

**CRYSTE** SEPARATION TECHNOLOGY | MULTI PURPOSE CENTRIFUGE

**RIEGER**  
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## 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	<50dB(A)	
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 <sup>1)</sup>			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 <b>Aerosol-tight</b> <b>AXLLOCK</b>			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	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		29.5	
Max. height for use (mm)	117		129		122		120	
RPM	12,000		12,000		12,000		12,000	
Radius (mm)	97.1		100.9		94.3		99.9	
RCF	15,632		16,244		15,182		16,083	

Rotor	A850T			A685T			AS685TX <sup>2)</sup>				
											
	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	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	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 <sup>3)</sup>								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