16	2/8	1/4	1/4
Adaptor bore (mm)	13.5	16	17.5	17	29.5	30	62.0
Max. height for use (mm)	145	145	145	148	145	150	150
RPM	4,500	4,500	4,500	4,500	4,500	4,500	4,500
Radius (mm)	190.5	190.5	190.5	193.5	190.5	193.5	193.5
RCF	4,313	4,313	4,313	4,381	4,313	4,381	4,381

AVAILABLE SWING ROTORS

	S4750T		B750 BS750 ⁴⁾					B500			BW750			
														
			S750T-5-24		S750T-10-19	S750T-15-19	S750T-15C-14	S750T-50-7	S750T-50C-5	S750A-250				
														
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 205 Max. RCF : 3,667														
Capacity (ml)	3	5	10	15	15 Conical	50	50 Conical	250	750	500	MTP	DWP		
Number per rack / rotor	24/96		19/76	19/76	14/56	7/28	5/20	1/4	1/4	1/4	4/16	1/4		
Adaptor bore (mm)	13.2		16	17.2	17	29.5	29.5	62.5	-	70	-	-		
Max. height for use (mm)	136		136	136	134	136	140	161	143	165	-	-		
RPM	4,000		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000		
Radius (mm)	198		198	198	196	198	202	205	205	213	170	170		
RCF	3,542		3,542	3,542	3,506	3,542	3,613	3,667	3,667	3,810	3,041	3,041		

• 4) BS750 : certified for dynamic microbiological test(EN61010-020) by [TUV NORD](#)

	S4100T	B100								
										
		S100T-1.5-6	S100T-5-5	S100T-10-4	S100T-15-3	S100T-15C-3	S100A-50	S100A-50C	S100A-85	S100A-100
										
Swing Out Rotor Max. RPM : 5,000 Radius(mm) : 177 Max. RCF : 4,947										
Volume (ml)		1.5	5	10	15	15 Conical	50	50 Conical	85	100
Number per rack / rotor		6/24	5/20	4/16	3/12	3/12	1/4	1/4	1/4	1/4
Adaptor bore (mm)		11	13.5	16	17.5	17	29.5	30	38.5	44
Max. height for use (mm)		130	130	130	130	133	130	133	130	130
RPM		5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Radius (mm)		174	174	174	174	177	174	177	174	174
RCF		4,683	4,683	4,683	4,683	4,947	4,683	4,947	4,683	4,683

ORDER INFORMATION

ITEM	DESCRIPTIONS	Cat. No.	
Main Body	VARISPIN 15R 230V±10%, 50-60Hz, 1Phase, Eu Plug, 765x687x375mm, 95Kg	CSC-T15RMB	
	VARISPIN 15R 230V±10%, 50-60Hz, 1Phase, Eu Plug, 765x687x375mm, 95Kg, including Eco(lower GWP) refrigerant, EU Standard Plug	CSC-T15RMB,R1	
Angle Rotor	A480.2T 0.2ml x 48 fixed angle rotor for PCR tubes (x 6 PCR strips) (Max 12,000RPM)	CSC-F10010	
	A301.5T 1.5-2.0ml x 30 fixed angle rotor ($\leq 15,000$ RPM in V(L)15R/15, $\leq 12,000$ RPM in V(L)12R/12)	CSC-F10020	
	AS301.5TX 1.5-2.0ml x 30 fixed aerosol-tightness angle R (Axlock, $\leq 15,000$ RPM in V15R/15, $\leq 12,000$ RPM in V12R/12)	CSC-F10032	
	A481.5T 1.5-2.0ml x 48 fixed angle ($\leq 13,000$ RPM in VARISPIN (L)15R/15, $\leq 12,000$ RPM in VARISPIN (L)12R/12)	CSC-F10040	
	A1215T 15ml x 12 fixed angle rotor (Max 12,000RPM)	CSC-F10050	
	A1215TC 15ml x 12 fixed angle rotor for conical tubes ($\leq 13,000$ RPM in V(L)15R/15, $\leq 12,000$ RPM in V(L)12R/12)	CSC-F10061	
	A650T 50ml x 6 fixed angle rotor (Max 12,000RPM)	CSC-F10070	
	A650TC 50ml x 6 fixed angle rotor for conical tubes ($\leq 13,000$ RPM in V(L)15R/15, $\leq 12,000$ RPM in V(L)12R/12)	CSC-F10081	
	A850T 50ml x 8 fixed angle rotor (Max 12,000RPM)	CSC-F10090	
	A685T 85ml x 6 fixed angle rotor (Max 12,000RPM)	CSC-F10100	
	AS685TX 85ml x 6 fixed aerosol-tightness angle rotor with CRYSTE Axlock(Max 12,000RPM)	CSC-F10112	
	A4250T 250ml x 4 fixed angle rotor (Max 8,000RPM)	CSC-F10120	
	Swing Rotor	S4250TE 250ml 4-wing swing rotor for rectangular/well plate buckets (Max 4,000RPM)	CSC-F20010
		S4250T 250ml 4-wing swing rotor for round buckets ($\leq 4,500$ RPM in V(L)15R/12R, $\leq 4,000$ RPM in V(L)15/12)	CSC-F20020
		S4750T 750ml 4-wing swing rotor for round/well plate buckets (Max 4,000RPM)	CSC-F20030
S4100T 100ml 4-wing swing rotor for round buckets (Max 5,000RPM in VARISPIN (L)15R/12R)		CSC-F20040	





VARISPIN 15

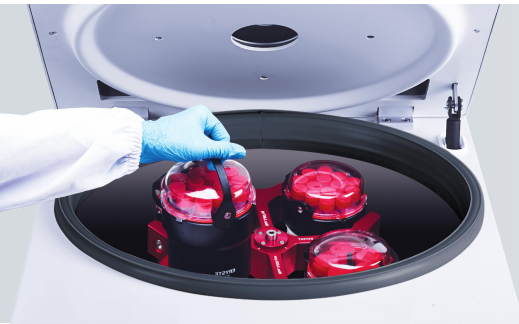
Multi purpose centrifuge with large capacity and a variety of rotor options

STANDARD SPECIFICATION



Description	VARISPIN 15	
Max. RPM	15,000RPM(Angle Rotor)	4,000RPM(Swing Rotor)
Max. RCF	23,847 xg	3,667 xg
Max. Capacity	250ml x 4	750ml x 4
Accel / Decel phase	0 ~ 9 (10 Step)	
Noise Level	≤60dB	
Set Time	99 hour 59 min 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 15,000 rpm	
Display message on screen	RPM, RCF, Time, Door open/close, ACC, DEC, Rotor ID, Program, key lock	
Available Rotor Quantity	15	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	1.5KW	
Dimension(W x D x H)	546 x 684 x 379 mm (H:915mm with open lid)	
Weight (without rotor)	70kg	
Cat. No.	CS-C-T15-MB	
For 110V, 50-60Hz	CS-C-T15-MB_V1	

MAIN FEATURE



Biocontainment Accessory Package Option

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.



CRYTE FLIP
Touch Controller
























Various Tube Available



Wide Range of Application

AVAILABLE ANGLE ROTORS

Rotor	A480.2T		A301.5T			AS301.5TX ¹⁾			A481.5T		
											
	Fixed Angle Rotor 45° 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor 45° 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle Rotor 45° 30 x 1.5ml Radius(mm) : 94.8 Aerosol-tight AXLLOCK			Fixed Angle Rotor 45° 48 x 1.5ml Radius(mm) : 94.8		
Tube											
Volume (ml)	0.2	0.2ml Strips	0.2	0.5	1.5 / 2.0	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		F1.5A-0.2	F1.5A-0.5	
Number per rack / rotor	48	6	30	30	30	30	30	30	48	48	48
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1	6.5	8	11.1
Max. height for use (mm)	-	-	44	52	61	44	52	61	In 51 Out 44	In 62 Out 54	In 70 Out 61
RPM	12,000	12,000	15,000	15,000	15,000	15,000	15,000	15,000	13,000	13,000	13,000
Radius (mm)	83.5	83.5	80.3	86.7	94.8	80.3	86.7	94.8	In 70.3 Out 80.3	In 76.7 Out 86.7	In 84.8 Out 94.8
RCF	13,443	13,443	20,199	21,809	23,847	20,199	21,809	23,847	In 13,283 Out 15,172	In 14,492 Out 16,381	In 16,022 Out 17,912

• 1) This rotor is not externally certified and has only been self-tested for bioseal sealing.

AVAILABLE ANGLE ROTORS

Rotor	A1215T		A1215TC		A650T		A650TC	
								
	Fixed Angle Rotor $\angle 28^\circ$ 12 x 15ml Radius(mm) : 97.1		Fixed Angle Rotor $\angle 25^\circ$ 12 x 15ml Conical Radius(mm) : 100.9		Fixed Angle Rotor $\angle 30^\circ$ 6 x 50ml Radius(mm) : 99.9		Fixed Angle Rotor $\angle 25^\circ$ 6 x 50ml Conical Radius(mm) : 95.7	
Tube					 		 	
Volume (ml)	15(16)		15 Conical		15 Conical 50		15 Conical 50 Conical	
Adaptor / tube rack								
Item					F50A-15C		F50CA-15C	
Number per rack / rotor	12		12		6		6	
Adaptor bore (mm)	18		17		17		29.5	
Max. height for use (mm)	117		129		122		120	
RPM	12,000		13,000		12,000		12,000	
Radius (mm)	97.1		100.9		94.3		99.9	
RCF	15,632		19,064		15,182		16,083	
					17,250		18,082	

Rotor	A850T			A685T			AS685TX ²⁾			A4250T				
														
	Fixed Angle Rotor $\angle 30^\circ$ 8 x 50ml Radius(mm) : 103.4			Fixed Angle Rotor $\angle 25^\circ$ 6 x 85ml Radius(mm) : 99.8			Fixed Angle Rotor $\angle 25^\circ$ Aerosol-tight 6 x 85ml Radius(mm) : 99.8 AXLOCK			Fixed Angle rotor $\angle 25^\circ$ 4 x 250ml Radius(mm) : 128.3				
Tube	  			  			  			 				
Volume (ml)	15 Conical 50			15 Conical 50 Conical 50			15 Conical 50 Conical 50			85 250				
Adaptor / tube rack				  			  							
Item	F50A-15C		F85A-15C		F85A-50C		F85A-50		F85A-15C		F85A-50C		F85A-50	
Number per rack / rotor	8		8		6		6		6		6		6	
Adaptor bore (mm)	17		29.5		17		30		29		39		62.0	
Max. height for use (mm)	123		120		123		122		118		118		123	
RPM	12,000		12,000		12,000		12,000		12,000		12,000		8,000	
Radius (mm)	97.8		103.4		90.7		94.8		95.3		99.8		128.3	
RCF	15,745		16,647		14,602		15,262		15,343		16,067		9,180	

• ²⁾This rotor is not externally certified and has only been self-tested for bioseal sealing.

