

Dynamica



The VELOCITY Range

BENCH TOP CENTRIFUGES

Designed in Australia.

B U I L T
LAB TOUGH

B U I L T LAB TOUGH

Dynamica is the new benchmark for laboratory instrumentation. Utilizing Dynamica's extensive experience in marketing and manufacturing, the range of precision laboratory instrumentation is Built Lab Tough to withstand the demands of the modern laboratory environment, day after day, year after year without compromise.

Furthermore, Dynamica instrumentation is designed for versatility and flexibility to maximize performance efficiency in the contemporary and multifaceted laboratory environment.

The Dynamica range of bench-top centrifuges are characterized by quality and safety and are complemented by a wide array of convenience features, from the user friendly control pad with clear, bright LED display to the dual interlocking door mechanism to name a few. An extensive model range with accompanying accessories extend suitability to many laboratory applications.

We test our electrical products against the CE and safety standard. Dynamica products are independently tested by accredited test house and this is reinforced by comprehensive technical and manufacturing data.

*Dynamica supplies the innovation,
you supply the inspiration.*



VELOCITY 18R

Refrigerated Benchtop Centrifuge

The Velocity 18R delivers high capacity, refrigerated centrifugation with an impressive maximum speed of 18,000 RPM (27,070 x g) (with the fixed angle FA18 rotor) and all from the convenience of the bench

Quick Set and forget Rotor System

Screwing or bolting rotors to the drive shaft is a thing of the past. Likewise lost spanners and rotor over tightening. With the Velocity 18R simply place the rotor on the drive shaft and that's all. The auto lock and secure mechanism performs the rest. Once centrifugation is complete simply lift the rotor off the drive shaft. Quicker, easier, more efficient and safer.

Auto rotor recognition

Automatic rotor recognition and confirmation once centrifugation has commenced, including rotational speed calculation and optimum temperature control.

Furthermore new rotors can be easily loaded onto the on-board database as they are introduced.

Fast Acceleration and Deceleration

The innovative high torque, drive technology effortlessly accelerates even the heaviest rotors to terminal velocity quickly and efficiently. Even the heaviest rotors with a full load will achieve maximum velocity within a few minutes. Furthermore, 9 pre-set acceleration and 9 pre-set deceleration profiles ensure the best separation even for the most delicate density gradients

High imbalance tolerances

Innovative motor engineering and mounting including a flexible drive shaft allow for greater imbalance tolerances, so much so that samples can be balanced

simply with the naked eye. No more weighing just fill tubes or bottles to within 5mm of each other.

Powerful Refrigeration

A powerful non -CFC compressor cools the chamber quickly whilst maintaining the rotor at set temperature during centrifugation.

Furthermore, twin cooling fans - one each for the compressor and motor respectively - dissipate heat quickly to improve cooling efficiency and extend motor life.

Actual sample (rotor) temperature Measurement and Display

The temperature displayed on the LCD panel during centrifugation is that of the rotor (and hence samples) and not the temperature of the chamber nor the temperature at the sensor to allow for more precise, reproducible and efficient experimentation.

Safety is Paramount

The Velocity 18R offers many safety features in the unlikely event of an emergency such as:

Non-contact imbalance detection and shutdown based on the run profile for each rotor across its entire speed range rather than the inferior and conventional micro-switch detector.

- > Guard barrier
- > Dual lid electronic interlock
- > Auto-hinge for improved sealing and door opening
- > Over speed detection and shutdown
- > Motor overheat detection and shutdown

User friendly operation and information rich display

Parameters are quickly and effortlessly inputted through the uncomplicated touch pad interface and displayed on the brightly backlit and easy to read LCD panel.

The LCD panel concurrently displays all experimentation parameters including diagnostic information as it occurs. Furthermore, once centrifugation has commenced, a real time graphic profile of the centrifugation status is displayed.













Quiet Operation

Noise abating insulation in the console including lower noise fans combine to reduce the audible operating noise to ≤ 58 dB.

Liquid Seeping Prevention

A single continuous rubber cap with strong gasket, firmly seals the motor chamber opening and drive shaft to prevent liquid from seeping into the motor and electronic components. As additional back-up, a highly absorbent sponge positioned beneath the rubber cap soaks up any liquid or condensation which then evaporates during operation.

