



Laboratory Centrifuge

INTRODUCING **ZERO**
COMPROMISE MODELS

- BRUSHLESS
- ECONOMICAL





LED Display



LCD Display

Laboratory Centrifuges model R-8C Plus & R-8M Plus are suitable for routine sample analysis in Medical, Hospital, Pathology and heads and adaptors, those units are truly versatile.

Micro Centrifuges models R-12C Plus are ideal for growing routine application in biochemical and clinical labs, for Hematocrit, Corpuscle Percentage contents in blood, Serum analysis and precipitate separation etc.

Salient features:

- Automatic rotor identification, ensures operator safety
- Stainless Steel centrifuge Chamber, easy to clean
- Brushless Induction motor with variable frequency drive
- Microprocessor controller with digital display
- Stable speed output even under unstable voltage conditions
- Smooth & soft start
- Low sample temperature rise
- Inverter fault detection with auto shutdown
- 7 segment LED display of speed (R-8C Plus/R-12C Plus)
- Alphanumeric LCD display of speed & RCF (R-8M Plus)
- Selection of 3 acceleration & deceleration profiles (R-8M Plus)
- Digital countdown timer & continuous run
- Safety lid interlock to prevent lid opening during centrifugation
- Imbalance detection & centrifugation stop with display of error
- Dynamic brake for quick deceleration
- Motor overload protection
- Gas hinge to prevent door falling
- Emergency lid lock release
- Last set parameters recall (Useful for repetitive analysis)
- Wide variety of rotors & reduction adaptors

| Technical Data | | | |
|---------------------|-----|------------------------|-------------|
| Models | | R-8C Plus R-8M Plus | R-12C Plus |
| Max. Speed | rpm | 6000 | 16000 |
| Max. RCF | 'g' | 5070 | 21000 |
| Max. Capacity | ml | 400 | 40 |
| Digital timer range | Min | 0-99 | 0-15 |
| Noise | | ≤ 60 dB | ≤ 60 dB |
| WxDxH | mm | 380x470x300 | 380x470x300 |

Supply: 220-240Volts 50 Hz Single Phase.

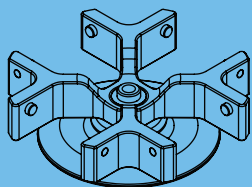
Nomenclature method of Rotors & accessories

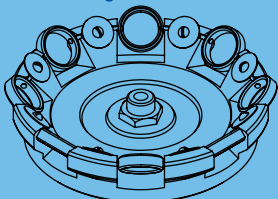
| Alphabets in beginning | Numbers in middle |
|------------------------|--|
| A= Fixed angle rotor | 1st numerical = Quantity per insert |
| S= Swing out rotor | 2nd numerical = Tube capacity (ml) |
| B= Bucket | |
| RA= Reduction adaptor | |
| Examples | |
| S 4-100 | (Swing out rotor, 4 tubes of 100ml capacity) |
| A 24-15 | (Angle rotor, 32 tubes of 15ml capacity) |
| B 9-5 | (Bucket, 9 tubes of 5ml capacity) |
| RA-161F | (Reduction adaptor for falcon) |

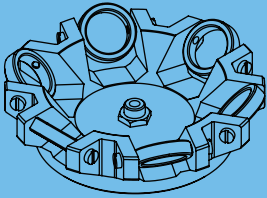
| Model Rotor | R-8M Plus/R-8C Plus | R-12C Plus |
|-------------|---------------------|------------|
| S 8-15 | Yes | |
| S 6-50 | Yes | |
| S 4-100 | Yes | |
| S 24-15 | Yes | |
| A 6-50 | Yes | |
| A 4-100 | Yes | |
| A 24-15 | Yes | |
| AR 24-75 HE | | Yes |
| AR 12-75 HE | | Yes |
| AR 12-2 | | Yes |
| AR 24-2 | | Yes |
| AR 8-5 | | Yes |
| P 4-8 | | Yes |