AVAILABLE SWING ROTORS

	S4750T	B750	BS750 ⁴⁾						B500	BW750		
												
		BEST										BEST
		S750T-5-24	S750T-10-19	S750T-15-19	S750T-15C-14	S750T-50-7	S750T-50C-5	S750A-250				
												
	BEST			BEST		BEST						
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 205 Max. RCF : 3,667												
Capacity (ml)	3	5	10	15	15 Conical	50	50 Conical	250	750	500	MTP	DWP
Number per rack / rotor	24/96	19/76	19/76	14/56	7/28	5/20	1/4	1/4	1/4	4/16	1/4	
Adaptor bore (mm)	13.2	16	17.2	17	29.5	29.5	62.5	-	70	-	-	
Max. height for use (mm)	136	136	136	134	136	140	161	143	165	-	-	
RPM	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Radius (mm)	198	198	198	196	198	202	205	205	213	170	170	
RCF	3,542	3,542	3,542	3,506	3,542	3,613	3,667	3,667	3,810	3,041	3,041	

• 4) BS750 : certified for dynamic microbiological test(EN61010-020) by [TUV NORD](#)

ORDER INFORMATION

ITEM	DESCRIPTIONS	Cat. No.
Main Body	VARISPIN 15 230V±10%, 50-60Hz, 1Phase, Eu Plug, 546x684x379mm, 70Kg	CSC-T15MB
	VARISPIN 15 110V±10%, 50-60Hz, 1Phase, Eu Plug, 546x684x379mm, 70Kg	CSC-T15MB_V1
Angle Rotor	A480.2T 0.2ml x 48 fixed angle rotor for PCR tubes (x 6 PCR strips) (Max 12,000RPM)	CSC-T10010
	A301.5T 1.5-2.0ml x 30 fixed angle rotor (≤ 15,000RPM in V(L)15R/15, ≤ 12,000RPM in V(L)12R/12)	CSC-T10020
	AS301.5TX 1.5-2.0ml x 30 fixed aerosol-tightness angle R (Axlock, ≤15,000RPM in V15R/15, ≤12,000RPM in V12R/12)	CSC-T10032
	A481.5T 1.5-2.0ml x 48 fixed angle (≤13,000RPM in VARISPIN (L)15R/15, ≤12,000RPM in VARISPIN (L)12R/12)	CSC-T10040
	A1215T 15ml x 12 fixed angle rotor (Max 12,000RPM)	CSC-T10050
	A1215TC 15ml x 12 fixed angle rotor for conical tubes (≤ 13,000RPM in V(L)15R/15, ≤12,000RPM in V(L)12R/12)	CSC-T10061
	A650T 50ml x 6 fixed angle rotor (Max 12,000RPM)	CSC-T10070
	A650TC 50ml x 6 fixed angle rotor for conical tubes (≤ 13,000RPM in V(L)15R/15, ≤ 12,000RPM in V(L)12R/12)	CSC-T10081
	A850T 50ml x 8 fixed angle rotor (Max 12,000RPM)	CSC-T10090
	A685T 85ml x 6 fixed angle rotor (Max 12,000RPM)	CSC-T10100
	AS685TX 85ml x 6 fixed aerosol-tightness angle rotor with CRYSTE Axlock(Max 12,000RPM)	CSC-T10112
	A4250T 250ml x 4 fixed angle rotor (Max 8,000RPM)	CSC-T10120
Swing Rotor	S4250TE 250ml 4-wing swing rotor for rectangular/well plate buckets (Max 4,000RPM)	CSC-T20010
	S4250T 250ml 4-wing swing rotor for round buckets (≤ 4,500RPM in V(L)15R/12R, ≤ 4,000RPM in V(L)15/12)	CSC-T20020
	S4750T 750ml 4-wing swing rotor for round/well plate buckets (Max 4,000RPM)	CSC-T20030



VARISPIN 12R

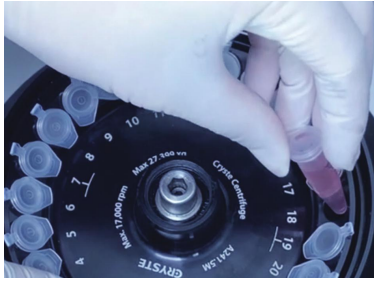
Refrigerated multi purpose centrifuge with the combined advantage of capacity & space-saving

STANDARD SPECIFICATION



Description	VARISPIN 12R	
Max. RPM	12,000RPM(Angle Rotor)	5,000RPM(Swing Rotor)
Max. RCF	16,647 xg	4,947 xg
Max. Capacity	85ml x 6	250ml x 4
Accel / Decel phase	0 ~ 9 (10 Step)	
Set Temp.	-10°C ~ +40°C (1°Cincrements)	
Ref. System	Non-CFC	
Noise Level	≤60dB	
Set Time	99 hour 59 min 59sec or continuous	
Time Count	At set Speed or from starting	
Program	100 memory	
Rotor ID	Automatic Recognition	
Display	4.3" LCD Touch Screen	
RPM Range	400 to 12,000 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	14	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	2KW	
Dimension(W x D x H)	681 x 656 x 372 (H:895mm with open lid)	
Weight (without rotor)	86kg	
Cat. No.	CS-C-T12R-MB	
For Eco(lower GWP)	CS-C-T12R-MB_R1	

MAIN FEATURE



Various tubes available

Various tubes from 0.2ml to 250ml are available, suitable tube adapters can be selected.



Accurate and stable temperature maintenance function

Through efficient refrigeration control technology and internal design that minimizes the frictional heat of the rotor, it guarantees safe testing of temperature-sensitive samples.
(Applicable model : VARISPIN 15R & VARISPIN 12R).



CRYSTE FLIP
Touch Controller



Biocontainment
Accessory Package



Wide Range of Application














Silent Operation






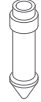
Energy Saving



AVAILABLE ANGLE ROTORS

Rotor	A480.2T		A301.5T			AS301.5TX ¹⁾			A481.5T		
											
	Fixed Angle Rotor ∠45° 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor ∠45° 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle Rotor ∠45° 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle Rotor ∠45° 48 x 1.5ml Radius(mm) : 94.8		
						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	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		F1.5A-0.2	F1.5A-0.5	
Number per rack / rotor	48	6	30	30	30	30	30	30	48	48	48
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1	6.5	8	11.1
Max. height for use (mm)	-	-	44	52	61	44	52	61	In 51 Out 44	In 62 Out 54	In 70 Out 61
RPM	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Radius (mm)	83.5	83.5	80.3	86.7	94.8	80.3	86.7	94.8	In 70.3 Out 80.3	In 76.7 Out 86.7	In 84.8 Out 94.8
RCF	13,443	13,443	12,928	13,958	15,262	12,928	13,958	15,262	In 11,318 Out 12,928	In 12,348 Out 13,958	In 13,652 Out 15,262

• 1) This rotor is not externally certified and has only been self-tested for bioseal sealing.




















AVAILABLE ANGLE ROTORS

Rotor	A1215T		A1215TC		A650T		A650TC	
								
	Fixed Angle Rotor $\angle 28^\circ$ 12 x 15ml Radius(mm) : 97.1		Fixed Angle Rotor $\angle 25^\circ$ 12 x 15ml Conical Radius(mm) : 100.9		Fixed Angle Rotor $\angle 30^\circ$ 6 x 50ml Radius(mm) : 99.9		Fixed Angle Rotor $\angle 25^\circ$ 6 x 50ml Conical Radius(mm) : 95.7	
Tube								
Volume (ml)	15(16)		15 Conical		15 Conical		50	
Adaptor / tube rack								
Item					F50A-15C		F50CA-15C	
Number per rack / rotor	12		12		6		6	
Adaptor bore (mm)	19		17		17		30	
Max. height for use (mm)	117		129		122		124	
RPM	12,000		12,000		12,000		12,000	
Radius (mm)	97.1		100.9		94.3		95.7	
RCF	15,632		16,244		15,182		16,083	

Rotor	A850T			A685T			AS685TX ²⁾							
														
	Fixed Angle Rotor $\angle 30^\circ$ 8 x 50ml Radius(mm) : 103.4			Fixed Angle Rotor $\angle 25^\circ$ 6 x 85ml Radius(mm) : 99.8			Fixed Angle Rotor $\angle 25^\circ$ 6 x 85ml Radius(mm) : 99.8							
Tube														
Volume (ml)	15 Conical			50			15 Conical							
Adaptor / tube rack														
Item	F50A-15C		F85A-15C		F85A-50C		F85A-50		F85A-15C		F85A-50C		F85A-50	
Number per rack / rotor	8		8		6		6		6		6		6	
Adaptor bore (mm)	17		29.5		17		30		29		39		17	
Max. height for use (mm)	123		120		123		122		118		118		123	
RPM	12,000		12,000		12,000		12,000		12,000		12,000		12,000	
Radius (mm)	97.8		103.4		90.7		94.8		95.3		99.8		90.7	
RCF	15,745		16,647		14,602		15,262		15,343		16,067		14,602	

• 2) This rotor is not externally certified and has only been self-tested for bioseal sealing.

AVAILABLE SWING ROTORS

S4250TE	EB250	EBS250 ³⁾								BW250	
											
	S250ET-5-12	S250ET-10-12	S250ET-15-12	S250ET-15C-9	S250ET-50-4	S250ET-50C-3	S250ET-85-2	S250EA-250			
											
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 182.5 Max. RCF : 3,265											
Capacity (ml)	3	5	10	15	15 Conical	50	50 Conical	85	250	MTP	DWP
Number per rack / rotor	12/48		12/48	12/48	9/36	4/16	3/12	2/8	1/4	4/16	1/4
Adaptor bore (mm)	13.2		16	17.2	17	29.5	29.5	38.5	62.5	-	-
Max. height for use (mm)	124		124	124	127	124	127	124	138	-	-
RPM	4,000		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Radius (mm)	177.5		177.5	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5
RCF	3,175		3,175	3,175	3,232	3,175	3,229	3,175	3,229	2,746	2,746

• 3) EBS250 : certified for dynamic microbiological test(EN61010-020) by TUV NORD

S4250T	B250						-
							
	S250T-5-8	S250T-10-7	S250T-15-5	S250T-15C-4	S250T-50-2	S250A-50C	-
							
Swing Out Rotor Max. RPM : 4,500 Radius(mm) : 193.5 Max RCF : 4,381							
Volume (ml)	5	10	15	15 Conical	50	50 Conical	250
Number per rack / rotor	8/32	7/28	5/20	4/16	2/8	1/4	1/4
Adaptor bore (mm)	13.5	16	17.5	17	29.5	30	62.0
Max. height for use (mm)	145	145	145	148	145	150	150
RPM	4,500	4,500	4,500	4,500	4,500	4,500	4,500
Radius (mm)	190.5	190.5	190.5	193.5	190.5	193.5	193.5
RCF	4,313	4,313	4,313	4,381	4,313	4,381	4,381

AVAILABLE SWING ROTORS

	S4100T	B100								
										
										
										
Swing Out Rotor Max. RPM : 5,000 Radius(mm) : 177 Max. RCF : 4,947										
Volume (ml)		1.5	5	10	15	15 Conical	50	50 Conical	85	100
Number per rack / rotor		6/24	5/20	4/16	3/12	3/12	1/4	1/4	1/4	1/4
Adaptor bore (mm)		11	13.5	16	17.5	17	29.5	30	38.5	44
Max. height for use (mm)		130	130	130	130	133	130	133	130	130
RPM		5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Radius (mm)		174	174	174	174	177	174	177	174	174
RCF		4,683	4,683	4,683	4,683	4,947	4,683	4,947	4,683	4,683

ORDER INFORMATION

	ITEM	DESCRIPTIONS	Cat. No.
Main Body	VARISPIN 12R	230V±10%, 50-60Hz, 1Phase, Eu Plug, 681x656x372mm, 86Kg	CSC-T12RMB
	VARISPIN 12R	230V±10%, 50-60Hz, 1Phase, Eu Plug, 681x656x372mm, 86Kg, including Eco(lower GWP) refrigerant	CSC-T12RMB_R1
Angle Rotor	A480.2T	0.2ml x 48 fixed angle rotor for PCR tubes (x 6 PCR strips) (Max 12,000RPM)	CSC-F10010
	A301.5T	1.5-2.0ml x 30 fixed angle rotor (≤ 15,000RPM in V(L)15R/15, ≤ 12,000RPM in V(L)12R/12)	CSC-F10020
	AS301.5TX	1.5-2.0ml x 30 fixed aerosol-tightness angle R (Axlock, ≤15,000RPM in V15R/15, ≤12,000RPM in V12R/12)	CSC-F10032
	A481.5T	1.5-2.0ml x 48 fixed angle (≤13,000RPM in VARISPIN (L)15R/15, ≤12,000RPM in VARISPIN (L)12R/12)	CSC-F10040
	A1215T	15ml x 12 fixed angle rotor (Max 12,000RPM)	CSC-F10050
	A1215TC	15ml x 12 fixed angle rotor for conical tubes (≤ 13,000RPM in V(L)15R/15, ≤12,000RPM in V(L)12R/12)	CSC-F10061
	A650T	50ml x 6 fixed angle rotor (Max 12,000RPM)	CSC-F10070
	A650TC	50ml x 6 fixed angle rotor for conical tubes (≤ 13,000RPM in V(L)15R/15, ≤ 12,000RPM in V(L)12R/12)	CSC-F10081
	A850T	50ml x 8 fixed angle rotor (Max 12,000RPM)	CSC-F10090
	A685T	85ml x 6 fixed angle rotor (Max 12,000RPM)	CSC-F10100
	AS685TX	85ml x 6 fixed aerosol-tightness angle rotor with CRYSTE Axlock(Max 12,000RPM)	CSC-F10112
Swing Rotor	S4250TE	250ml 4-wing swing rotor for rectangular/well plate buckets (Max 4,000RPM)	CSC-F20010
	S4250T	250ml 4-wing swing rotor for round buckets (≤ 4,500RPM in V(L)15R/12R, ≤ 4,000RPM in V(L)15/12)	CSC-F20020
	S4100T	100ml 4-wing swing rotor for round buckets (Max 5,000RPM in VARISPIN (L)15R/12R)	CSC-F20040

VARISPIN 12

Multi purpose centrifuge with the combined advantage of capacity & space-saving



STANDARD SPECIFICATION



Description	VARISPIN 12	
Max. RPM	12,000RPM(Angle Rotor)	4,000RPM(Swing Rotor)
Max. RCF	16,647 xg	3,461 xg
Max. Capacity	85ml x 6	250ml x 4
Accel / Decel phase	0 ~ 9 (10 Step)	
Noise Level	≤60dB	
Set Time	99 hour 59 min 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 12,000 RPM	
Display message on screen	RPM, RCF, Time, Door open/close, ACC, DEC, Rotor ID, Program, key lock	
Available Rotor Quantity	13	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	1.3KW	
Dimension(W x D x H)	496 x 657 x 360 mm (H:895mm with open lid)	
Weight (without rotor)	55kg	
Cat. No.	CS-C-T12-MB	
For 110V, 50-60Hz	CS-C-T12-MB_V1	

MAIN FEATURE



Wide Range of Application

Various rotor options for multiple purpose in different users.