VELOCITY 18R ROTORS

| ROTOR TYPE | CAT. NO.# | | MATERIAL | MAX SPEED (RPM) | MAX RCF (XG) | TUBE VOLUME (ML) |
|--------------|-----------|---|---------------------|-----------------|--------------|---|
| Fixed Angle | FA18B |  | Aluminium | 18,000 | 24,990 | 1.5/2.0 |
| | | | | " | " | 0.5 |
| | | | | " | " | 0.2 |
| Fixed Angle | FA15A |  | Aluminium | 15,000 | 21,500 | 1.5 /2.0 |
| | | | | " | " | 0.5 |
| | | | | " | " | 0.2 |
| Fixed Angle | FA15P |  | Plastic | 15,000 | 18,800 | 1.5 /2.0 |
| | | | | " | " | 0.5 |
| | | | | " | " | 0.2 |
| Fixed Angle | FA12A |  | Aluminium | 12,000 | 14,100 | 0.2 |
| Fixed Angle | FA18A |  | Aluminium | 18,000 | 27,070 | 10 |
| Fixed Angle | FA15B |  | Aluminium | 15,000 | 21,800 | 50 |
| | | | | " | " | 15 |
| | | | | " | " | 15 |
| Fixed Angle | FA15C |  | Aluminium | 15,000 | 23,300 | 50 |
| | | | | " | " | 15 |
| | | | | " | " | 15 |
| Fixed Angle | FA15D |  | Aluminium | 15,000 | 20,900 | 80 |
| Fixed Angle | FA10B |  | Aluminium | 10,000 | 11,400 | 50 |
| | | | | " | " | 15 |
| Swing Bucket | SW5 |  | Aluminium Bucket | 4,800 | 4,170 | 250 |
| | | | | 4,800 | 4,170 | 5 |
| | | | | 4,800 | 4,170 | 7 |
| | | | | 4,800 | 4,170 | 10 |
| | | | | 3,000 | 1,630 | 10 |
| | | | | 3,000 | 1,630 | 15 |
| | | | | 4,800 | 4,170 | 15 |
| | | | | 4,800 | 4,170 | 15 |
| | | | | 4,800 | 4,170 | 15 |
| | | | | 4,800 | 4,170 | 50 |
| | | | | 4,800 | 3,990 | 50 |
| | | | | 4,800 | 4,170 | 50 |
| | | | | Swing Bucket | SW5MP |  |
| " | " | 96 Deep Well Plates | | | | |
| " | " | 1.5 /2.0 | | | | |
| " | " | 0.2 | | | | |
| Swing Bucket | SW4A |  | Aluminium | 4,000 | 2,900 | 15 |
| | | | | 4,000 | 2,860 | 50 |

