



## VARISPIN 12R MULTI CENTRIFUGE

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



### ● ● ● STANDARD SPECIFICATION



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	
Available Rotor Quantity	12	
Power Supply	V12R-MB	AC 230V ± 10%, 50-60Hz, 1Phase
	V12R-MBT	AC 120V ± 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	

## ● ● ● MAIN FEATURE

### ● Wide Range of Application

Various rotor options for multiple purposes in different users

### ● 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

### ● Silent Operation

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

### ● Ideal Security

Unauthorized access is prohibited through password

### ● Biocontainment Rotor/Bucket Option

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

### ● A Variety of Tubes Applicable

- Various sizes of tube are available from 0.2ml to 250ml
- Proper tube adaptors are selectable

### ● Refrigerator and Fast Cool Function

- Pre-cooling before use is available so that user can minimize the risk of degradation of thermal sensitive samples.
- 4°C at maximum speed is ensured

### ● Energy Saving

- Pre-set energy saving mode can help to reduce the electrical operating cost
- Unnecessary operation without the real-use can be controlled by Standby Mode and Eco Shut-off setting

### ● Drainage

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

## ● ● ● ORDER INFORMATION

	ITEM	DESCRIPTIONS	ORDER CODE
Main Body	VARISPIN 12R	VARISPIN 12R, refrigerated, without rotor, 230V/50~60Hz	V12R-MB
	VARISPIN 12R	VARISPIN 12R, refrigerated, without rotor, 120V/50~60Hz	V12R-MBT
Angle Rotor	A480.2T	0.2ml x 48 fixed angle rotor for PCR tubes(x6 PCR strips) (Max 12,000RPM)	V12R-AR1
	A301.5T	1.5/2.0ml x 30 fixed angle rotor (Max 12,000RPM)	V12R-AR2
	A481.5T	1.5/2.0ml x 48 fixed angle rotor (Max 12,000RPM)	V12R-AR3
	A1215T	15ml x 12 fixed angle rotor (Max 12,000RPM)	V12R-AR4
	A1215TC	15ml x 12 fixed angle rotor for conical tubes (Max 12,000RPM)	V12R-AR5
	A650T	50ml x 6 fixed angle rotor (Max 12,000RPM)	V12R-AR6
	A650TC	50ml x 6 fixed angle rotor for conical tubes (Max 12,000RPM)	V12R-AR7
	A850T	50ml x 8 fixed angle rotor (Max 12,000RPM)	V12R-AR8
	A685T	85ml x 6 fixed angle rotor (Max 12,000RPM)	V12R-AR9
Swing Rotor	S4250TE	250ml x 4-wing swing rotor for rectangular/micro plate buckets (Max 4,000RPM)	V12R-SR1
	S4250T	250ml x 4-wing swing rotor for round buckets (Max 4,500RPM)	V12R-SR2
	S4100T	100ml x 4-wing swing rotor for round buckets (Max. 5,000RPM)	V15R-SR3

## ●●● AVAILABLE ANGLE ROTORS

LAB.SAFETY













CENTRIFUGES

LAB.BASIC

























<b>Rotor</b>								
	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 $\angle 45^\circ$ 48 x 1.5ml Radius(mm) : 94.8		
<b>Item</b>	<b>A480.2T</b>		<b>A301.5T</b>			<b>A481.5T</b>		
<b>Tube</b>								
<b>Volume (ml)</b>	0.2	0.2ml Strips	0.2	0.5	1.5 / 2.0	0.2	0.5	1.5 / 2.0
<b>Adaptor / tube rack</b>								
<b>Item</b>			F1.5A-0.2		F1.5A-0.5	F1.5A-0.2		F1.5A-0.5
<b>Number per rack / rotor</b>	48	6	30	30	30	48	48	48
<b>Adaptor bore (mm)</b>	6.5	6.5	6.5	8	11	6.5	8	11
<b>Max. height for use (mm)</b>	-	-	44	52	61	In 51 Out 44	In 62 Out 54	In 70 Out 61
<b>RPM</b>	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
<b>Radius (mm)</b>	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
<b>RCF</b>	13,443	13,443	12,928	13,958	15,262	In 11,318 Out 12,928	In 12,348 Out 13,958	In 13,652 Out 15,262

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















## ● ● ● AVAILABLE ANGLE ROTORS




















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

## ● ● ● AVAILABLE SWING ROTORS

<b>S4250TE</b>	<b>EB250 EBS250<sup>1)</sup></b>									<b>BW250</b>	
											
	S250ET-3-12	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											
<b>Capacity (ml)</b>	3	5	10	15	15 Conical	50	50 Conical	85	250	MTP	DWP
<b>Number per rack / rotor</b>	12/48	12/48	12/48	12/48	9/36	4/16	3/12	2/8	1/4	4/16	1/4
<b>Adaptor bore (mm)</b>	13.2	13.2	16	17.2	17	29.5	29.5	38.5	62.5	-	-
<b>Max. height for use (mm)</b>	124	124	124	124	127	124	127	124	138	-	-
<b>RPM</b>	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
<b>Radius (mm)</b>	177.5	177.5	177.5	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5
<b>RCF</b>	3,175	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](#)

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							
<b>Volume (ml)</b>	5	10	15	15 Conical	50	50 Conical	250
<b>Number per rack / rotor</b>	8/32	7/28	5/20	4/16	2/8	1/4	1/4
<b>Adaptor bore (mm)</b>	13.5	16	17.5	17	29.5	30	62.0
<b>Max. height for use (mm)</b>	145	145	145	148	145	150	150
<b>RPM</b>	4,500	4,500	4,500	4,500	4,500	4,500	4,500
<b>Radius (mm)</b>	190.5	190.5	190.5	193.5	190.5	193.5	193.5
<b>RCF</b>	4,313	4,313	4,313	4,381	4,313	4,381	4,381

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



## CRYSTE MULTI CENTRIFUGE

### Supporting you all the way

**Suitable for a variety of applications in general research laboratory & Clinic**

- High speed
- Treatment for large sample volumes
- Efficient refrigeration system
- Optimized chamber size for multiple rotor options

VARISPIN series have versatility through many options and accessories.