CRYSTE FLIP
Touch Controller
























Biocontainment
Accessory Package















Various Tube Available

AVAILABLE ANGLE ROTORS

Rotor	A480.2T		A301.5T			AS301.5TX ¹⁾			A481.5T		
											
	Fixed Angle Rotor $\angle 45^\circ$ 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor $\angle 45^\circ$ 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle Rotor $\angle 45^\circ$ 30 x 1.5ml Radius(mm) : 94.8 Aerosol-tight AXLOCK			Fixed Angle Rotor $\angle 45^\circ$ 48 x 1.5ml Radius(mm) : 94.8		
Tube											
Volume (ml)	0.2	0.2ml Strips	0.2	0.5	1.5 / 2.0	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		F1.5A-0.2	F1.5A-0.5	
Number per rack / rotor	48	6	30	30	30	30	30	30	48	48	48
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1	6.5	8	11.1
Max. height for use (mm)	-	-	44	52	61	44	52	61	In 51 Out 44	In 62 Out 54	In 70 Out 61
RPM	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Radius (mm)	83.5	83.5	80.3	86.7	94.8	80.3	86.7	94.8	In 70.3 Out 80.3	In 76.7 Out 86.7	In 84.8 Out 94.8
RCF	13,443	13,443	12,928	13,958	15,262	12,928	13,958	15,262	In 11,318 Out 12,928	In 12,348 Out 13,958	In 13,652 Out 15,262

• 1) This rotor is not externally certified and has only been self-tested for bioseal sealing.






















Rotor	A1215T		A1215TC		A650T		A650TC	
								
	Fixed Angle Rotor $\angle 28^\circ$ 12 x 15ml Radius(mm) : 97.1		Fixed Angle Rotor $\angle 25^\circ$ 12 x 15ml Conical Radius(mm) : 100.9		Fixed Angle Rotor $\angle 30^\circ$ 6 x 50ml Radius(mm) : 99.9		Fixed Angle Rotor $\angle 25^\circ$ 6 x 50ml Conical Radius(mm) : 95.7	
Tube								
Volume (ml)	15(16)		15 Conical		15 Conical	50	15 Conical	50 Conical
Adaptor / tube rack								
Item					F50A-15C	F50CA-15C		
Number per rack / rotor		12		12	6	6	6	6
Adaptor bore (mm)		19		17	17	29.5	17	30
Max. height for use (mm)		117		129	122	120	124	121
RPM		12,000		12,000	12,000	12,000	12,000	12,000
Radius (mm)		97.1		100.9	94.3	99.9	91.3	95.7
RCF		15,632		16,244	15,182	16,083	14,699	15,407

AVAILABLE ANGLE ROTORS

Rotor	A850T		A685T				AS685TX ²⁾			
										
	Fixed Angle Rotor ∠30° 8 x 50ml Radius(mm) : 103.4		Fixed Angle Rotor ∠25° 6 x 85ml Radius(mm) : 99.8				Fixed Angle Rotor ∠25° 6 x 85ml Radius(mm) : 99.8			
							Aerosol-tight AXLLOCK			
Tube										
Volume (ml)	15 Conical	50	15 Conical	50 Conical	50	85	15 Conical	50 Conical	50	85
Adaptor / tube rack										
Item	F50A-15C		F85A-15C	F85A-50C	F85A-50		F85A-15C	F85A-50C	F85A-50	
Number per rack / rotor	8	8	6	6	6	6	6	6	6	6
Adaptor bore (mm)	17	29.5	17	30	29	39	17	30	29	39
Max. height for use (mm)	123	120	123	122	118	118	123	122	118	118
RPM	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Radius (mm)	97.8	103.4	90.7	94.8	95.3	99.8	90.7	94.8	95.3	99.8
RCF	15,745	16,647	14,602	15,262	15,343	16,067	14,602	15,262	15,343	16,067

• 2) This rotor is not externally certified and has only been self-tested for bioseal sealing.

AVAILABLE SWING ROTORS

	S4250TE	EB250	EBS250 ³⁾							BW250	
											
		BEST								BEST	
		S250ET-5-12	S250ET-10-12	S250ET-15-12	S250ET-15C-9	S250ET-50-4	S250ET-50C-3	S250ET-85-2	S250EA-250		
											
		BEST				BEST		BEST			
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 182.5 Max. RCF : 3,265											
Capacity (ml)	3	5	10	15	15 Conical	50	50 Conical	85	250	MTP	DWP
Number per rack / rotor		12/48	12/48	12/48	9/36	4/16	3/12	2/8	1/4	4/16	1/4
Adaptor bore (mm)		13.2	16	17.2	17	29.5	29.5	38.5	62.5	-	-
Max. height for use (mm)		124	124	124	127	124	127	124	138	-	-
RPM		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Radius (mm)		177.5	177.5	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5
RCF		3,175	3,175	3,175	3,232	3,175	3,229	3,175	3,229	2,746	2,746

• 3) EBS250 : certified for dynamic microbiological test(EN61010-020) by TUV NORD

AVAILABLE SWING ROTORS

	S4250T	B250						
								
		S250T-5-8	S250T-10-7	S250T-15-5	S250T-15C-4	S250T-50-2	S250A-50C	-
								
								
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 193.5 Max RCF : 3,461								
Volume (ml)		5	10	15	15 Conical	50	50 Conical	250
Number per rack / rotor		8/32	7/28	5/20	4/16	2/8	1/4	1/4
Adaptor bore (mm)		13.5	16	17.5	17	29.5	30	62.0
Max. height for use (mm)		145	145	145	148	145	150	150
RPM		4,000	4,000	4,000	4,000	4,000	4,000	4,000
Radius (mm)		190.5	190.5	190.5	193.5	190.5	193.5	193.5
RCF		3,461	3,461	3,461	3,461	3,461	3,461	3,461

ORDER INFORMATION

	ITEM	DESCRIPTIONS	Cat. No.
Main Body	VARISPIN 12	230V±10%, 50-60Hz, 1Phase, Eu Plug, 496x657x360mm, 55Kg	CSC-T12MB
	VARISPIN 12	110V±10%, 50-60Hz, 1Phase, Eu Plug, 496x657x360mm, 55Kg	CSC-T12MB_V1
Angle Rotor	A480.2T	0.2ml x 48 fixed angle rotor for PCR tubes (x 6 PCR strips) (Max 12,000RPM)	CSC-F10010
	A301.5T	1.5-2.0ml x 30 fixed angle rotor (≤ 15,000RPM in V(L)15R/15, ≤ 12,000RPM in V(L)12R/12)	CSC-F10020
	AS301.5TX	1.5-2.0ml x 30 fixed aerosol-tightness angle R (Axlock, ≤15,000RPM in V15R/15, ≤12,000RPM in V12R/12)	CSC-F10032
	A481.5T	1.5-2.0ml x 48 fixed angle(≤13,000RPM in VARISPIN (L)15R/15, ≤12,000RPM in VARISPIN (L)12R/12)	CSC-F10040
	A1215T	15ml x 12 fixed angle rotor (Max 12,000RPM)	CSC-F10050
	A1215TC	15ml x 12 fixed angle rotor for conical tubes (≤ 13,000RPM in V(L)15R/15, ≤12,000RPM in V(L)12R/12)	CSC-F10061
	A650T	50ml x 6 fixed angle rotor (Max 12,000RPM)	CSC-F10070
	A650TC	50ml x 6 fixed angle rotor for conical tubes (≤ 13,000RPM in V(L)15R/15, ≤ 12,000RPM in V(L)12R/12)	CSC-F10081
	A850T	50ml x 8 fixed angle rotor (Max 12,000RPM)	CSC-F10090
	A685T	85ml x 6 fixed angle rotor (Max 12,000RPM)	CSC-F10100
Swing Rotor	AS685TX	85ml x 6 fixed aerosol-tightness angle rotor with CRYSTE Axlock(Max 12,000RPM)	CSC-F10112
	S4250TE	250ml 4-wing swing rotor for rectangular/well plate buckets (Max 4,000RPM)	CSC-F20010
	S4250T	250ml 4-wing swing rotor for round buckets (≤ 4,500RPM in V(L)15R/12R, ≤ 4,000RPM in V(L)15/12)	CSC-F20020

VARISPIN 6R

Compact and versatile refrigerated centrifuge with medium-capacity sample handling capability



STANDARD SPECIFICATION

Description	VARISPIN 6R	
Max. RPM	6,000rpm (Angle Rotor)	4,500rpm (Swing Rotor)
Max. RCF	5,357 xg	3,781 xg
Max. Capacity	50ml x 8	100ml x 4
Accel / Decel phase	0 ~ 9 (10 Step)	
Set Temp.	-10°C ~ +40°C (1°Cincrements)	
Ref. System	Non-CFC	
Noise Level	≤60dB	
Set Time	99 hour 59 min 59sec or continuous	
Time Count	At set Speed or from starting	
Program	100 memory	
Rotor ID	Automatic Recognition	
Display	4.3" LCD Touch Screen	
RPM Range	400 to 6,000 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	4	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	1.8KW	
Dimension(W x D x H)	636 x 611 x 334 mm (H:774mm with open lid)	
Weight (without rotor)	67kg	
Cat. No.	CS-C-T6R-MB	
For Eco(lower GWP)	CS-C-T6R-MB_R1	

MAIN FEATURE



Various tubes available

Various tubes from 1.5ml to 100ml are available, suitable tube adapters can be selected.



Accurate and stable temperature maintenance function

Through efficient refrigeration control technology and internal design that minimizes the frictional heat of the rotor, it guarantees safe testing of temperature-sensitive samples.



GRYSTE 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.



