



LABORATORY  
CENTRIFUGES


































# CRYSTE ✨

LABORATORY &  
SEPARATION TECHNOLOGY

Bio Safety Cabinets • Centrifuges •  
Autoclaves • Shaking Incubators










## CRYSTE Centrifuge Selection Guide

Centrifuge	Floor-top High Speed				Micro					
	VELOSPIN 22R		VELOSPIN 17R		PURISPIN 18R		PURISPIN 17R		PURISPIN 15	PURISPIN 6
										
Rotor Type(Angle/Swing)	Angle	Swing	Angle	Swing	Angle	Swing	Angle	Swing	Angle	Angle
Max.RCF	54,057 xg	3,265 xg	32,278 xg	3,265 xg	30,717 xg	16,343 xg	23,522 xg	16,343 xg	21,608 xg	1,800 xg
Max.RPM	22,000	4,000	17,000	4,000	18,000	13,000	17,000	13,000	15,000	6,200
Refrigeration	❄️		❄️		❄️		❄️			
Max. Capacity										
PCR Strip 	48		48		48		48		48	32
Micro Tubes (0.2~2.0ml) 	48		48		48	24	30	24	30	8
2.0ml Column 					18					
Micro Tubes (5.0ml) 					12		12		10	
5ml Conical 		36		36	12		12		10	
3ml 		48		48						
5ml 		48		48						
4.9ml 										
5.5ml 										
7.5ml 										
10ml 		48		48						
15ml 	12	48	12	48						
15ml Conical 	12	36	12	36	6					
50ml 	8	16	8	16						
50ml Conical 	8	12	8	12	6					
50ml Skirted 					6					
85ml 	6	8	6	8						
100ml 										
250ml 	6	4	6	4						
225ml Conical 										
500ml 	6		6							
500ml Conical 										
750ml 										
1000ml 	6									
1000ml 	4									
MTP 		16		16	4					
DWP 		4		4	2					

## Biocontainment Solution



Multi High Speed								Multi					
VARISPIN 15R		VARISPIN 15		VARISPIN 12R		VARISPIN 12		VARISPIN 6R		VARISPIN 6		VARISPIN 4	
													
Angle	Swing	Angle	Swing	Angle	Swing	Angle	Swing	Angle	Swing	Angle	Swing	Angle	Swing
23,847 xg	4,947 xg	23,847 xg	3,667 xg	16,647 xg	4,947 xg	16,647 xg	3,461 xg	5,357 xg	3,781 xg	5,357 xg	2,987 xg	2,689 xg	2,987 xg
15,000	5,000	15,000	4,000	12,000	5,000	12,000	4,000	6,000	4,500	6,000	4,000	4,000	4,000
❄				❄				❄					
48		48		48		48							
48		48		48		48			24		24		24
	56		56		36		36		12		28		12
	96		96		48		48	24		24	48	24	24
	96		96		48		48	24	20	24	48	24	20
	48		48		48		48		*16		48		*16
	48		48		48		48		*12		48		*12
	48		48		48		48		*12		48		*12
	76		76		48		48	24	16	24	48	24	16
12	76	12	76	12	48	12	48	24	12	24	48	24	12
12	56	12	56	12	36	12	36	24	12	24	28	24	12
8	28	8	28	8	16	8	16		4		16		6
8	20	8	20	8	12	8	12	8	4	8	12		6
6	8	6	8	6	8	6	8		4		8		4
	4				4				4		4		4
4	4	4	4		4		4				4		
	4		4										
	4		4										
	4		4										
	4		4										
	16		16		16		16		4		4		4
	4		4		4		4		2		2		2

\* With customized adaptors

### Aerosol-tightness angle rotor with AXLLOCK



## FLOOR-TOP CENTRIFUGE

Floor-top high speed centrifuge that can stably **separate large throughput samples** thanks to the powerful motor's centrifugal power and high-performance cooling device, and **maximizes laboratory efficiency** by minimizing idle time between cycles.