| TUBE DESCRIPTION | TUBE DIMENSIONS(O X MM) | TUBE MATERIAL | CAPACITY | ADAPTOR | ROTOR AUTOCLAVABLE | ROTOR LID | |
|---------------------|--------------------------|---------------|-----------------|-----------|--------------------|---|-----|
| Standard micro-tube | 10.5 x 41 | PP | 18 x 1.5/2.0 ml | N/A | 121°C | Aluminium | |
| PCR single tube | 8 x 32 | PP | 18 x 0.5 ml | FA15.05 | | | |
| PCR single tube | 6 x 24 | PP | 18 x 0.2 ml | FA15.02 | | | |
| Standard micro-tube | 10.5 x 41 | PP | 24 x 1.5/2.0 ml | N/A | 121°C | Aluminium | |
| PCR single tube | 8 x 32 | PP | 24 x 0.5 ml | FA15.05 | | | |
| PCR single tube | 6 x 24 | PP | 25 x 0.2ml | FA15.02 | | | |
| Standard micro-tube | 10.5 x 41 | PP | 18 x 1.5/2.0 ml | N/A | No | N/A | |
| PCR single tube | 8 x 32 | PP | 18 x 0.5 ml | FA15.05 | | | |
| PCR single tube | 6 x 24 | PP | 18 x 0.2ml | FA15.02 | | | |
| PCR single or strip | 6 x 24 | PP | 48 x 0.2 ml | N/A | 121°C | Aluminium | |
| Round Bottom | 16 x 81 | PP | 8 x 10 ml | N/A | 121°C | Aluminium | |
| Round Bottom | 29 x 106 | PP/PC | 4 x 50 ml | N/A | 121°C | Aluminium | |
| Culture V Bottom | 17 x 120 | PP | 4 x 15 ml | FA15.15C | | | |
| Round Bottom | 16.5 x 113 | PP | 4 x 15 ml | FA15.15R | | | |
| Round Bottom | 29 x 104 | PC | 6 x 50 ml | N/A | 121°C | Aluminium | |
| Culture V Bottom | 17 x 120 | PP | 6 x 15 ml | FA15.15C | | | |
| Round Bottom | 16.5 x 113 | PP | 6 x 15 ml | FA15.15R | | | |
| Round Bottom | 38 x 106 | PC | 4 x 80 ml | N/A | 121°C | Aluminium | |
| Culture V Bottom | 29 x 115 | PP | 6 x 50 ml | N/A | 121°C | Aluminium | |
| Culture V Bottom | 17 x 120 | PP | 6 x 15 ml | FA10.15C | | | |
| Bottle | 61.6 x 135 | PP/PC | 4 x 250ml | N/A | | | |
| Blood collection | 12-13 x 75-78 | | 28 x 5ml | SW5.5B | 121°C | Plastic Caps with o-ring (Order Separately) | |
| Blood collection | 12-13 x 100 | | 28 x 7ml | SW5.7B | (buckets) | | |
| Blood collection | 16 x 100 | | 28 x 10ml | SW5.10B | | | |
| Round Bottom | 12 x 105 | Glass | 28 x 10ml | SW5.10G | | | |
| Round Bottom | 17 x 110 | Glass | 28 x 15ml | SW5.15G | | | |
| Round Bottom | 16.5 x 113 | PP | 16 x 15ml | SW5.15P* | | | |
| Culture V Bottom | 17 x 120 | PP | 12 x 15ml | SW5.15CA | | | |
| Culture V Bottom | 17 x 120 | PP | 16x 15ml | SW5.15CB* | | | |
| Round Bottom | 29 x 104 | PP | 4 x 50ml | SW5.50P | | | |
| Round Bottom | 35 x 100 | Glass | 4 x 50ml | SW5.50G | | | |
| Culture V Bottom | 29 x 115 | PP | 4x 50ml | SW5.50C | | | |
| PCR / Culture | 128W x 86L x 14H | PP/PC | 2 x Plates | N/A | 121°C | | N/A |
| PCR / Culture | 128W x 86L x 55H | PP/PC | 2 x Plates | N/A | (buckets) | | |
| Standard micro-tube | 10.8 x 40.5 | PP | 48x 1.5/2.0 ml | SW5MP.15 | | | |
| PCR single or strip | | PP | 192x 0.2 ml | SW5MP.02 | | | |
| Culture V Bottom | 17 x 120 | PP | 24 x 15ml | SW4A.15C | 121°C | N/A | |
| Culture V Bottom | 29 x 115 | PP | 8 x 50ml | SW4A.50C | (buckets) | | |

VELOCITY 18R SPECIFICATIONS

| MODEL | V18R |
|--------------------------------|---|
| Maximum Speed | 18,000 RPM (FA18A rotor) |
| Maximum RCF | 27,070 x g (FA18A rotor) |
| Maximum Capacity | 1,000 ml (4 x 250 ml) |
| Drive Mechanism | Brushless Induction |
| Control | Microprocessor based |
| Speed Range | 300-18,000 RPM (100 RPM increments) |
| Speed Accuracy | ±20 RPM |
| Speed / RCF Conversion | Yes |
| Timer | 1 min - 99 Hrs 59 mins plus HOLD function |
| Display | Backlit LCD |
| Operating Noise | <58dB (A) |
| Temperature Range | -20°C to +40°C |
| Temperature Accuracy | ±2°C |
| Memory | 9 Programs |
| Acceleration/Deceleration | 9 stages / 9 stages |
| Automatic Rotor Identification | Yes |
| Imbalance Detection | Yes |
| Dimensions (L x D x H) | 730 x 610 x 380 mm |
| Weight (Net) | 100 Kg |
| Power Supply | Single Phase AC 220V - 240V, 50/60Hz, 10A |



VELOCITY 14 / 14R

Benchtop Centrifuges

The Velocity 14 / 14R centrifuges set a new benchmark in versatility and compactness. The clever design results in a compact footprint yet generous capacity which not only frees up precious bench space but also provides the flexibility to alternate from micro-volume centrifugation to medium-volume centrifugation and all at an impressive maximum speed of 14,000 RPM / 20,290xg (with the FA15C rotor). Furthermore the V14R incorporates powerful and efficient refrigeration whilst the absence of refrigeration in the Velocity 14 further reduces its footprint by at least 50% compared to that of the Velocity 14R.