Refrigeration & Fast Cooling



Silent Operation



Energy Saving



Wide Range of Application

AVAILABLE ANGLE ROTORS

AL2415R



Fixed Angle rotor $\angle 45^\circ$
24 x 15ml
Radius(mm) : In 131 / Out 144.5




F15A-3























F15A-5

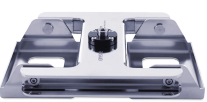




	F15A-3	F15A-5			
Volume (ml)	3	5	10	15	15 Conical
Number per rack / rotor	24	24	24	24	24
Adaptor bore (mm)	13.5	13.5	18	18	18
Max. height for use (mm)	115	139	139	120	120
RPM	4,000	4,000	4,000	4,000	4,000
Radius (mm)	In 111 Out 124.5	In 129.4 Out 142.9	In 131 Out 144.5	In 131 Out 144.5	In 125.5 Out 139
RCF	In 1,986 Out 2,227	In 2,315 Out 2,556	In 2,343 Out 2,585	In 2,343 Out 2,585	In 2,245 Out 2,486

A850RC	F50CA-15C	
		
Fixde Angle rotor $\angle 30^\circ$ 8 x 50ml Radius(mm) : 133.1		
Volume (ml)	15 Conical	50 Conical
Number per rack / rotor	8	8
Adaptor bore (mm)	17	30
Max. height for use (mm)	130	130
RPM	6,000	6,000
Radius (mm)	130.3	133.1
RCF	5,244	5,357

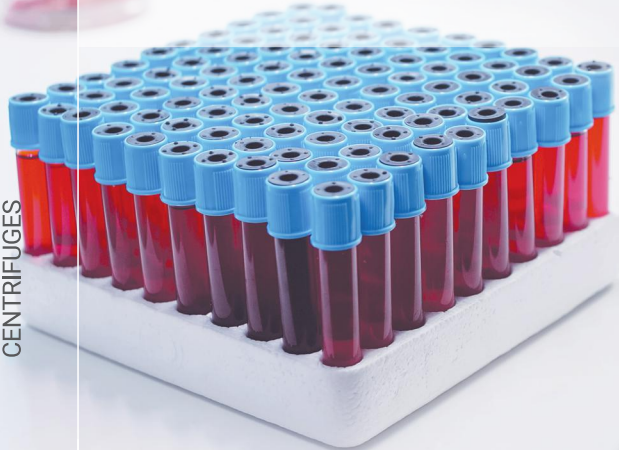
AVAILABLE SWING ROTORS

S4100R	B100									
										
	S100T-1.5-6	S100T-5-5	S100T-10-4	S100T-15-3	S100T-15C-3	S100A-50	S100A-50C	S100A-85	S100A-100	
										
										
Swing Out Rotor Max. RPM : 4,500 Radius(mm) : 167 Max. RCF : 3,781										
Volume (ml)	1.5	5	10	15	15 Conical	50	50 Conical	85	100	
Number per rack / rotor	6/24	5/20	4/16	3/12	3/12	1/4	1/4	1/4	1/4	
Adaptor bore (mm)	11	13.5	16	17.5	17	29.5	30	38.5	44	
Max. height for use (mm)	130	130	130	130	133	130	133	130	130	
RPM	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	
Radius (mm)	164	164	164	164	167	164	167	164	164	
RCF	3,713	3,713	3,713	3,713	3,781	3,713	3,781	3,713	3,713	

S2R-MTP		
		
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 112 Max. RCF : 2,003		
Volume (ml)	MTP	DWP
Number per rack / rotor	2/4	1/2
RPM	4,000	4,000
Radius (mm)	112	112
RCF	2,003	2,003

ORDER INFORMATION

ITEM	DESCRIPTIONS	Cat. No.
Main Body	VARISPIN 6R 230V±10%, 50-60Hz, 1Phase, Eu Plug, 636x611x334mm, 67Kg	CS-C-T6R-MB
	VARISPIN 6R 230V±10%, 50-60Hz, 1Phase, Eu Plug, 636x611x334mm, 67Kg, including Eco(lower GWP) refrigerant	CS-C-T6R-MB_R1
Angle Rotor	AL2415R 15ml x 24 fixed angle rotor with 15ml stainless steel sleeves (Max 4,000RPM)	CS-C-R-10010
	A850RC 50ml x 8 fixed angle rotor for conical tubes (Max. 6,000RPM)	CS-C-R-10020
Swing Rotor	S4100R 100ml 4-wing swing rotor without buckets (Max 4,500RPM)	CS-C-R-20020
	S2R-MTP 2-wing micro plate swing rotor(Max. 4,000RPM)	CS-C-R-20019



VARISPIN 6

Compact and versatile air-cooling centrifuge with medium-capacity sample handling capability



STANDARD SPECIFICATION

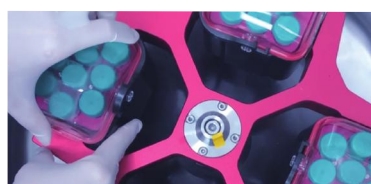
Description	VARISPIN 6	
Max. RPM	6,000rpm(Angle Rotor)	4,000rpm(Swing Rotor)
Max. RCF	5,357 xg	4,724 xg
Max. Capacity	50ml x 8	250ml x 4
Accel / Decel phase	0 ~ 5 (6 Step)	
Noise Level	≤60dB	
Set Time	99 min 59sec or continuous	
Time Count	From start / From set-up RPM	
Program	10 memory	
Display	Blue LCD	
Display message on screen	RPM(RCF), Time, ACC, DEC, Program, Rotor ID	
RPM Range	400 to 6,000 RPM	
Available Rotor Quantity	7	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	1.1KW	
Dimension(W x D x H)	427 x 560 x 320mm(H:731mm with open lid)	
Weight (without rotor)	32kg	
Cat. No.	CS-C-G6-MB	
For 110V, 50-60Hz	CS-C-G6-MB_V1	

MAIN FEATURE



LCD screen with high visibility

The white input value of the blue LCD screen background is used to improve readability. An intuitive icon-shaped touchpad is constructed around the LCD screen.



Various tubes available

Various tubes up to Max. 250ml are available, suitable tube adapters can be selected.



Wide Range of Application



















Fast acceleration/ deceleration time







High Centrifugal Force

AVAILABLE ANGLE ROTORS

AL1615G	F15A-3	F15A-5			
 <p>Fixed Angle rotor $\angle 45^\circ$ 16 x 15ml Radius(mm) : 150.3</p>					
					
Volume (ml)	3	5	10	15	15 Conical
Number per rack / rotor	16	16	16	16	16
Adaptor bore (mm)	13.5	13.5	18	18	18
Max. height for use (mm)	130	152	136	136	136
RPM	4,000	4,000	4,000	4,000	4,000
Radius (mm)	130.3	148.7	150.3	150.3	144.8
RCF	2,331	2,660	2,689	2,689	2,590

AL2415G	F15A-3	F15A-5			
 <p>Fixed Angle rotor $\angle 45^\circ$ 24 x 15ml Radius(mm) : In 131 / Out 144.5</p>					
					
Volume (ml)	3	5	10	15	15 Conical
Number per rack / rotor	24	24	24	24	24
Adaptor bore (mm)	13.5	13.5	18	18	18
Max. height for use (mm)	115	139	139	120	120
RPM	4,000	4,000	4,000	4,000	4,000
Radius (mm)	In 111 Out 124.5	In 129.4 Out 142.9	In 131 Out 144.5	In 131 Out 144.5	In 125.5 Out 139
RCF	In 1,986 Out 2,227	In 2,315 Out 2,556	In 2,343 Out 2,585	In 2,343 Out 2,585	In 2,245 Out 2,486

A850GC	F50CA-15C	
 <p>Fixed Angle rotor $\angle 30^\circ$ 8 x 50ml Radius(mm) : 133.1</p>		
		
Volume (ml)	15 Conical	50 Conical
Number per rack / rotor	8	8
Adaptor bore (mm)	17	30
Max. height for use (mm)	130	130
RPM	6,000	6,000
Radius (mm)	130.3	133.1
RCF	5,244	5,357

AVAILABLE SWING ROTORS

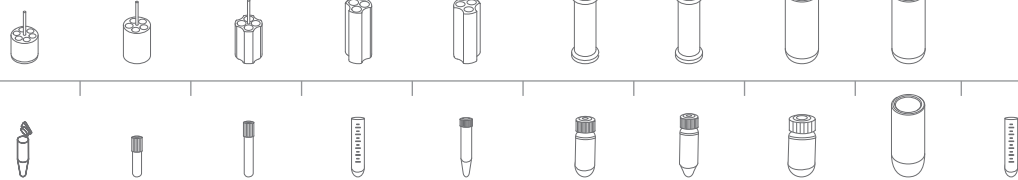
S4100G

B100

EB15-8 ¹⁾



S100T-1.5-6 S100T-5-5 S100T-10-4 S100T-15-3 S100T-15C-3 S100A-50 S100A-50C S100A-85 S100A-100



Swing Out Rotor
Max. RPM : 4,000
Radius(mm) : 167
Max. RCF : 2,987

Volume (ml)	1.5	5	10	15	15 Conical	50	50 Conical	85	100	15
Number per rack / rotor	6/24	5/20	4/16	3/12	3/12	1/4	1/4	1/4	1/4	8/32
Adaptor bore (mm)	11	13.5	16	17.5	17	29.5	30	38.5	44	17
Max. height for use (mm)	130	130	130	130	133	130	133	130	130	125
RPM	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Radius (mm)	164	164	164	164	167	164	167	164	164	167
RCF	2,934	2,934	2,934	2,934	2,987	2,934	2,987	2,934	2,934	2,987

- 1) All-in-one design without the need for a separate adapter as the tube hole is machined

S650G

B50

S2G-MTP

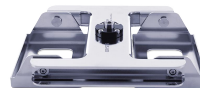


S50A-15C S50A-15 S50A-50C

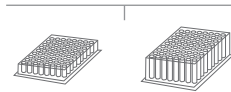


Swing Out Rotor
Max. RPM : 4,000
Radius(mm) : 167
Max. RCF : 2,987

Volume (ml)	15 Conical	15	50 Conical	50
Number per rack / rotor	1/6	1/6	1/6	1/6
Adaptor bore (mm)	17	17.5	30	-
Max. height for use (mm)	126	123	126	126
RPM	4,000	4,000	4,000	4,000
Radius (mm)	167	164	167	167
RCF	2,987	2,934	2,987	2,987





Swing Out Rotor
Max. RPM : 4,000
Radius(mm) : 112
Max. RCF : 2,003



Volume (ml)	MTP	DWP
Number per rack / rotor	2/4	1/2
Adaptor bore (mm)		
Max. height for use (mm)		
RPM	4,000	4,000
Radius (mm)	112	112
RCF	2,003	2,003

AVAILABLE SWING ROTORS

	S4250GE	EB250								
										
		S250ET-5-12	S250ET-10-12	S250ET-15-12	S250EG-15C-7	S250ET-50-4	S250EG-50C-3	S250ET-85-2	S250EA-250	
										
										
Swing Out Rotor Max. RPM : 3,500 Radius(mm) : 167.5 Max. RCF : 2,294										
Volume (ml)		3	5	10	15	15 Conical	50	50 Conical	85	250
Number per rack / rotor		12/48		12/48	12/48	7/28	4/16	3/12	2/8	1/4
Adaptor bore (mm)		13.2		16	17.2	17	29.5	29.5	38.5	62.5
Max. height for use (mm)		110		110	110	120	110	115	110	120
RPM		3,500		3,500	3,500	3,500	3,500	3,500	3,500	3,500
Radius (mm)		162.5		162.5	162.5	167.5	162.5	167.5	162.5	165.5
RCF		2,226		2,226	2,226	2,294	2,226	2,294	2,226	2,267

ORDER INFORMATION

ITEM		DESCRIPTIONS	Cat. No.
Main Body	VARISPIN 6	230V±10%, 50-60Hz, 1Phase, Eu Plug, 427x560x320mm, 32Kg	CSC-G6-MB
	VARISPIN 6	110V±10%, 50-60Hz, 1Phase, Eu Plug, 427x560x320mm, 32Kg	CSC-G6-MB_V1
Angle Rotor	AL1615G	15ml x 16 fixed angle rotor with 15ml stainless steel sleeves (Max 4,000RPM)	CSC-G-10010
	AL2415G	15ml x 24 fixed angle rotor with 15ml stainless steel sleeves (Max 4,000RPM)	CSC-G-10020
	A850GC	50ml x 8 fixed angle rotor for conical tubes (Max. 6,000RPM)	CSC-G-10031
Swing Rotor	S4100G	100ml 4-wing swing rotor without buckets (Max 4,000RPM)	CSC-G-20010
	S650G	50ml 6-wing swing rotor without buckets (Max 4,000RPM)	CSC-G-20020
	S4250GE	2-wing micro plate swing rotor (Max 4,000RPM)	CSC-TG-20039
	S2G-MTP	250ml 4-wing swing rotor for rectangular (Max 3,500RPM)	CSC-G-20040



VARISPIN 4

Multi purpose centrifuge suitable for a variety of applications at lower speeds



STANDARD SPECIFICATION

Description	VARISPIN 4	
Max. RPM	4,000rpm(Angle Rotor)	4,000rpm(Swing Rotor)
Max. RCF	2,689 xg	2,987 xg
Max. Capacity	15ml x 24	100ml x 4
Accel / Decel phase	0 ~ 5 (6 Step)	
Noise Level	≤60dB	
Set Time	99 min 59sec or continuous	
Time Count	From start / From set-up RPM	
Program	10 memory	
Display	Blue LCD	
RPM Range	400 to 4,000 RPM	
Display message on screen	RPM(RCF), Time, ACC, DEC, Program, Rotor ID	
Available Rotor Quantity	5	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	1KW	
Dimension(W x D x H)	415 x 554 x 311mm(H:724mm with open lid)	
Weight (without rotor)	25kg	
Cat. No.	CS-C-G4-MB	
For 110V, 50-60Hz	CS-C-G4-MB_V1	

MAIN FEATURE



Compact Multi Purpose Centrifuge

Tabletop design, suitable for routine blood/urine separation.



