


## VARISPIN 15R

Refrigerated multi purpose centrifuge with large capacity and a variety of rotor options

## STANDARD SPECIFICATION

| Description | VARISPIN 15R | |
|---|---|---|
| Max. RPM | 15,000RPM(Angle Rotor) | 5,000RPM(Swing Rotor) |
| Max. RCF | 23,847 xg | 4,947 xg |
| Max. Capacity | 250ml x 4 | 750ml x 4 |
| Accel / Decel phase | 0 ~ 9 (10 Step) | |
| Set Temp. | -10℃ ~ +40℃ (1℃ increments) | |
| Ref. System | Non-CFC | |
| Noise Level | ≤60dB(A) | |
| 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 15,000 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 | 18 | |
| Power Supply | AC 230V ± 10%, 50-60Hz, 1Phase | |
| Power Consumption | 2.5KW | |
| Dimension(W x D x H) | 765 x 687 x 375 mm (H:915mm with open lid) | |
| Weight (without rotor) | 95kg | |
| Cat. No. | CS-C-T15R-MB | |
| For Eco(lower GWP) | CS-C-T15R-MB_R1 | |

## MAIN FEATURE




### 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.



### Biocontainment Accessory Package

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



### Wide Range of Application

Various rotor options for multiple purpose in different users.

Refrigeration & Fast Cooling

Various Tube Available

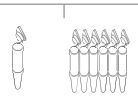
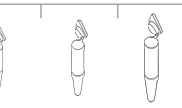
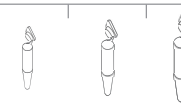
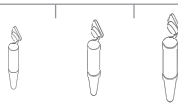
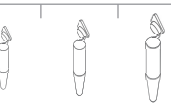
Accurate and stable temperature maintenance function

Silent Operation

Energy Saving

AC Induction motor (brushless)

## AVAILABLE ANGLE ROTORS

| Rotor | A480.2T | | A241.5T | | | A301.5T | | | AS301.5TX[1] | | | A481.5T | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| |  | |  | | |  | | |  | | |  | | |
| | Fixed Angle Rotor ∠45° 48 x 0.2ml Radius(mm) : 83.5 | | Fixde Angle rotor ∠ 45' 24 x 1.5ml Radius(mm) : 84.8 | | | Fixed Angle Rotor ∠45° 30 x 1.5ml Radius(mm) : 94.8 | | | Fixed Angle Rotor ∠45° 30 x 1.5ml Radius(mm) : 94.8 Aerosol-tight AXLLOCK | | | 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 | 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 | | F1.5A-0.2 | F1.5A-0.5 | |
| Number per rack / rotor | 48 | 6 | 24 | 24 | 24 | 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 | 6.5 | 8 | 11.1 |
| Max. height for use (mm) | - | - | 44 | 51 | 61 | 44 | 52 | 61 | 44 | 52 | 61 | In 51 Out 44 | In 62 Out 54 | In 70 Out 61 |
| RPM | 12,000 | 12,000 | 15,000 | 15,000 | 15,000 | 12,000 | 12,000 | 12,000 | 15,000 | 15,000 | 15,000 | 13,000 | 13,000 | 13,000 |
| Radius (mm) | 83.5 | 83.5 | 70.3 | 76.7 | 84.8 | 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 | 17,684 | 19,294 | 21,331 | 12,928 | 13,958 | 15,262 | 20,199 | 21,809 | 23,847 | In 13,283 Out 15,172 | In 14,492 Out 16,381 | In 16,022 Out 17,912 |

• 1) This rotor is not externally certified and has only been self-tested for bioseal sealing.