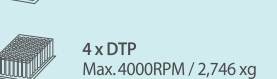
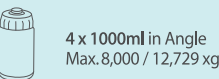
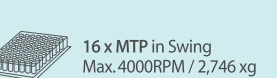
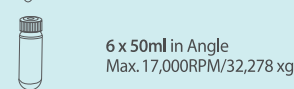
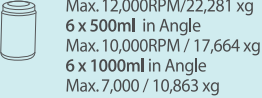
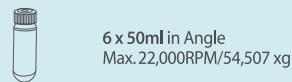
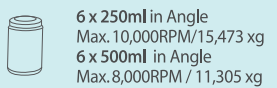
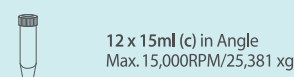
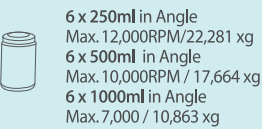
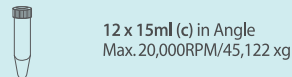
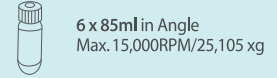
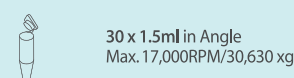
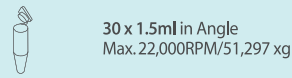
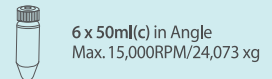
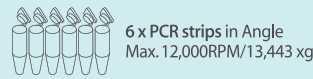
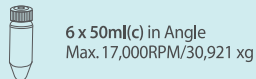
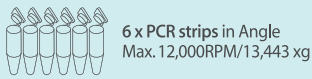
### VELOSPIN 22R

	Angle rotor	Swing rotor
RPM	22,000	4,000
RCF	54,057 xg	3,265 xg
Capacity	1,000ml x 6	250ml x 4



### VELOSPIN 17R

	Angle rotor	Swing rotor
RPM	17,000	4,000
RCF	32,278 xg	3,265 xg
Capacity	500ml x 6	250ml x 4



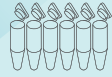
## ROTOR RANGE

Applicable Model	Angle Rotor							Swing Rotor
	A480.2H (0.2ml x 8 x 6)	A301.5H (1.5ml x 30)	A481.5H (1.5ml x 48)	A1215H (15ml x 12)	A1215HC (15ml conical x 12)	A650H (50ml x 6)	A650HC (50ml conical x 6)	S4250HE (250ml x 4)
VELOSPIN 22R	■	■	■	■	■	■	■	■
VELOSPIN 17R	■	■	■	■	■	■	■	■
	A850H (50ml x 8)	A685H (85ml x 6)	A6250H (250ml x 6)	A6500H (500ml x 6)	A41000H (1000ml x 4)	A41000HR (1000ml x 4)	A61000H (1000ml x 6)	
VELOSPIN 22R	■	■	■	■	■	■	■	
VELOSPIN 17R	■	■	■	■				



## BENCH-TOP MICRO CENTRIFUGE

Refrigerated microcentrifuges with multiple functions that can be used in a wide range of fields such as laboratories, hospitals, and university laboratories. These series enable efficient separation for PCR, nucleic acids application, and support efficient experiments by fast cooling.



6 x PCR strips in Angle  
Max. 11,000RPM/11,296 xg



24 x 1.5ml in Angle  
Max. 18,000RPM/30,717 xg  
48 x 1.5ml in Angle  
Max. 13,000RPM / 17,912 xg  
12 x 5ml in Angle  
Max. 14,000RPM / 20,357 xg



6 x 15ml(c) in Angle  
Max. 8,000RPM/6,597 xg



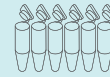
6 x 50ml(c) in Angle  
Max. 8,000RPM / 7,191 xg



4 x MTP / 2 x DWP in Swing  
Max. 5,000RPM/2,655 xg

### PURISPIN 18R

	Angle rotor	Swing rotor
RPM	18,000	13,000
RCF	30,717 xg	16,343 xg
Capacity	50ml Conical x 6	1.5/2.0ml x 24



6 x PCR strips in Angle  
Max. 11,000RPM/11,296 xg



18 x 1.5ml in Angle  
Max. 17,000RPM/23,522 xg  
24 x 1.5ml in Angle  
Max. 15,000RPM/21,331 xg  
30 x 1.5ml in Angle  
Max. 14,000RPM / 20,773 xg  
12 x 5ml in Angle  
Max. 14,000RPM / 20,357 xg

### PURISPIN 17R

	Angle rotor	Swing rotor
RPM	17,000	13,000
RCF	23,522 xg	16,343 xg
Capacity	1.5/2.0ml x 30	1.5/2.0ml x 24

## ROTOR RANGE

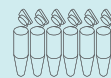
### Angle Rotor

Applicable Model	A480.2M (0.2ml x 8 x 6)	A241.5M (1.5ml x 24)	AS241.5MX (1.5ml x 24)	A301.5M (1.5ml x 30)	A481.5M (1.5ml x 48)	A181.5MS (1.5ml x 18)	A181.5MH (1.5ml column x 18)	A125M (5ml x 12)	A650M (50ml conical x 6)
VARISPIN 18R	■	■	■	■	■	■	■	■	■
VARISPIN 17R	■	■	■	■	■	■	■	■	■

### Swing Rotor

Applicable Model	S61.5M (1.5ml x 4 x 6)	S2M-MTP (4MTP / 2DWP)
VARISPIN 18R	■	■
VARISPIN 17R	■	■

A micro centrifuge widely used in essential nucleic acid separation research with a compact design.