Fast acceleration/
deceleration time



















Various tubes
available



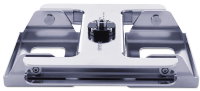


LCD screen with
high visibility

AVAILABLE ANGLE ROTORS

AL2415G	F15A-3	F15A-5			
					
Fixed Angle rotor $\angle 45^\circ$ 24 x 15ml Radius(mm) : In 131 / Out 144.5					
Volume (ml)	3	5	10	15	15 Conical
Number per rack / rotor	24	24	24	24	24
Adaptor bore (mm)	13.5	13.5	18	18	18
Max. height for use (mm)	115	139	139	120	120
RPM	4,000	4,000	4,000	4,000	4,000
Radius (mm)	In 111 Out 124.5	In 129.4 Out 142.9	In 131 Out 144.5	In 131 Out 144.5	In 125.5 Out 139
RCF	In 1,986 Out 2,227	In 2,315 Out 2,556	In 2,343 Out 2,585	In 2,343 Out 2,585	In 2,245 Out 2,486

AL1615G	F15A-3	F15A-5			
					
Fixed Angle rotor $\angle 45^\circ$ 16 x 15ml Radius(mm) : 150.3					
Volume (ml)	3	5	10	15	15 Conical
Number per rack / rotor	16	16	16	16	16
Adaptor bore (mm)	13.5	13.5	18	18	18
Max. height for use (mm)	130	152	136	136	136
RPM	4,000	4,000	4,000	4,000	4,000
Radius (mm)	130.3	148.7	150.3	150.3	144.8
RCF	2,331	2,660	2,689	2,689	2,590

AVAILABLE SWING ROTORS

S2G-MTP		
	Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 112 Max. RCF : 2,003	 
Volume (ml)	MTP	DWP
Number per rack / rotor	2/4	1/2
RPM	4,000	4,000
Radius (mm)	112	112
RCF	2,003	2,003

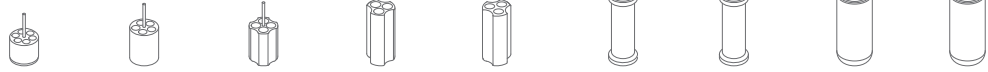
AVAILABLE SWING ROTORS

S4100G

B100



S100T-1.5-6 S100T-5-5 S100T-10-4 S100T-15-3 S100T-15C-3 S100A-50 S100A-50C S100A-85 S100A-100



Swing Out Rotor
Max. RPM : 4,000
Radius(mm) : 167
Max. RCF : 2,987

Volume (ml)	1.5	5	10	15	15 Conical	50	50 Conical	85	100
Number per rack / rotor	6/24	5/20	4/16	3/12	3/12	1/4	1/4	1/4	1/4
Adaptor bore (mm)	11	13.5	16	17.5	17	29.5	30	38.5	44
Max. height for use (mm)	130	130	130	130	133	130	133	130	130
RPM	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Radius (mm)	164	164	164	164	167	164	167	164	164
RCF	2,934	2,934	2,934	2,934	2,987	2,934	2,987	2,934	2,934

S650G

B50



S50A-15C S50A-15 S50A-50C



Swing Out Rotor
Max. RPM : 4,000
Radius(mm) : 167
Max. RCF : 2,987

Volume (ml)	15 Conical	15	50 Conical	50
Number per rack / rotor	1/6	1/6	1/6	1/6
Adaptor bore (mm)	17	17.5	30	-
Max. height for use (mm)	126	123	126	126
RPM	4,000	4,000	4,000	4,000
Radius (mm)	167	164	167	167
RCF	2,987	2,934	2,987	2,987

ORDER INFORMATION

ITEM		DESCRIPTIONS	Cat. No.
Main Body	VARISPIN 4	230V±10%, 50-60Hz, 1Phase, Eu Plug, 415x554x311mm, 25Kg	CS-C-G4-MB
	VARISPIN 4	110V±10%, 50-60Hz, 1Phase, Eu Plug, 415x554x311mm, 25Kg	CS-C-G4-MB_V1
Angle Rotor	AL1615G	15ml x 16 fixed angle rotor with 15ml stainless steel sleeves (Max 4,000RPM)	CS-C-G-10010
	AL2415G	15ml x 24 fixed angle rotor with 15ml stainless steel sleeves (Max 4,000RPM)	CS-C-G-10020
Swing Rotor	S4100G	100ml 4-wing swing rotor without buckets (Max 4,000RPM)	CS-C-G-20010
	S650G	50ml 6-wing swing rotor without buckets (Max 4,000RPM)	CS-C-G-20020
	S2G-MTP	2-wing micro plate swing rotor (Max 4,000RPM)	CS-C-G-20039





VARISPIN 4A

Compact centrifuge specific for frequent application

STANDARD SPECIFICATION



Description	VARISPIN 4A
Max. RPM	4,000rpm
Max. RCF	2,075 xg
Max. Capacity	15ml x 8
Accel Decel time to max rpm	20sec / 20sec
Noise Level	≤60dB
Set Time	99 min 59 sec or continuous
Time Count	From start / From set-up RPM
Program	10 memory
Display	Blue LCD
RPM Range	400 to 4,000 RPM
Display Message on screen	RPM(RCF), Time, Program
Available Rotor Quantity	1
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase
Power Consumption	0.15KW
Dimension(W x D x H)	291 x 416 x 244mm(H:550mm with open lid)
Weight (without rotor)	14kg
Cat. No.	CS-C-D4A-SET
For 110V, 50-60Hz	CS-C-D4A-SET_V1

MAIN FEATURE



Compact Design

With the smallest floor area in its class, space can be arranged more freely on a complex experiment table that use multiple equipments.



LCD screen with high visibility











SOFT CLOSING DOOR LOCK



Silent Operation

AVAILABLE ANGLE ROTORS

	AL815D	F15A-3	F15A-5			
						
Fixed Angle rotor $\angle 40^\circ$ 8 x 15ml Radius(mm) : 116						
Volume (ml)		3	5	10	15	15 Conical
Number per rack / rotor		8	8	8	8	8
Adaptor bore (mm)		13.5	13.5	18.0	18	18
Max. height for use (mm)		120	142	131	131	131
RPM		4,000	4,000	4,000	4,000	4,000
Radius (mm)		97.4	114.3	116	116	110.2
RCF		1,742	2,045	2,075	2,075	1,971

ORDER INFORMATION

	ITEM	DESCRIPTIONS	Cat. No.
Set	VARISPIN 4A Set	230V \pm 10%, 50-60Hz, 1Phase, Eu Plug, 291x416x244mm, 14Kg Including AL815D rotor	CS-C-D4A-SET
	VARISPIN 4A Set	110V \pm 10%, 50-60Hz, 1Phase, Eu Plug, 291x416x244mm, 14Kg Including AL815D rotor	CS-C-D4A-SET_V1

LABORATORY ESSENTIAL EQUIPMENT

Safety Cabinets & Basic Culture Equipment Supporting you all the way for your Safe & Accurate Experiment

CRYSTE Class II safety cabinets provide optimal personal protection, product protection and cross-contamination protection in clean laboratories handling biological specimen of BSL-1, BSL-2, BSL 3. Qualifications that meet internationally proven validation standards are conducted in-house as a basis. Reliable biological safety cabinet already sold in the global market.

In an atmosphere where the scope of application is expanding through technology convergence with chemicals/NT, following medicine/agriculture using technologies related to living organisms such as DNA/proteins/cells, CRYSTE supplies more extensive range of basic physical and chemical laboratory equipment and various options. In particular, we want to lighten your footsteps through essential equipment with reliable temperature control capabilities.



PURICUBE NEO



PURICELL-SHAKING X10



PURICELL-SHAKING 80



PURIKER CELL

CRYSTE LABORATORY TECHNOLOGY ✦



PURIFUME



PURISTER



PURIKER OS



PURIKER RK



PURIMIX



PURICUBE NEO

Class II type A2 biological safety cabinet that protects the user and lab environment from the biohazard factor and prevents cross contamination of various samples used in experiments

STANDARD SPECIFICATION



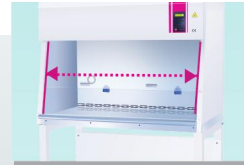
MODEL		PURICUBE NEO 900	PURICUBE NEO 1200	PURICUBE NEO 1500	PURICUBE NEO 1800
Size	Inner(W x D x H)mm	900x576x649	1200x576x679	1500x576x679	1800x576x663
	Out(W x D x H)mm	970x783x2100	1270x783x2100	1570x783x2100	1870x783x2100
	Weight(Kg)	190	225	250	280
	Base Stand(mm)	Stand 716 (Included Caster 82)			
Type	Class II A2 (70% recirculation as downflow & 30% exhaust as outflow)				
Controller	Display	LCD display			
	Function	FL lamp On/Off, UV lamp On/Off, UV lamp timer, Total using / Filter using time			
Sash	Weight balanced sliding tempered safety glass(5mm thick)				
Worktop Material	Stainless steel plate 304, HL				
Inside Material	Stainless steel plate 304, HL				
Outside Material	Epoxy powder coated steel plate				
Filter	H-14 HEPA filter : 99.995% at 0.3µm / ISO class 5				
Average Airflow Velocity	Inflow	0.40 m/s	0.40 m/s	0.40 m/s	0.40 m/s
	Downflow	0.30 m/s	0.30 m/s	0.35 m/s	0.35 m/s
Gas Valve	1EA				
Air Valve (VACCUM)	1EA				
Consent	2EA with reinforced cover(mounted on inside wall)				
UV Lamp	20W x 1EA	30W x 1EA	40W x 1EA		
FL Lamp	55W x 1EA	36W x 2EA	55W x 2EA		
Noise (dB)	< 70dB				
Power	230V±10%, 50/60Hz,EU Standard Plug				
Safety	UV lamp automatic switch-off when door's opened, Fuse installed each electric part, Filter life span alarm with buzzer and display on screen				
Cat. No		CS-PCBN-9-MB	CS-PCBN-12-MB	CS-PCBN-15-MB	CS-PCBN-18-MB

MAIN FEATURE

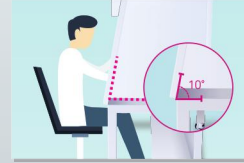


Ergonomic design to give the increased convenience

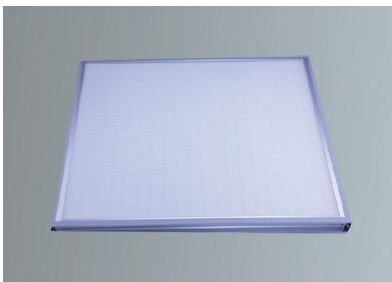
- With a 10 degrees sloped design, it is possible to reduce tension in the arms, neck, and shoulders during the experiment.
- Thanks to higher door glass, extensive visibility can be achieved. Since there is no frame at the bottom of the door glass, the visibility is not disturbed during experiment.
- Due to the armrest, it is convenient to perform more than a certain amount of time, and the elbow can be fixed in the event of precise operation.



① $\angle 10^\circ$ Angle in front



② Frame-less window



Strengthen validation support using higher performance filters

- HEPA filter that enables to remove 99.995% of particles that have a size greater than or equal to $0.3\mu\text{m}$
- Optional ULPA filter that enables to remove 99.9995% of particles that have a size greater than or equal to $0.12\mu\text{m}$



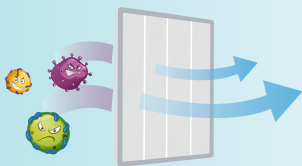
Equipment that enables safe UV sterilizer

- UV sterilization will effect micro organisms at the surface of work table.
- While UV light is on, front reinforced glass door protects the user by blocking UV rays.
- Automatically turns off UV light when opening the door or turning on the fluorescent lamp.