## AVAILABLE ANGLE ROTORS

| Rotor | A1215T | A1215TC | A650T | | A650TC | | A850T | |
|---|---|---|---|---|---|---|---|---|
| |  Fixed Angle Rotor ∠28° 12 x 15ml Radius(mm) : 97.1 |  Fixed Angle Rotor ∠25° 12 x 15ml Conical Radius(mm) : 100.9 |  Fixed Angle Rotor ∠30° 6 x 50ml Radius(mm) : 99.9 | |  Fixed Angle Rotor ∠25° 6 x 50ml Conical Radius(mm) : 95.7 | |  Fixed Angle Rotor ∠30° 8 x 50ml Radius(mm) : 103.4 | |
| Tube |  |  |  |  |  |  |  |  |
| Volume (ml) | 15(16) | 15 Conical | 15 Conical | 50 | 15 Conical | 50 Conical | 15 Conical | 50 |
| Adaptor / tube rack | | |  | |  | |  | |
| Item | | | F50A-15C | | F50CA-15C | | F50A-15C | |
| Number per rack / rotor | 12 | 12 | 6 | 6 | 6 | 6 | 8 | 8 |
| Adaptor bore (mm) | 18 | 17 | 17 | 29.5 | 17 | 30 | 17 | 29.5 |
| Max. height for use (mm) | 117 | 129 | 122 | 120 | 124 | 121 | 123 | 120 |
| RPM | 12,000 | 13,000 | 12,000 | 12,000 | 13,000 | 13,000 | 12,000 | 12,000 |
| Radius (mm) | 97.1 | 100.9 | 94.3 | 99.9 | 91.3 | 95.7 | 97.8 | 103.4 |
| RCF | 15,632 | 19,064 | 15,182 | 16,083 | 17,250 | 18,082 | 15,745 | 16,647 |

| Rotor | A850TC | | A685T | | | | AS685TX 2) | | | | A4250T |
|---|---|---|---|---|---|---|---|---|---|---|---|
| |  Fixde Angle rotor ∠ 25' 8 x 50ml Conical Radius(mm) : 100.7 | |  Fixed Angle Rotor ∠25° 6 x 85ml Radius(mm) : 99.8 | | | |  Fixed Angle Rotor ∠25° 6 x 85ml Radius(mm) : 99.8 Aerosol-tight AXLLOCK | | | |  Fixde Angle rotor ∠ 25' 4 x 250ml Radius(mm) : 128.3 |
| Tube |  |  |  |  |  |  |  |  |  |  |  |
| Volume (ml) | 15 Conical | 50 Conical | 15 Conical | 50 Conical | 50 | 85 | 15 Conical | 50 Conical | 50 | 85 | 250 |
| Adaptor / tube rack |  | |  |  |  | |  |  |  | | |
| Item | F50CA-15C | | 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 | 4 |
| Adaptor bore (mm) | 17.0 | 30.0 | 17 | 30 | 29 | 39 | 17 | 30 | 29 | 39 | 62.0 |
| Max. height for use (mm) | 124 | 121 | 123 | 122 | 118 | 118 | 123 | 122 | 118 | 118 | 123 |
| RPM | 13,700 | 13,700 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 8,000 |
| Radius (mm) | 96.5 | 100.7 | 90.7 | 94.8 | 95.3 | 99.8 | 90.7 | 94.8 | 95.3 | 99.8 | 128.3 |
| RCF | 20,249 | 21,131 | 14,602 | 15,262 | 15,343 | 16,067 | 14,602 | 15,262 | 15,343 | 16,067 | 9,180 |

• 2)This rotor is not externally certified and has only been self-tested for bioseal sealing.

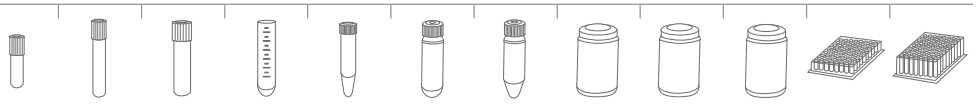
## AVAILABLE SWING ROTORS

| S4250TE | EB250 | EBS250[3)] | | | | | | | | 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<br>Max. RPM : 4,000<br>Radius(mm) : 182.5<br>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<br>Max. RPM : 4,500<br>Radius(mm) : 193.5<br>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