6 x PCR strips in Angle  
Max. 11,000RPM/11,296 xg



24 x 1.5ml in Angle  
Max. 15,000RPM/21,331 xg  
30 x 1.5ml in Angle  
Max. 12,000RPM / 15,262 xg  
10 x 5ml in Angle  
Max. 15,000RPM / 21,608 xg

## ROTOR RANGE

### Angle Rotor

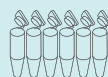
Applicable Model	A480.2S (0.2ml x 8 x 6)	A241.5S (1.5ml x 24)	AS241.5SX (1.5ml x 24)	A301.5S (1.5ml x 30)	A105S (5ml x 10)
PURISPIN 15	■	■	■	■	■

### PURISPIN 15

	Angle rotor
RPM	15,000
RCF	21,608 xg
Capacity	1.5/2.0ml x 30 5ml x 10

### PURISPIN 6

	Angle rotor
RPM	6,200
RCF	1,800 xg
Capacity	8 x 0.2/0.5/ 1.5/2.0ml



4 x PCR strips in Angle  
Max. 6,200RPM/1,800 xg



8 x 1.5ml in Angle  
Max. 6,200RPM/1,800 xg



## BENCH-TOP MULTI CENTRIFUGE

Due to the large size of accommodation chamber, these series support sufficiently wide application through a variety of rotors. Practically, these centrifuges support to easily handle mass processing in the treatment of blood separation, clinical pathology, and general molecular experiments.



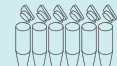
**VARISPIN 15R**


	Angle rotor	Swing rotor
RPM	15,000	5,000
RCF	23,847 xg	4,947 xg
Capacity	250ml x 4	750ml x 4






**VARISPIN 15**


	Angle rotor	Swing rotor
RPM	15,000	4,000
RCF	23,847 xg	3,667 xg
Capacity	250ml x 4	750ml x 4


 6 x PCR strips in Angle  
Max. 12,000RPM/13,443 xg




 30 x 1.5ml in Angle  
Max. 15,000RPM/23,847 xg


 96 x 3/5ml, 76x10ml in Swing  
Max. 4,000RPM/3,542 xg





 12 x 15ml (c) in Angle  
Max. 13,000RPM/19,064 xg  
 56 x 15ml(c) in Swing  
Max. 4,000RPM / 3,506 xg


 8 x 50ml in Angle  
Max. 12,000RPM/16,647 xg

 16 x MTP / 4 x DWP in Swing  
Max. 4,000RPM/3,041 xg

 6 x 50ml(c) in Angle  
Max. 13,000RPM/18,082 xg  
 20 x 50ml(c) in Swing  
Max. 4,000RPM / 3,613 xg  
 4 x 50ml(c) in Swing / Refrigeration  
Max. 5,000RPM / 4,947 xg

 6 x 85ml in Angle  
Max. 12,000RPM/16,067 xg

 4 x 250ml in Swing  
Max. 4,000RPM / 3,667 xg  
 4 x 250ml in Swing / Refrigeration  
Max. 4,500RPM/4,381 xg  
 4 x 250ml in Angle  
Max. 8,000RPM / 9,180 xg  
 4 x 500ml in Swing  
Max. 4,000RPM / 3,810 xg

 4 x 750ml in Swing  
Max. 4,000RPM/3,667 xg




**VARISPIN 12R**


	Angle rotor	Swing rotor
RPM	12,000	5,000
RCF	16,647 xg	4,947 xg
Capacity	85ml x 6	250ml x 4






**VARISPIN 12**


	Angle rotor	Swing rotor
RPM	12,000	4,000
RCF	16,647xg	3,461 xg
Capacity	85ml x 6	250ml x 4


 6 x PCR strips in Angle  
Max. 12,000RPM/13,443 xg


 30 x 1.5ml in Angle  
Max. 12,000RPM/15,262 xg


 48 x 3/5/10ml in Swing  
Max. 4,000RPM/3,175 xg

 12 x 15ml (c) in Angle  
Max. 12,000RPM/16,244 xg  
 36 x 15ml(c) in Swing  
Max. 4,000RPM / 3,232 xg