Checking the life and performance of filters through a differential pressure gauge

Measure the pressure of the bottom HEPA filter to check the performance and lifespan of the filter in real time, allowing more safe and effective testing.



Suitable for laboratories requiring higher levels of safety grade 2

- Intake air and working chamber air are drawn to the under plenum of the worktop bench ensuring user safety in assured.
- 70% recirculated air is filtered with the HEPA filter, ensuring product safety is assured.
- 30% exhausting air is emitted through the HEPA filter, which complies with the environmental safety requirements of the laboratory.



Strengthen sample and user safety

- Protect specimen and user's safety by inflow and downflow control.
- Internal air pressure is maintained with negative pressure compared to the outside, preventing the contaminated air from escaping through the gaps.



Design to help optimize the layout of space in the laboratory

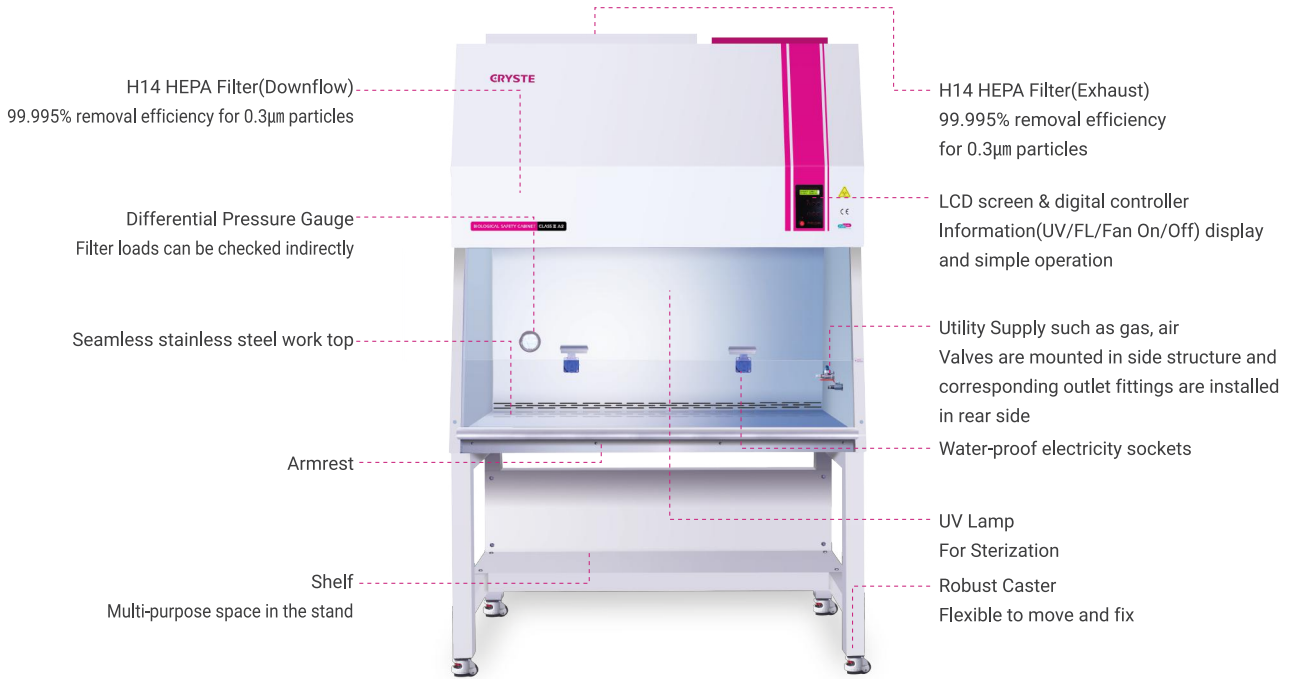
The gas/air utility line installed on the laboratory wall is connected via a one-touch fitting on the back of the cabinet. There are no obstacles to installation on either side of the equipment.



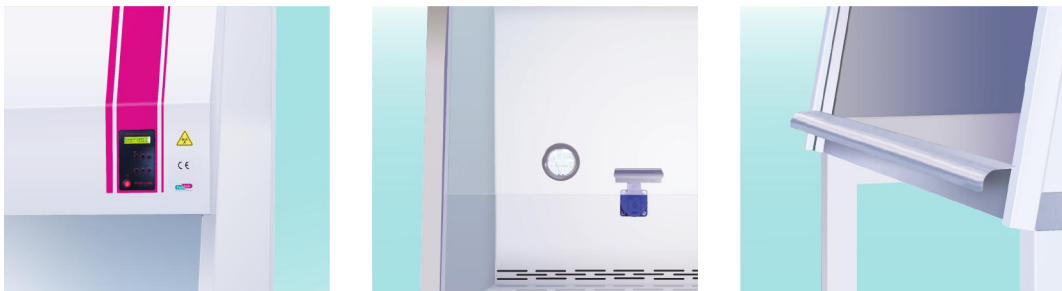
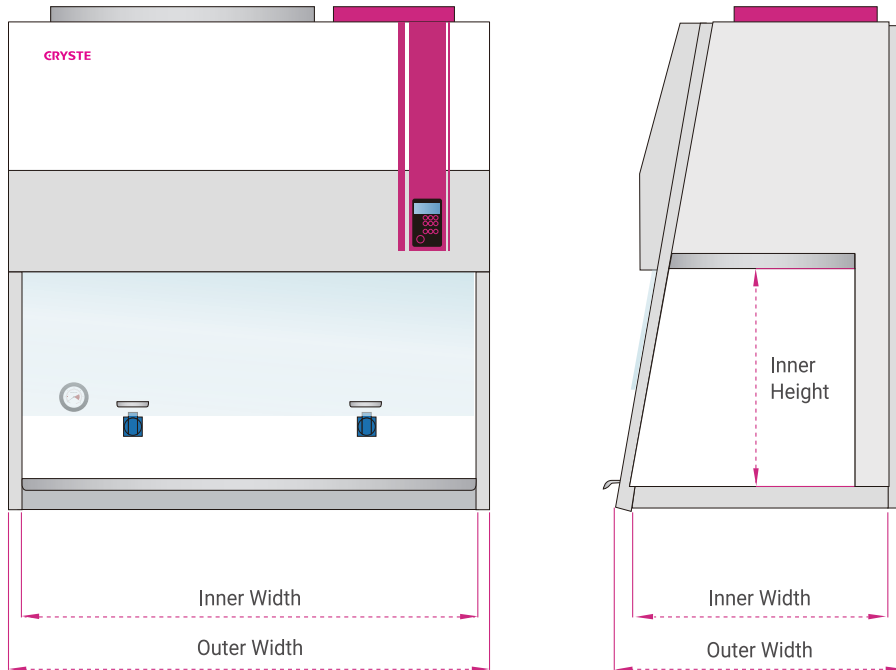
High performance motor to maintain the set airflow velocity

Regardless of filter loads, airflow velocity can be maintained at the set value through the high performance motor.

PART DESCRIPTION



DIMENSIONAL INFORMATION



ORDER INFORMATION

DIVISION	ITEM	PURICUBE NEO 900	PURICUBE NEO 1200	PURICUBE NEO 1500	PURICUBE NEO 1800
Cat. No.					
PRODUCT	Standard HEPA Filter	CS-PCBN-9-MB	CS-PCBN-12-MB	CS-PCBN-15-MB	CS-PCBN-18-MB
	• Optional ULPA Filter	CS-PCBN-9-UFMB	CS-PCBN-12-UFMB	CS-PCBN-15-UFMB	CS-PCBN-18-UFMB
OPTION	• Add. Gas Valve	CS-PCBN-CO-GV			
	• Add. Air Valve	CS-PCBN-CO-AV			
	• Add. Inner Powr outlet	CS-PCBN-CO-IO			
	Exclude Bottom Stand	CS-PCBN-SO-B09	CS-PCBN-SO-B12	CS-PCBN-SO-B15	CS-PCBN-SO-B18
	Wooden Packing	CS-CO-50030	CS-CO-50030	CS-CO-50020	CS-CO-50020

- These options must be ordered before confirmation of order because it's not possible to modify later





PURIFUME

Duct type fume hood discharging toxic fume, hazardous gases, vapors and dusts through ducting system to secure safe laboratory environment

- By pass type fume hood

STANDARD SPECIFICATION



MODEL		PURIFUME 1200	PURIFUME 1500
Size	Inner(W x D x H)mm	1000 x 610 x 1000	1300 x 610 x 1000
	Out(W x D x H)mm	1200 x 866 x 2376	1500 x 866 x 2376
	Weight(Kg)	194	235
	Base Stand(mm)	Stand 757	
Type	Bypass air type		
Controller	Standard : Lamp, blower On/Off Switch		
Sash	Weight balanced sliding laminate safety glass		
Base Stand	Storage Cabinet		
Inside Material	Phenol laminate		
Outside Material	Epoxy powder coated steel plate		
Worktop Material	Phenol laminate		
Duct	Ø250		
Gas Valve	1EA		
Water Valve	1EA		
Air Valve	1EA		
Consent	220V x 2EA(Right), 110V x 2EA(Left) with reinforced cover		
Sink	Cup sink(PP, 190L x 110D x 170Hmm) x 1EA		
FL Lamp	20W x 1EA		
Power	230V±10%, 50-60Hz, EU Standard Plug		
Power Consumption	20W (505W in a blower option)		
Safety	Separate earth leakage circuit breaker		
Cat. No.		CS-PFM-12-MB	CS-PFM-15-MB

MAIN FEATURE



Special quality material applied to reduce risk of damage caused by chemicals

Durability of product is much improved by applying phenolic laminate, which has chemical resistance, heat resistance and moisture resistance, to worktop and inner walls.



Optimized exhausting system

It aims for much strengthened safety by eliminating risk of explosion caused by volatile gases and minimizing damage to product by over-current.



Convenient base cabinet for various functions

- Maintenance can be easily carried out due to electricity distribution box located in the base cabinet.
- It is possible to use for storage laboratory appliance.

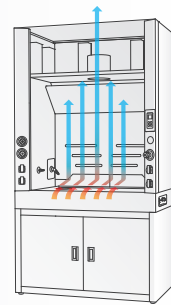
SAFE GUARD

Optimal interior structure for safe exhaust

- As designed to meet ideal bypass and airfoil structure, it prevents generating turbulence at bottom surface.
- Baffled structure helps efficient exhaust.

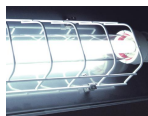
Flow Dynamics

- Room Air
- Contaminated air removed by negative pressure



PART DESCRIPTION

Explosion-proof FL lamp
To get rid of risk of explosion inside work area



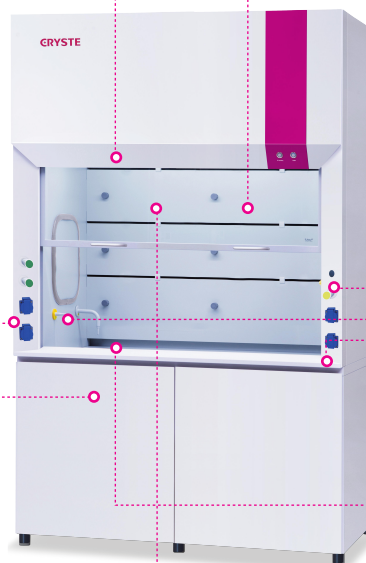
One-touch gas fitting
Easy and quick connection



Electricity distribution box
Electrically safer with each electrical component independently connected to main power.



Laminated glass maintains its shape without splintering even when broken by a strong impact.



