



## VARISPIN 12

### MULTI CENTRIFUGE

보다 많은 양의 시료 처리를 위한  
다목적 공냉식 원심분리기



### ● ● ● STANDARD SPECIFICATION



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 (10set)	
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	
Available Rotor Quantity	11	
Power Supply	230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	1,300W	
Dimension(W x D x H)	496 x 657 x 360 mm (H:895mm with open lid)	
Weight (without rotor)	55kg	

## ●●● MAIN FEATURE

### ● 공간활용성과 넓은 사용 범위

공간활용이 용이한 중형 크기의 원심분리기로서, 다양한 로터 옵션이 가능하여, 한정된 공간 대비, 높은 활용도를 지니고 있습니다.

### ● 안정적인 공냉식 제어

로터의 고속회전으로 인한 마찰열을 효율적으로 배기하여 챔버 내외 온도상승을 최소화 하였습니다.

### ● 편리한 터치 컨트롤러

사용자 친화적인 4.3" Full 컬러 터치식 LCD 컨트롤러를 적용하였습니다.

한번에 모든 설정값을 확인할 수 있고, 간단한 방법으로 항목 설정이 가능합니다.
















### ● 튜브 사용 범위

0.2ml부터 250ml 까지 다양한 사이즈의 튜브 사용이 가능합니다.













## ●●● ORDER INFORMATION

	ITEM	DESCRIPTIONS	ORDER CODE
Main Body	VARISPIN 12 Set	VARISPIN 12, with rotor S4250TE, including bucket EB250 (4EA), and tube rack S250ET-50C-3 (2EA), S250ET-15C-9 (2EA), 230V/50~60Hz	V12-SET
	VARISPIN 12	VARISPIN 12, refrigerated, without rotor, 230V/50~60Hz	V12-MB
Angle Rotor	A480.2T	0.2ml x 48 fixed angle rotor for PCR tubes(x6 PCR strips) (Max 12,000RPM)	V12-AR1
	A301.5T	1.5/2.0ml x 30 fixed angle rotor (Max 12,000RPM)	V12-AR2
	A481.5T	1.5/2.0ml x 48 fixed angle rotor (Max 12,000RPM)	V12-AR3
	A1215T	15ml x 12 fixed angle rotor (Max 12,000RPM)	V12-AR4
	A1215TC	15ml x 12 fixed angle rotor for conical tubes (Max 12,000RPM)	V12-AR5
	A650T	50ml x 6 fixed angle rotor (Max 12,000RPM)	V12-AR6
	A650TC	50ml x 6 fixed angle rotor for conical tubes (Max 12,000RPM)	V12-AR7
	A850T	50ml x 8 fixed angle rotor (Max 12,000RPM)	V12-AR8
	A685T	85ml x 6 fixed angle rotor (Max 12,000RPM)	V12-AR9
Swing Rotor	S4250TE	250ml x 4-wing swing rotor for rectangular/micro plate buckets (Max 4,000RPM)	V12-SR1
	S4250T	250ml x 4-wing swing rotor for round buckets (Max 4,000RPM)	V12-SR2













## ●●● AVAILABLE ANGLE ROTORS

Rotor								
	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		
Item	A480.2T		A301.5T			A481.5T		
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	6.5	8	11
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	12,000	12,000	12,000	12,000	12,000	12,000
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	12,928	13,958	15,262	In 11,318 Out 12,928	In 12,348 Out 13,958	In 13,652 Out 15,262

Rotor								
	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	
Item	A1215T		A1215TC		A650T		A650TC	
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						
	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			
Item	A850T		A685T			
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	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	12,000
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




## ••• AVAILABLE SWING ROTORS

LAB.SAFETY

CENTRIFUGES

LAB.BASIC

S4250TE	EB250									BW250	
 <p>Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 182.5 Max. RCF : 3,265</p>											
	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		
											
											
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	12/48	9/36	4/16	3/12	2/8	1/4	4/16	1/4
Adaptor bore (mm)	13.2	13.2	16	17.2	17	29.5	29.5	38.5	62.5	-	-
Max. height for use (mm)	124	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	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5
RCF	3,175	3,175	3,175	3,175	3,232	3,175	3,229	3,175	3,229	2,746	2,746

S4250T	B250								
 <p>Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 193.5 Max RCF : 3,461</p>									
									
Capacity (ml)	250								
Number per rack / rotor	1/4								
Adaptor bore (mm)	62								
Max. height for use (mm)	150								
RPM	4,000								
Radius (mm)	193.5								
RCF	3,461								

## CRYSTE FLIP

Modern touching way as in your smart phone,  
Stop reading operating manual  
whenever setting newly.

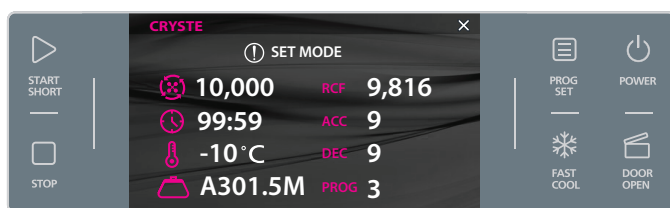


### Applicable model

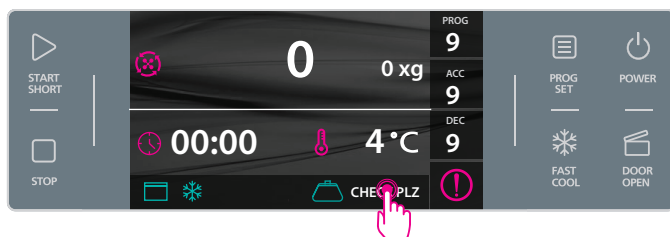
PURISPIN 18R	VARISPIN 15R	VARISPIN 12R	VELOSPIN 22R	VELOSPIN 12R
PURISPIN 17R	VARISPIN 15	VARISPIN 12	VELOSPIN 17R	TERASPIN R-A6



Easy to load the saved program



Easy to check the set value at a time



Easy to recognize the new rotor name

More features optimized for everyday use.

### Setting

- Set for RPM/RCF
- Set for Time
- Set for Temperature(in refrigerated model)
- Set for acceleration / Deceleration
- Activate automatic rotor identification
- Save each program(up to 100 spaces)
- Activate/inactivate touch screen key lock

### Indication icons

- Door status
- Refrigeration status(in refrigerated model)
- Rotor name
- Key lock status
- Enter the set parameter Indication screen

### Alarm Function

- Display alarm message in malfunctioning

### Mode

- Modify user password
- LCD bright level adjustment
- Activate/inactivate buzzer
- Change the time count method
- Activate/inactivate standby mode & adjust standby time
- Activate/inactivate eco shut OFF mode & adjust its time(in refrigerated model)