 8 x 50ml in Angle  
Max. 12,000RPM/16,647 xg


 6 x 50ml(c) in Angle  
Max. 12,000RPM/15,407 xg

 12 x 50ml(c) in Swing  
Max. 4,000RPM / 3,229 xg

 4 x 50ml(c) in Swing / Refrigeration  
Max. 5,000RPM / 4,947 xg

 6 x 85ml in Angle  
Max. 12,000RPM/16,067 xg

 4 x 250ml in Swing  
Max. 4,000RPM / 3,461 xg  
 4 x 250ml in Swing / Refrigeration  
Max. 4,500RPM/4,381 xg

 16 x MTP / 4 x DWP in Swing  
Max. 4,000RPM/2,746 xg

## ROTOR RANGE

### Angle Rotor

Applicable Model							
	A480.2T (0.2ml x 8 x 6)	A301.5T (1.5ml x 30)	AS301.5TX (1.5ml x 30)	A481.5T (1.5ml x 48)	A1215T (15ml x 12)	A1215TC (15ml conical x 12)	A650T (50ml x 6)
VARISPIN 15R	■	■	■	■	■	■	■
VARISPIN 15	■	■	■	■	■	■	■
VARISPIN 12R	■	■	■	■	■	■	■
VARISPIN 12	■	■	■	■	■	■	■

Applicable Model					
	A650TC (50ml conical x 6)	A850T (50ml x 8)	A685T (85ml x 6)	AS685TX (85ml x 6)	A4250T (250ml x 4)
VARISPIN 15R	■	■	■	■	■
VARISPIN 15	■	■	■	■	■
VARISPIN 12R	■	■	■	■	■
VARISPIN 12	■	■	■	■	■

### Swing Rotor

Applicable Model				
	S4250TE (250ml x 4)	S4250T (250ml x 4)	S4100T (100ml x 4)	S4750T (750ml x 4)
VARISPIN 15R	■	■	■	■
VARISPIN 15	■	■	■	■
VARISPIN 12R	■	■	■	■
VARISPIN 12	■	■	■	■

## BENCH-TOP MULTI LOW SPEED CENTRIFUGE


The size of the chamber is large enough to **handle medium-volume samples**, and angle rotors and swing rotors are available optionally. This model is optimized to easily handle centrifugation of relatively repetitive samples for blood/urine separation **under refrigeration**.




### VARISPIN 6R


Angle Rotor	RPM	RCF	Capacity
	6,000	5,357 xg	50ml conicalx8


Swing Rotor	RPM	RCF	Capacity
	4,500	3,781 xg	100ml x 4


 24 x 1.5ml in Swing  
Max. 4,500RPM/3,713 xg

24 x 3ml in Angle  
Max. 4,000RPM/2,227 xg


 8 x 50ml(c) in Angle  
Max. 6,000RPM/5,357 xg


 8 x 15ml (c) in Angle  
Max. 6,000RPM/5,244 xg  
12 x 15ml(c) in Swing  
Max. 4,500RPM / 3,781 xg

 24 x 5ml in Angle  
Max. 4,000RPM/2,556 xg  
20 x 5ml in Swing  
Max. 4,500RPM/3,713 xg

 4 x 50ml(c) in Swing  
Max. 4,500RPM / 3,781 xg


24 x 10ml in Angle  
Max. 4,000RPM/2,585 xg  
16 x 10ml in Swing  
Max. 4,500RPM/3,713 xg

 4 x 100ml in Swing  
Max. 4,500RPM/3,713 xg

 4 x MTP / 2 x DWP in Swing  
Max. 4,000RPM/2,003 xg

## ROTOR RANGE

### Angle Rotor

Applicable Model			
	AL1615G (15ml x 16)	AL2415G (15ml x 24)	A850GC (50ml conical x 8)
VARISPIN 6R	■		■
VARISPIN 6	■	■	■
VARISPIN 4	■	■	

### Swing Rotor

			
S650G (50ml x 6)	S4100G (100ml x 4)	S4250GE (250ml x 4)	S2G-MTP (4MTP x 2DWP)
■	■	■	■
■	■	■	■
■	■	■	■


With a variety of rotors, it can meet different needs required in blood sample study. The size of the chamber is large enough to **handle medium-volume samples**, and angle rotors and swing rotors are available optionally. These models are optimized to easily handle centrifugation of relatively repetitive samples. Its wide blue LCD screen controller gives the information of essential parameters intuitively.