Full phenolic laminate interior



Corrosion-free valves and fitting
Seamless design to reduce gas emission



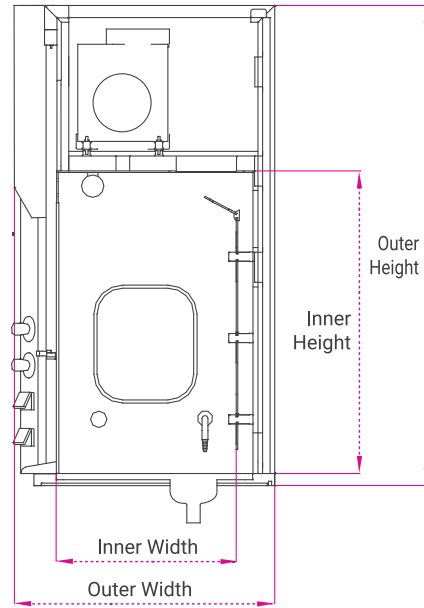
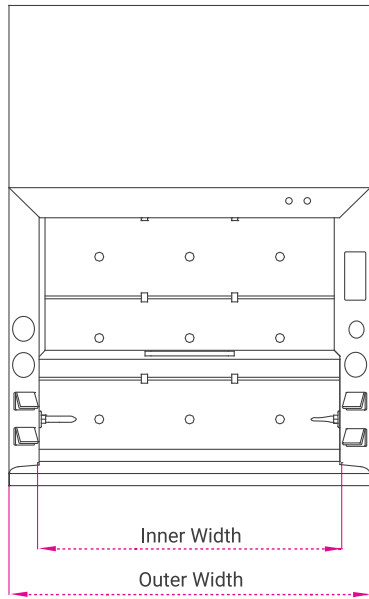
Water-proof socket
110V (left), 220V (right)



Cup sink for water usage



DIMENSIONAL INFORMATION



OPTIONAL ACCESSORIES




Sirocco Blower

ORDER INFORMATION

DIVISION	ITEM	PURIFUME 1200	PURIFUME 1500
		Cat. No.	
PRODUCT	Main Body	CS-PFM-12-MB	CS-PFM-15-MB
	Blower(Sirocco type 1/4HP, 50Hz)		CS-PFM-CO-BF1/4HP50
	Blower(Sirocco type 1/4HP, 60Hz)		CS-PFM-CO-BF1/4HP60
	Blower(Sirocco type 1/2HP, 50Hz)		CS-PFM-CO-BF1/2HP50
OPTION	Blower(Sirocco type 1/2HP, 60Hz)		CS-PFM-CO-BF1/2HP60
	● Add. Gas Valve & Cock		CS-PFM-CO-GV
	● Add. Water Valve & Cock		CS-PFM-CO-WV
	Duct(4meter)		CS-PFM-CO-D250M4
	Wooden Packing	CS-CO-50020	CS-CO-50010

● These options must be ordered before confirmation of order because it's not possible to modify later



Duct type fume hood discharging toxic fume,
hazardous gases, vapors and dusts through ducting
system to secure safe laboratory environment

PURIFUME FUME HOOD



PURISTER

Top loading autoclave used to sterilize a variety of apparatus and supplies by subjecting them to high pressure saturated steam at 121°C

- Top-loading floor top type
- Five-kinds safety devices



STANDARD SPECIFICATION



MODEL		PURISTER 60	PURISTER 80	PURISTER 100
Size	Inner(Dia. x H)mm	Ø350 x 650	Ø400 x 690	Ø450 x 690
	Out(W x D x H)mm	570 x 610 x 1200	620 x 670 x 1220	670 x 710 x 1180
	Capacity	60 L	80 L	100 L
	Weight(Kg)	104	123	145
Temperature	Type	Digital		
	Operating for sterilization	105°C~121°C		
	Display	Ambient +10°C ~ 124°C		
Pressure	Operating for sterilization	1.2bar at 121°C, 1.3bar at 124°C		
	Type	Analogue		
Pressure Gauge	Range	~4.0bar		
	Inside Material	Stainless steel plate 304		
Outside Material	Epoxy powder coated steel plate			
Basket	Material	Wire Basket(2EA included)		
	Size(Dia. x H)mm	Ø320 x 250	Ø370 x 250	Ø420 x 250
Exhaust Bottle Material	HDPE Bottle(1EA included)			
Power	230V±10%, 50/60Hz, EU standard plug	230V±10%, 50/60Hz, 1 Phase, 3 pins high-power plug		
Power Consumption	3,000W	4,000W	4,500W	
Safety Device	Over heat Protector, Thermal rocker-actuated circuit breaker, Water level sensor Pressure safety valve, Emergency exhaust valve			
Cat. No.		CS-PST-6-MB	CS-PST-8-MB	CS-PST-10-MB



LED Indicator in control pad
7 icons displayed as LED indicator show operational status



A slope of 5° in control pad
Ergonomic design for easy viewing angle



Condensation bottle for exhaust air
Prevent exhaust vapor emitting directly

MAIN FEATURE



Safe and trustworthy autoclave

As this equipment is used under conditions of high temperature / high pressure, it is considered safety once again by introducing a quintuple safety device.



Intuitive, easy-to-use digital controller

Icons display the sterilization progress and equipment status, so you can check the status at any time. Also, two LED windows allow you to check the temperature and time at the same time.



Durable equipment for longer lifespan

All materials of the liquid contacts, such as inner chamber, basket and door, are made of stainless steel to minimize the risk of corrosion.



Appearance that takes up less space in a neat design

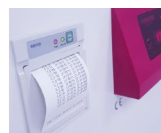
Compact internal structure and sensuous design make it easy to install in any space in the lab.

FLASK LOADING CAPACITY

Flask Volume	Diameter of the bottom of flask	Height of flask	Capacity / Basket		
			PURISTER 60	PURISTER 80	PURISTER 100
25 ml flask	4.1 cm	6.1 cm	40	54	66
50 ml flask	5.1 cm	7.8 cm	25	37	44
125 ml flask	6.7 cm	11.4 cm	15	20	25
250 ml flask	8.2 cm	13.2 cm	9	13	19
500 ml flask	10.1 cm	17.6 cm	7	9	11
1000 ml flask	12.9 cm	21.6 cm	4	6	8
2000 ml flask	15.2 cm	27.9cm	3	4	5

* 2000 ml flask is only available in upper basket

FEATURE PLUS



Optional thermal printer

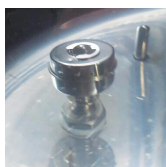
Time and temperature during sterilizing process is printed on thermal paper.



RS-232 interface option

Real time monitoring on temperature data is possible at user's PC through customized software.

SAFE GUARD 5 kinds Safety devices



1. Water level sensor

When water level is lower than heater position, it stops heater operation and prevents overheating.



2. Pressure safety valve

When high pressure above 1.8bar is formed, safety valve is opened automatically so as to maintain appropriate internal pressure.



3. Emergency exhaust valve

Sterilizing work can be stopped by manually discharging air inside chamber.



4. Thermal rocker-actuated circuit breaker

It eliminates risk of fire due to over-current.



5. Thermo limiter

Mechanical thermostat protects the device (Factory setting: 150°C upper limit)

ORDER INFORMATION

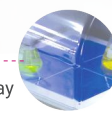
DIVISION	ITEM	PURISTER 60	PURISTER 80	PURISTER 100
		Cat. No.		
PRODUCT	Main Body	CS-PST-6-MB	CS-PST-8-MB	CS-PST-8-MB
OPTION	Built-in Thermal Printer		CS-PST-CO-RSTP	
	RS 232 interface		CS-PST-CO-RS232	

PURICELL_SHAKING 80

Shaking incubator which provides aeration-agitation environment suitable for cell culture



Precise speed control



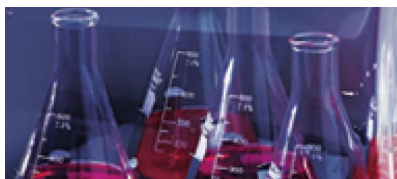
Sticky pad tray

STANDARD SPECIFICATION



MODEL		PURICELL_SHAKING 80
Size	Inner(W x D x H)mm	504 x 521 x 385
	Out(W x D x H)mm	543 x 874 x 546
	Platform(W x D)mm	445 x 445
	Weight(Kg)	100
Controller		Standard : Digital PID controller, Auto-tuning
Inside Material		Stainless steel plate 304
Outside Material		Epoxy powder coated steel plate
Door Material		Polycarbonate
Lamp		LED lamp
Temperature	Range	15°C ~ 65°C
	Wait On Timer	59m.59s / 59h.59m / continuous
	Sensor Type	PT 100Q
	Control	Forced convection(Direct heating & cooling)
Compressor		1/6HP, R-134a, Non-CFC
Shaker	Motion	Clockwise
	Speed Range	20~300 RPM at floor / 20~200 RPM at table
	Wait Off Timer	59m.59s / 59h.59m / continuous
	Throw	20mm
Power		230V±10%, 50Hz, EU Standard Plug
Power Consumption		Max 2,500W
Safety		Over heat protector, Thermal rocker-actuated circuit breaker, Heat protective barrier of controller box, Cooling fan for motor
Cat. No.		CS-PCS-8-R-MB_5Z
For 230V±10%, 60Hz		CS-PCS-8-R-MB_6Z

MAIN FEATURE



Transparent plastic door for easy observation

By applying a transparent cover of polycarbonate material, the door can be opened / closed smoothly and it's easy to observe inside.



LEDs that do not affect the temperature inside the chamber

light makes it easier to observe the chamber without affecting the internal chamber temperature with a low heat LED light inside.



Shaking incubator with refrigeration

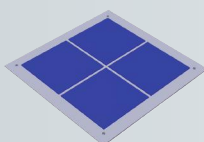
The built-in refrigeration system is designed for widely supporting from low temperature experiment to high temperature.



A variety of options for shaking platform

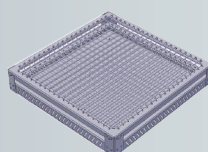
Different style of shaking platform is available based on user's requirement.

FEATURE PLUS Optional Tray depending on various shaking platform



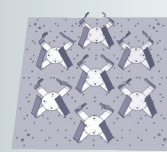
Universal tray + Sticky pad

- It has advantage that free space arrangement is possible regardless of flask size.



Spring Rack

- Flask can be fixed by spring wire and various sizes of flask can be fit.



Universal tray + Steel flask holder

The flask can be hold by fitting a flask holder by size.

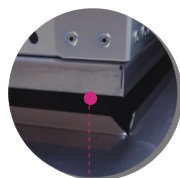
<Max capacity of flask holder>

Flask Size	2L	1L	500ml	250ml	100ml
Capacity	5EA	7EA	16EA	25EA	45EA

SAFE GUARD

Electrical safety design

- There is no risk of electrical leakage in spite of sample's spillage because of the leakage-proof design of bottom plate
- Because controller and main board are installed in the isolated drawer box, it is electrically safe and easy for maintenance.



ORDER INFORMATION

DIVISION	ITEM	PURICELL SHAKING 80
		Cat. No.
PRODUCT	With 50Hz Condition	CS-PCS-8-R-MB_5Z
	With 60Hz Condition	CS-PCS-8-R-MB_6Z
OPTION	Spring Rack(453x453mm)	CS-PCS-8-R-CO-SR
	Universal Tray(445 x 445mm) Without Sticky Pad	CS-PCS-8-R-CO-TO
	Sticky Pad(4EA/SET)	CS-PCS-8-R-CO-SP
	Flask Holder 100ml(Stainless)	CS-PCS-CO-FH100
	Flask Holder 250ml(Stainless)	CS-PCS-CO-FH250
	Flask Holder 500ml(Stainless)	CS-PCS-CO-FH500
	Flask Holder 1000ml(Stainless)	CS-PCS-CO-FH1000
	Flask Holder 2000ml(Stainless)	CS-PCS-CO-FH2000
	Wooden Packing	CS-CO-50060

PURICELL_SHAKING X10

Large-capacity low-temperature shaking incubator suitable for shaking experiments and cultivation and capable of stably stirring large amounts of samples

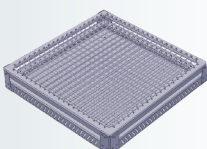


STANDARD SPECIFICATION

MODEL		PURICELL_SHAKING X10
Size	Inner(W x D x H)mm	760 x 720 x 480
	Out(W x D x H)mm	1008 x 873 x 997
	Platform(W x D)mm	700 x 650
	Weight(Kg)	200
Max Capacity		5,000ml x 5
Controller		Standard : Digital PID controller, Auto-tuning
Inside Material		Stainless steel
Outside Material		Cold rolled steel / Powder Coated
Shaking Platform		Optional onto built-in support fram(Anodized Aluminum)
TIME		Continuous or 99hr ~59min
Temperature	Range	10°C ~ 60°C
	Uniformity	±1°C at 37°C
	Sensor Type	PT 100Q
	Accuracy	±0.3°C at 37°C
Shaker	Orbit	40mm
	Speed Range	30 ~ 300 RPM
	RPM Accuracy	±3
Power		230V±10%, 50Hz, EU Standard Plug
Power Consumption		2,200W
Heater Capaciter		900W
Cat. No.		CS-PCS-X10-R-MB_5Z
		For 230V±10%, 60Hz CS-PCS-X10-R-MB_6Z

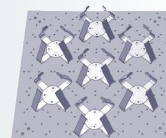
FEATURE PLUS A variety of options for shaking platform

Platform option) : Spring Rack
Flask can be fixed by spring wire and various sizes of flask can be fit.



