CRYSTE

LABORATORY & SEPARATION TECHNOLOGY

Centrifuges

RIEGER
Industrievertretungen GmbH

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

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

30 x 1.5ml in Angle
Max. 22,000RPM/51,297 xg

12 x 15ml (c) in Angle
Max. 20,000RPM/45,122 xg

6 x 50ml in Angle
Max. 22,000RPM/54,507 xg

6 x 50ml(c) in Angle
Max. 17,000RPM/30,921 xg

6 x 85ml in Angle
Max. 20,000RPM/44,631 xg

6 x 250ml in Angle
Max. 12,000RPM/22,281 xg
6 x 500ml in Angle
Max. 10,000RPM / 17,664 xg
6 x 1000ml in Angle
Max. 7,000 / 10,863 xg

4 x 1000ml in Angle
Max. 8,000 / 12,729 xg

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

30 x 1.5ml in Angle
Max. 17,000RPM/30,630 xg

12 x 15ml (c) in Angle
Max. 15,000RPM/25,381 xg

6 x 50ml in Angle
Max. 17,000RPM/32,278 xg

6 x 50ml(c) in Angle
Max. 15,000RPM/24,073 xg

6 x 85ml in Angle
Max. 15,000RPM/25,105 xg

6 x 250ml in Angle
Max. 10,000RPM/15,473 xg
6 x 500ml in Angle
Max. 8,000RPM / 11,305 xg

16 x MTP in Swing
Max. 4000RPM / 2,746 xg

4 x DTP
Max. 4000RPM / 2,746 xg

ROTOR RANGE

	Angle Rotor							Swing Rotor
Applicable Model	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

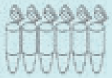
6 x 15ml(c) in Angle
Max. 8,000RPM/6,597 xg

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

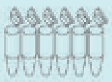
Angle Rotor

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 conicalx 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

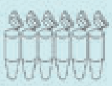
Applicable Model					
	A480.2S (0.2ml x 8 x 6)	A241.5S (1.5ml x 24)	AS241.5SX (1.5ml x 24)	A301.5S (1.5ml x 30)	A105S (5ml x 10)
PURISPIN 15	■	■	■	■	■

PURISPIN 15

	Angle rotor
RPM	15,000
RCF	21,608 xg
Capacity	1.5/2.0ml x 30 5mlx10

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/3,041xg

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 x g
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

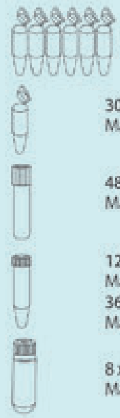
4 x 750ml in Swing
Max. 4,000RPM/3,667 xg

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

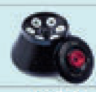
6 x 85ml in Angle
Max. 12,000RPM/16,067 xg

4 x 250ml in Swing
Max. 4,000RPM / 3,461 x g
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

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 3ml in Angle
Max. 4,000RPM/2,227 xg
24 x 5ml in Angle
Max. 4,000RPM/2,556 xg
20 x 5ml in Swing
Max. 4,500RPM/3,713 xg
24 x 10ml in Angle
Max. 4,000RPM/2,585 xg
16 x 10ml in Swing
Max. 4,500RPM/3,713 xg

8 x 50ml(c) in Angle
Max. 6,000RPM/5,357 xg
4 x 50ml(c) in Swing
Max. 4,500RPM / 3,781 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			Swing Rotor			
Applicable Model	AL1615G (15ml x 16)	AL2415G (15ml x 24)	A850GC (50ml conical x 8)	S650G (50ml x 6)	S4100G (100ml x 4)	S4250GE (250ml x 4)	S2G-MTP (4MTP x 2DWP)
VARISPIN 6R	■		■		■		■
VARISPIN 6	■	■	■	■	■	■	■
VARISPIN 4	■	■		■	■		■

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

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

48 x 15ml 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

6 x 50ml in Swing
Max. 4,000RPM/2,987 xg
16 x 50ml in Swing
Max. 3,500 RPM /2,226 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 100ml in Swing
Max. 4,000RPM/2,934 xg

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

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

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

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

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

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

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

Unser weiteres Lieferprogramm:

AVIDITY SCIENCE

Reinstwasser - Laborsysteme

aralab

Pflanzenwuchsschränke / Klimaprüfschränke

Baker RUSKINN

Anaerobe, Mikroaerophile und Hypoxische Werkbänke

CHRIST

Gefriertrocknungsanlagen / Labor – Pilot – Produktion

Custom BioGenic Systems

Isothermal LN2 Lagertanks / Kontrollierte Einfriergeräte

CLEANAIR by BAKER

Mikrobiologische Sicherheitswerk-bänke / Recover CO2 Brutschränke

CRYSTAL

Schüttelapparate / Schüttelinkubatoren

Stirling ULTRACOLD

Ultracold Tiefkühlschränke / Portable Freezer

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