| S4750T | B750 | BS750 4) | | | | | | | B500 | BW750 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | | | | | | |  |  | |
| | S750T-5-24 | | S750T-10-19 | S750T-15-19 | S750T-15C-14 | S750T-50-7 | S750T-50C-5 | S750A-250 | | | |
| |  |  |  |  |  |  |  |  | | | |
| Swing Out Rotor<br>Max. RPM : 4,000<br>Radius(mm) : 205<br>Max. RCF : 3,667 |  | | | | | | | | | | |
| Capacity (ml) | 3 | 5 | 10 | 15 | 15 Conical | 50 | 50 Conical | 250 | 750 | 500 | MTP | DWP |
| Number per rack / rotor | 24/96 | | 19/76 | 19/76 | 14/56 | 7/28 | 5/20 | 1/4 | 1/4 | 1/4 | 4/16 | 1/4 |
| Adaptor bore (mm) | 13.2 | | 16 | 17.2 | 17 | 29.5 | 29.5 | 62.5 | - | 70 | - | - |
| Max. height for use (mm) | 136 | | 136 | 136 | 134 | 136 | 140 | 161 | 143 | 165 | - | - |
| 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) | 198 | | 198 | 198 | 196 | 198 | 202 | 205 | 205 | 213 | 170 | 170 |
| RCF | 3,542 | | 3,542 | 3,542 | 3,506 | 3,542 | 3,613 | 3,667 | 3,667 | 3,810 | 3,041 | 3,041 |

- 4) BS750 : certified for dynamic microbiological test(EN61010-020) by TUV NORD

| 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<br>Max. RPM : 5,000<br>Radius(mm) : 177<br>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 15R | 230V±10%, 50-60Hz, 1Phase, Eu Plug, 765x687x375mm, 95Kg | CS-C-T15R-MB |
| | VARISPIN 15R | 230V±10%, 50-60Hz, 1Phase, Eu Plug, 765x687x375mm, 95Kg, including Eco(lower GWP) refrigerant, EU Standard Plug | CS-C-T15R-MB_R1 |
| Angle Rotor | A480.2T | 0.2ml x 48 fixed angle rotor for PCR tubes (x 6 PCR strips) (Max 12,000RPM) | CS-C-T-10010 |
| | A241.5T | 1.5-2.0ml x 24 fixed angle rotor (≤15,000RPM in VARISPIN (L)15R/15, ≤12,000RPM in VARISPIN (L)12R/12) | CS-C-T-10130 |
| | A301.5T | 1.5-2.0ml x 30 fixed angle rotor (Max 12,000RPM) | CS-C-T-10020 |
| | AS301.5TX | 1.5-2.0ml x 30 fixed aerosol-tightness angle R (Axllock, ≤15,000RPM in V15R/15, ≤12,000RPM in V12R/12) | CS-C-T-10032 |
| | A481.5T | 1.5-2.0ml x 48 fixed angle(≤13,000RPM in VARISPIN (L)15R/15, ≤12,000RPM in VARISPIN (L)12R/12) | CS-C-T-10040 |
| | A1215T | 15ml x 12 fixed angle rotor (Max 12,000RPM) | CS-C-T-10050 |
| | A1215TC | 15ml x 12 fixed angle rotor for conical tubes (≤ 13,000RPM in V(L)15R/15, ≤12,000RPM in V(L)12R/12) | CS-C-T-10061 |
| | A650T | 50ml x 6 fixed angle rotor (Max 12,000RPM) | CS-C-T-10070 |
| | A650TC | 50ml x 6 fixed angle rotor for conical tubes (≤ 13,000RPM in V(L)15R/15, ≤ 12,000RPM in V(L)12R/12) | CS-C-T-10081 |
| | A850T | 50ml x 8 fixed angle rotor (Max 12,000RPM) | CS-C-T-10090 |
| | A850TC | 50ml x 8 fixed angle rotor for conical tubes(≤13,700RPM in V(L)15R) | CS-C-T-10141 |
| | A685T | 85ml x 6 fixed angle rotor (Max 12,000RPM) | CS-C-T-10100 |
| | AS685TX | 85ml x 6 fixed aerosol-tightness angle rotor with CRYSTE Axllock(Max 12,000RPM) | CS-C-T-10112 |
| | A4250T | 250ml x 4 fixed angle rotor (Max 8,000RPM) | CS-C-T-10120 |
| Swing Rotor | S4250TE | 250ml 4-wing swing rotor for rectangular/well plate buckets (Max 4,000RPM) | CS-C-T-20010 |
| | S4250T | 250ml 4-wing swing rotor for round buckets (≤ 4,500RPM in V(L)15R/12R, ≤ 4,000RPM in V(L)15/12) | CS-C-T-20020 |
| | S4750T | 750ml 4-wing swing rotor for round/well plate buckets (Max 4,000RPM) | CS-C-T-20030 |
| | S4100T | 100ml 4-wing swing rotor for round buckets (Max 5,000RPM in VARISPIN (L)15R/12R) | CS-C-T-20040 |