Swingout Rotors (except S 4-100) & Angle Rotors are supplied with suitable SS tubes as carriers

Swing Out Rotors for R-8C Plus & R-8M Plus

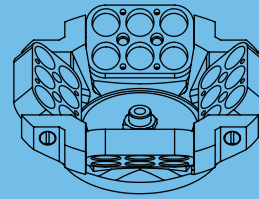
| Image of Tube | Metal Buckets suitable for Swing Out Rotor S 4-100 | | | | | | | | |
|--------------------|--|----------|----------|----------|----------|------------|-------------|-------------|-------------------|
| | B 100 | | | | | | B 9-5 | | |
| |  <p>Swing Out Rotor S 4-100 Max. Speed RPM 4000 Max RCF (g) 2500</p> | | | | | | | | |
| Image of Tube | | | | | | | | | |
| Tube Capacity (ml) | 100 | 50 | 50 | 30 | 15 | 15 | 10 | 6 | 5 |
| Type of Tube | Glass | Glass | Falcon® | Glass | Glass | Falcon® | Vacutainer® | Vacutainer® | Vacutainer® short |
| ∅ x L (mm) | 45.5 x 104 | 30 x 110 | 29 x 116 | 24 x 110 | 17 x 110 | 16.5 x 120 | 15.5 x 106 | 12.5 x 106 | 12.5 x 81 |
| Bucket No. | B 100 | B 100 | B 100 | B 100 | B 100 | B 100 | B 100 | B 100 | B 9-5 |
| Insert Cat No. | - | RA 157 | RA 161F | RA 158 | RA 166 | RA 160F | RA 168 | RA 167 | - |
| Tubes supplied | Yes | Yes | No | Yes | Yes | No | No | No | No |
| No of tubes/Insert | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 4 | 9 |
| No of tubes/rotor | 4 | 4 | 4 | 4 | 12 | 12 | 12 | 16 | 36 |

|  <p>Swing Out Rotor S 8-15 Max. Speed RPM 4500 Max RCF (g) 3440</p> | Image of Tube | | | | | | | |
|---|--------------------|----------|---------------|----------|-------------|---------|-------------------|---------|
| | Tube Capacity (ml) | 15 | 13 | 8 | 6 | 5 | 5 | 3 |
| | Type of Tube | Glass | Borosil Glass | Glass | Vacutainer® | Glass | Vacutainer® short | Glass |
| | ∅ x L (mm) | 17 x 110 | 15 x 125 | 12 x 100 | 12.5 x 106 | 12 x 75 | 12.5 x 81 | 10 x 75 |
| | Insert Cat No. | - | - | RA 154 | RA 163 | RA 153 | RA 162 | RA 152 |
| | Tubes supplied | Yes | No | Yes | No | Yes | No | Yes |
| | No of tubes/Insert | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | No of tubes/rotor | 8 | 8 | 8 | 8 | 8 | 8 | 8 |



Swing Out Rotor S 6-50
 Max. Speed RPM 4500
 Max RCF (g) 3530

| | | | | | |
|--------------------|----------|----------|------------|----------|-------------|
| Image of Tube | | | | | |
| Tube Capacity (ml) | 50 | 30 | 15 | 15 | 10 |
| Type of Tube | Glass | Glass | Falcon® | Glass | Vacutainer® |
| Ø x L (mm) | 30 x 110 | 24 x 110 | 16.5 x 120 | 17 x 110 | 15.5 x 106 |
| Insert Cat No. | – | RA 502 | RA 501F | RA 501 | RA 164 |
| Tubes supplied | Yes | Yes | No | Yes | No |
| No of tubes/Insert | 1 | 1 | 1 | 1 | 1 |
| No of tubes/rotor | 6 | 6 | 6 | 6 | 6 |