Platform option) : Universal Tray
The flask can be hold by fitting a flask holder by size.

Max. Capacity of flask holders
100ml(49EA) / 250ml(34EA) /
500ml(25EA) / 1L(16EA) / 5L(5EA)



MAIN FEATURE



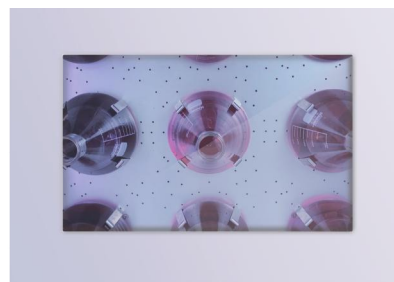
Door lock device

Unauthorized access can be restricted through a dial-type door lock.



LED lamp

It is easy to observe the inside with bright light without affecting the temperature of the internal chamber by installing an LED lighting with low heat generation inside.



Transparent window on the door

The transparent cover made of polycarbonate material is applied, so it can be opened and closed lightly, and the inside can be easily observed.



Refrigeration Function

A refrigeration system is standard to handle temperature-sensitive samples regardless of the laboratory environment temperature.



PID Microprocessor System

Provides reliable information on temperature and shaking speed through precise control system



Programmed defrosting system

As the refrigeration function continues, the defrost program automatically operates to prevent frost from accumulating in the evaporator, ensuring consistency in refrigeration efficiency



AC induction motor without vibration

The maintenance-free and long-life AC induction motor guarantees high-efficiency shaking performance.



Moisture removal filter

A moisture removal filter is installed on the transparent window to prevent internal fogging.



Door buffer suspension focusing on safety in use

Based on strong force, it acts as a buffer so that it closes smoothly when the door is closed, ensuring user safety.



Memory function for automatic recovery after power outage

It protects operating settings from unexpected power outages and automatically restores them to their previous state after power failure recovery.



Environment-friendly CFC free refrigerant

Use of eco-friendly refrigerants that do not contain CFCs



Scalability that can be used up to 5L flask

Thanks to the spacious interior space design, up to 5L flasks (5EA) can be used.

ORDER INFORMATION

DIVISION	ITEM	PURICELL_SHAKING X10
		Cat. No.
PRODUCT	With 50Hz Condition	CS-PCS-X10-R-MB_5Z
	With 60Hz Condition	CS-PCS-X10-R-MB_6Z
OPTION	Spring Rack(600 X 655mm)	CS-PCS-X10-R-CO-SR
	Universal Tray(700 x 650mm) Without Sticky Pad	CS-PCS-X10-R-CO-TO
	Flask Holder 100ml (Stainless)	CS-PCS-CO-FH100
	Flask Holder 250ml (Stainless)	CS-PCS-CO-FH250
	Flask Holder 500ml (Stainless)	CS-PCS-CO-FH500
	Flask Holder 1,000ml (Stainless)	CS-PCS-CO-FH1000
	Flask Holder 2,000ml (Stainless)	CS-PCS-CO-FH2000
	Flask Holder 5,000ml (Stainless)	CS-PCS-CO-FH5000
	Wooden Packing	CS-CO-50040



PURIKER CELL

An orbital shaker that can be used stably in a humidity and CO₂ controlled environment to help efficient cell growth in a CO₂ incubator.

MAIN FEATURE

LCD screen control panel that can be mounted outside the incubator

As a control panel attached to the outside of the incubator, it can be easily monitored and operated without opening the chamber, which is optimal design to prevent heat loss and CO₂ loss. It has convenience to adjust the position to be attached according to the shape of the incubator or the needs of researchers.

Space efficient design

It is a slim orbital shaker that can be installed inside devices such as CO₂ incubators. Its sticky mat platform support researchers to configure the flask arrangement freely to realize maximum capacity.

Magnetic drive motor with strong force

Excellent aeration is possible with high rotational force based on strong magnetic force. Minimal heat generation from powerful but low-power BLDC operation does not affect indoor culture temperature control, supporting stable culture work.



Long durability in harsh environments with 20% CO₂ and 80% humidity

It can be used for a long time even in a high humidity and gas environment in an incubator by applying corrosion-resistant parts and an aluminum case.





Low center of gravity platform for extension to larger tubes

With the design of the lowest platform height (85mm) in its class, it is possible to use larger flasks.

STANDARD SPECIFICATION

MODEL		PURIKER CELL
Size	Inner(W x D x H)mm	445 W x 360 D x 85 H (mm)
	Out(W x D x H)mm	400 x 325 (mm)
	Weight(Kg)	11.5KG
Controller		External Control Box
Motion Type		Orbital
Motor		Brushless DC motor
Speed Range		40 ~ 200 RPM (±2RPM)
Shaking Throw		25mm
Shaking Platform		Sticky Pad
Timer Range		99h 59min or continuous
Maximum Load		3KG
Power Supply		AC 100-200V, 50/60Hz, EU Standard Plug
Allowable Condition		4~60°C, 20~98% Rh, Up to 20% CO2
Tray Size		400mm X 325mm
Cat. No.		CS-PKR-CELL-Set

LOAD CAPACITY

Capacity With Sticky Stuff	For Erlenmeyer flask	25ml X 48EA
		50ml X 35EA
		100ml X 23EA
		250ml X 12EA
		500ml X 8EA
		1000ml X 5EA

ORDER INFORMATION

DIVISION	ITEM	PURIKER CELL
PRODUCT	Main Set	Cat. No. CS-PKR-CELL-Set

PURIKER OS

Experimental shaker that can be used for a long time without failure due to its durability

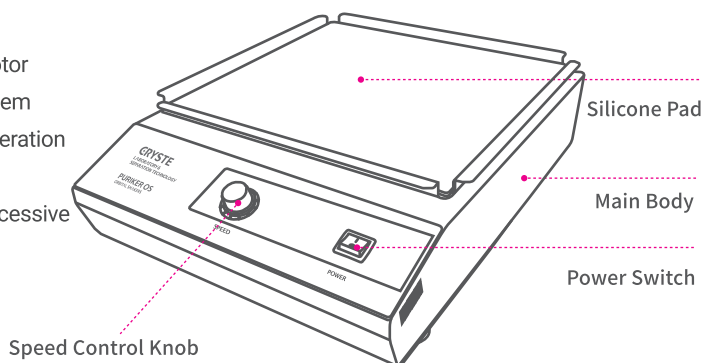


STANDARD SPECIFICATION

MODEL	PURIKER OS
Speed range	30 ~ 300 rpm
Shaking Throw	20mm
Motor	BLDC Motor
Speed Control	Analog Jog Dial
Platform size (WxDxH)mm	300 x 300
Size (WxDxH)mm	320 x 420 x 120
Power Consumption	30W
Power	AC100 ~ 240V, 50/60Hz
Weight(Kg)	12.1
Cat. No.	CS-PKR-OS-Set

MAIN FEATURE

- Guaranteed long-term operation by applying BLDC motor
- Accurate speed control through feedback control system
- Provides excellent shaking quality through smooth operation
- Stable use even at high speed with low-height design
- Provide "auto stop" and "alarm function" to prevent excessive force from being applied to the product
- Provides "silicone pad" to prevent slipping



ORDER INFORMATION

DIVISION	ITEM	PURIKER OS
		Cat. No.
PRODUCT	Main Set	CS-PKR-OS-Set

PURIKER RK

Experimental rocker with durable and smooth speed change

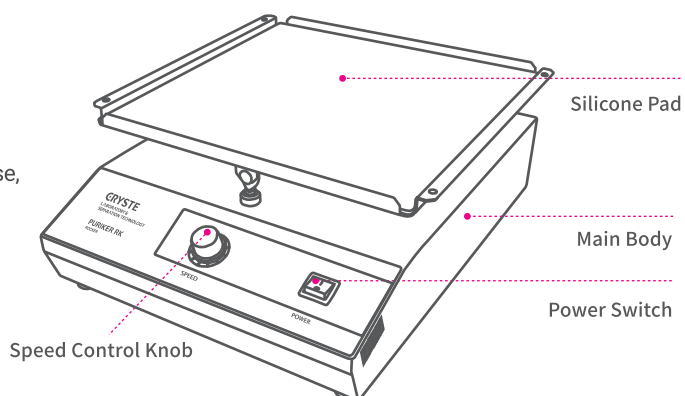


STANDARD SPECIFICATION

MODEL	PURIKER RK
Speed range	4 ~ 80 rpm
Tilt Angle	±9°
Motor	BLDC Motor
Speed Control	Analog Jog Dial
Platform size (WxDxH)mm	300 x 300
Size (WxDxH)mm	300 x 378 x 142
Power Consumption	20W
Power	AC100 ~ 240V, 50/60Hz
Weight(Kg)	5.4
Cat. No.	CS-PMX-Set

MAIN FEATURE

- Seesaw motion [2D motion]
- Equipped with a long-life BLDC motor without noise, spark, and electrical noise due to friction
- Silicone pad as standard
- 2nd level platform(option)



ORDER INFORMATION

DIVISION	ITEM	PURIKER RK
		Cat. No.
PRODUCT	Main Set	CS-PKR-RK-Set

PURIMIX

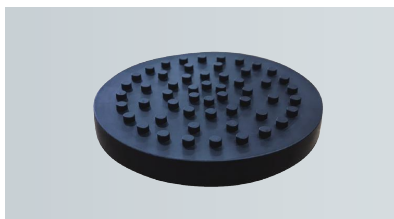
Compact vortex mixer for simple mixing of liquid sample



STANDARD SPECIFICATION

MODEL	PURIMIX	
Size	Out(W x D x H)mm	132 x 185 x 130
	Weight(Kg)	2.3
Mixing	Motion	Orbital
Material	Powder Coated Aluminum	
Speed Range	0 to 3,300 RPM	
Speed Control	Stepless	
Operating Mode	Touch or Continuous	
Throw	Circular Orbit, 4.00mm diameter	
Driving Motor	Brushless Shade Motor	
Shaking Load Capacity	0.5Kg	
Permissible Temp. & Humicity	5°C~40°C, < 80%	
Power	AC 230V±10%, 50/60Hz	
Power Consumption	30W	
Application Container/Number	Hand holding; any micro tube or conical tube	
Cat. No.	CS-PMX-Set	

FEATURE PLUS



3inch Rubber Platform Head



Pop-Off Cup Head



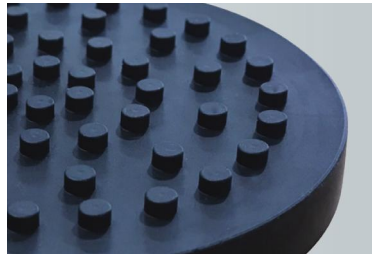
Remove Applicator

MAIN FEATURE



Multifunction Switch

Intuitive Power switch to control among three modes such as 'Continuous Action', 'Touch On' and 'Power Off'



Wide Application

Concavo-convex rubber head allows for mixing a variety of tubes with different shapes, sizes and materials.



Powerful performance and reliability

Powerful motor and robust steel case enable stable mixing.



Safety Assurance

Over heat and over current are not allowed to affect on a motor.



Changeable mixing speed

Mixing speed adjustment from slow speed to high speed (Max. 3,300rpm)



Long-life motor

Brushless shade motor has a long life cycle.

ORDER INFORMATION

DIVISION	ITEM	PURIMIX
		Cat. No.
PRODUCT	Main Set	CS-PMX-Set

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