### VARISPIN 6


Angle Rotor	RPM	RCF	Capacity
	6,000	5,357 xg	50ml conical x 8


Swing Rotor	RPM	RCF	Capacity
	4,000	2,987 xg	250ml x 4


 24 x 1.5ml in Swing  
Max. 4,000RPM/2,934 xg


 48 x 15ml in Swing  
Max. 3,500RPM/2,226 xg


 6 x 50ml in Swing  
Max. 4,000RPM/2,987 xg  
16 x 50ml in Swing  
Max. 3,500 RPM / 2,226 xg

 4 x 100ml in Swing  
Max. 4,000RPM/2,934 xg

 24 x 3ml in Angle  
Max. 4,000RPM/2,227 xg  
24 x 5ml in Angle  
Max. 4,000RPM/2,556 xg  
24 x 10ml in Angle  
Max. 4,000RPM/2,585 xg  
48 x 3/5/10ml in Swing  
Max. 3,500RPM/2,226 xg


 8 x 15ml (c) in Angle  
Max. 6,000RPM/5,244 xg

 6 x 15ml (c) in Swing  
Max. 4,000RPM/2,987 xg


 28 x 15ml(c) in Swing  
Max. 3,500RPM / 2,294 xg

 8 x 50ml(c) in Angle  
Max. 6,000RPM/5,357 xg

 6 x 50ml(c) in Swing  
Max. 4,000RPM/2,987 xg

 12 x 50ml(c) in Swing  
Max. 3,500RPM / 2,294 xg


 4 x 250ml in Swing  
Max. 3,500RPM / 2,267 xg

 4 x MTP / 2 x DWP in Swing  
Max. 4,000RPM/2,003 xg


### VARISPIN 4


Angle Rotor	RPM	RCF	Capacity
	4,000	2,689 xg	15ml x 24


Swing Rotor	RPM	RCF	Capacity
	4,000	2,987 xg	100ml x 4


 24 x 1.5ml in Swing  
Max. 4,000RPM/2,934 xg


 24 x 3ml in Angle  
Max. 4,000RPM/2,227 xg


 16 x 15ml in Angle  
Max. 4,000RPM/2,689 xg  
24 x 15ml in Angle  
Max. 4,000RPM / 2,585 xg


 4 x 100ml in Swing  
Max. 4,000RPM/2,934 xg

 24 x 15ml (c) in Angle  
Max. 4,000RPM/2,486 xg  
12 x 15ml(c) in Swing  
Max. 4,000RPM / 2,987 xg

 24 x 5ml in Angle  
Max. 4,000RPM/2,556 xg  
20 x 5ml in Swing  
Max. 4,000RPM/2,934 xg

 24 x 10ml in Angle  
Max. 4,000RPM/2,585 xg  
16 x 10ml in Swing  
Max. 4,000RPM/2,934 xg

 6 x 50ml / 6 x 50ml(c) in Swing  
Max. 4,000RPM / 2,987 xg

 4 x MTP / 2 x DWP in Swing  
Max. 4,000RPM/2,003 xg



## DIVERSE PRODUCT LINE-UP

### LABORATORY SAFETY CABINETS



**PURICUBE PRIME**

EN Certified Class II Biological Safety Cabinet



**PURICUBE NEO**

Class II Biological Safety Cabinet



**PURI FUME**

Chemical Fumehood

### SHAKING INCUBATORS



**PURICELL\_SHAKING X10**

Floor Standing Shaking Incubator



**PURICELL\_SHAKING 80**

Benchtop Shaking Incubator



### EXTRA PRODUCTS PROVIDED BY CRYSTE



**PURIKER OS**

Orbital Shaker



**PURIKER RK**

Rocker



**PURIMIX**

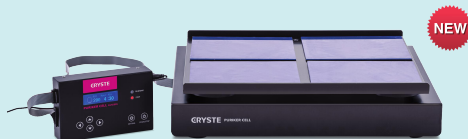
Vortex Mixer



**PURISTER**

Autoclave

### NEW PRODUCT



**PURIKER CELL**

CO<sub>2</sub> Resistant Orbital Shaker

- Long durability in harsh environments(CO<sub>2</sub>, Humidity)
- Space efficient design for extension to larger tubes
- LCD Screen control panel that can be mounted outside the incubator
- Magnetic drive motor with strong force