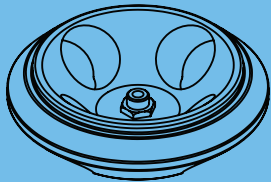


Swing Out Rotor S 24-15
 Max. Speed RPM 4500
 Max RCF (g) 3330

| | | | | | |
|----------|----------|-------------|---------|-------------------|---------|
| | | | | | |
| 15 | 8 | 6 | 5 | 5 | 3 |
| Glass | Glass | Vacutainer® | Glass | Vacutainer® short | Glass |
| 17 x 110 | 12 x 100 | 12.5 x 106 | 12 x 75 | 12.5 x 81 | 10 x 75 |
| – | RA 154 | RA 163 | RA 153 | RA 162 | RA 152 |
| Yes | Yes | No | Yes | No | Yes |
| 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 24 | 24 | 24 | 24 | 24 |

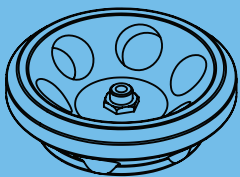
Angle Rotors for R-8C Plus & R-8M Plus

Angle Rotor A 4-100
 Max. Speed RPM 6000
 Max RCF (g) 4550



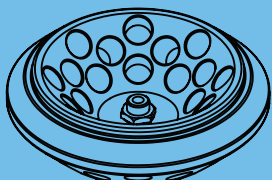
| | | | | | | | | |
|--------------------|------------|----------|----------|----------|----------|------------|-------------|-------------|
| Image of Tube | | | | | | | | |
| Tube Capacity (ml) | 100 | 50 | 50 | 15 | 15 | 15 | 10 | 6 |
| Type of Tube | Plastic | Falcon® | Glass | Glass | Glass | Falcon® | Vacutainer® | Vacutainer® |
| Ø x L (mm) | 45.5 x 104 | 29 x 116 | 30 x 110 | 17 x 110 | 17 x 110 | 16.5 x 120 | 15.5 x 106 | 12.5 x 106 |
| Insert Cat No. | – | RA 161F | RA 161 | RA 160 | RA 166 | RA 160F | RA 168 | RA 167 |
| Tubes supplied | Yes | No | Yes | Yes | Yes | No | No | No |
| No of tubes/Insert | 1 | 1 | 1 | 1 | 3 | 1 | 3 | 4 |
| No of tubes/rotor | 4 | 4 | 4 | 4 | 12 | 4 | 12 | 16 |

Angle Rotor A 6-50
 Max. Speed RPM 6000
 Max RCF (g) 4700



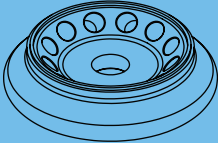




| | | | | | |
|--------------------|----------|----------|----------|------------|-------------|
| Image of Tube | | | | | |
| Tube Capacity (ml) | 50 | 30 | 15 | 15 | 10 |
| Type of Tube | Plastic | Glass | Glass | Falcon® | Vacutainer® |
| Ø x L (mm) | 30 x 100 | 24 x 110 | 17 x 110 | 16.5 x 120 | 15.5 x 106 |
| Insert Cat No. | – | RA 502 | RA 501 | RA 501F | RA 164 |
| Tubes supplied | Yes | Yes | Yes | No | No |
| No of tubes/Insert | 1 | 1 | 1 | 1 | 1 |
| No of tubes/rotor | 6 | 6 | 6 | 6 | 6 |

Angle Rotor A 24-15
 Max. Speed RPM 6000
 Max RCF (g) 5070

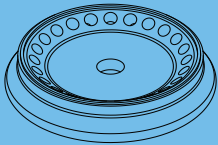





| | | | | | | |
|--------------------|----------|----------|-------------|---------|-------------------|---------|
| Image of Tube | | | | | | |
| Tube Capacity (ml) | 15 | 8 | 6 | 5 | 5 | 3 |
| Type of Tube | Plastic | Glass | Vacutainer® | Glass | Vacutainer® short | Glass |
| Ø x L (mm) | 17 x 102 | 24 x 100 | 12.5 x 106 | 12 x 75 | 12.5 x 81 | 10 x 75 |
| Insert Cat No. | – | RA 154 | RA 163 | RA 153 | RA 162 | RA 152 |
| Tubes supplied | Yes | Yes | No | Yes | No | Yes |
| No of tubes/Insert | 1 | 1 | 1 | 1 | 1 | 1 |
| No of tubes/rotor | 24 | 24 | 24 | 24 | 24 | 24 |

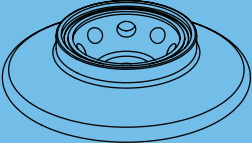



Rotors for R-12C Plus

| | | | | | |
|---|--------------------|---|---|---|---|
| Angle Rotor AR 12-2 Max speed RPM 16000 Max RCF (g) 16140  | Image of Tube |  |  |  |  |
| | Tube Capacity (ml) | 2 | 1 | 0.5 | 0.2 |
| | Type of Tube | Micro | Micro | Micro | Micro |
| | Insert Cat No. | No | RE 2-1 | RE 2-05 | RE 2-02 |
| | No of tubes/insert | 1 | 1 | 1 | 1 |
| | No of tubes/rotors | 12 | 12 | 12 | 12 |
| | Ø x L (mm) | 11 x 46 | 7.5 x 49 | 7.5 x 31 | 6 x 22 |
| | Tubes supplied | No | No | No | No |

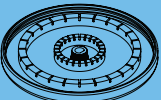
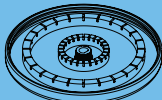
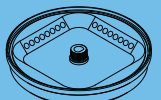



(Rotor supplied with all suitable inserts)

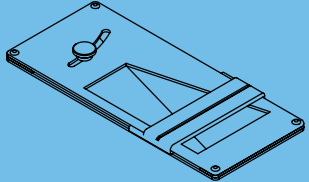
| | | | | |
|--|--------------------|---|---|---|
| Angle Rotor AR 24-2 Max speed RPM 15000 Max RCF (g) 21000  | Image of Tube |  |  |  |
| | Tube Capacity (ml) | 1.5 | 1 | 0.4 |
| | Type of Tube | Micro | Micro | Micro |
| | Insert Cat No. | No | RE 2-1 | RE 2-04 |
| | No of tubes/insert | 1 | 1 | 1 |
| | No of tubes/rotors | 12 | 12 | 12 |
| | Ø x L (mm) | 10.5 x 42 | 7.5 x 49 | 5.5 x 50 |
| | Tubes supplied | No | No | No |

(Rotor supplied with all suitable inserts)

| | | | | |
|--|--------------------|---|---|---|
| Angle Rotor AR 8-5 Max speed RPM 11850 Max RCF (g) 13500  | Image of Tube |  |  |  |
| | Tube Capacity (ml) | 5 | 4 | 2 |
| | Type of Tube | Micro | Micro | Micro |
| | Insert Cat No. | No | RE 5-4 | RE 5-2 |
| | No of tubes/insert | 1 | 1 | 1 |
| | No of tubes/rotors | 8 | 8 | 8 |
| | Ø x L (mm) | 16 x 59 | 10 x 75 | 10 x 47 |
| | Tubes supplied | No | No | No |

(Rotor supplied with all suitable inserts)

| Image of Angle Rotors |  |  |  |
|-----------------------|---|---|--|
| Model | AR 24-75 HE | AR 12-75 HE | P 4-8 |
| Max speed RPM | 12000 | 12000 | 15000 |
| Max RCF (g) | 15300 | 15300 | 21000 |
| Image of Tube |  |  |  |
| Tube Capacity (ml) | 1 | | 4 strips of 8 PCR |
| Type of Tube | Capillary | Capillary QBC-II Plus | PCR |
| No of tubes/rotors | 24 | 12 | 4 |
| Ø x L (mm) | 1 x 75 | | 6 x 78 |
| Tubes supplied | Yes | No | No |

| | |
|---|---------------|
| Reading Device RD 24-75  | |
| W x D x H | 127 x 84 x 18 |