Smart, Compact, 2-in-1 Design

The versatile design of the Velocity 14 / 14R centrifuges offers the best of both worlds from the perspective of micro-volume and medium-volume centrifugation. The FA15A rotor is sufficiently fast and yet accommodating for up to 24 x 1.5/2 ml tubes with a terminal velocity of 14,000 RPM (18,726 x g) whilst the FA15C rotor has sufficient capacity for up to 6 x 50 ml tubes reaching an impressive terminal velocity of 14,000 RPM (20,290 x g) in V14R. The new SW4C Swing Bucket Rotor further expands the flexibility of the Velocity 14/14R centrifuges to incorporate a wide range of new applications.

Quick Set and forget Rotor System

Screwing or bolting rotors to the drive shaft is a thing of the past. Likewise lost spanners and rotor over tightening. With the Velocity 14 / 14R simply place the rotor on the drive shaft and that's all. The auto lock and secure mechanism performs the rest. Once centrifugation is complete simply lift the rotor off the drive shaft. Quicker, easier, more efficient and safer.

Auto rotor recognition.

Microchip technology allows for automatic recognition of rotor and confirmation once centrifugation has commenced, including rotational speed calculation and optimum

temperature control.

Furthermore new rotors can be easily loaded onto the on-board database as they are introduced.

Fast Acceleration and Deceleration.

The innovative high torque, drive technology effortlessly accelerates even the heaviest rotors to terminal velocity quickly and efficiently. Even the heaviest rotors with a full load will achieve maximum velocity within a few minutes. Furthermore, 9 pre-set acceleration and 9 pre-set deceleration profiles ensure the right conditions are set for the most precious of samples including density gradients.

High imbalance tolerances

Innovative motor engineering and mounting including a flexible drive shaft allow for greater imbalance tolerances, so much so that samples can be balanced simply with the naked eye. No more weighing, just fill tubes or bottles to within 5mm of each other.

Powerful Refrigeration (Velocity 14R model only)

A powerful non -CFC compressor cools the chamber quickly whilst maintaining the rotor at set temperature during centrifugation.

Furthermore, twin cooling fans - one each for the compressor and motor respectively - dissipate heat quickly to improve cooling efficiency and extend motor life.

Actual sample (rotor) temperature Measurement and Display (Velocity 14R only)

The temperature displayed on the LCD panel during centrifugation is that of the rotor (and hence samples) and not the temperature of the chamber nor the temperature at the sensor to allow for more precise, reproducible and efficient experimentation.

Safety is Paramount

The Velocity 14 / 14R offers many safety features in the unlikely event of an emergency such as:

Non-contact imbalance detection and shutdown based on the run profile for each rotor across its entire speed range rather than the inferior and conventional micro-switch detector.

Guard barrier

Dual lid electronic interlock

Auto-hinge for improved sealing and door opening

Over speed detection and shutdown

Motor overheat detection and shutdown

User friendly operation and information rich display

Parameters are quickly and effortlessly inputted through the uncomplicated touch pad interface and displayed on the brightly backlit and easy to read LCD panel.

The LCD panel concurrently displays all experimentation parameters including diagnostic information as it occurs. Furthermore, once centrifugation has commenced, a real time graphic profile of the centrifugation status is displayed.

Quiet Operation

Noise abating insulation in the console including lower noise fans combine to reduce the audible operating noise to ≤ 53 dB (≤ 58 dB for V14R).

Liquid Seeping Prevention

A single continuous rubber cap with strong gasket, firmly seals the motor chamber opening and drive shaft to prevent liquid from seeping into the motor and electronic components. As additional back-up, a highly absorbent sponge positioned beneath the rubber cap soaks up any liquid or condensation which then evaporates during operation.

VELOCITY 14R & 14 ROTORS

| ROTOR TYPE | CAT. NO.# | MATERIAL | V14R (V14) MAX SPEED (RPM) | V14R (V14) MAX RCF (XG) | TUBE VOLUME (ML) |
|----------------------------|-----------|-----------|-------------------------------|----------------------------|------------------------|
| Fixed Angle | FA15A | Aluminium | 14,000 (14,000) " " | 18,728 (18,728) " " | 1.5 /2.0 0.5 0.2 |
| Fixed Angle | FA12A | Aluminium | 12,000 (12,000) | 12,290 (12,290) | 0.2 |
| Fixed Angle | FA18A | Aluminium | 14,000 (14,000) | 16,200 (16,200) | 10 |
| Fixed Angle | FA15B | Aluminium | 14,000 (12,000) " " | 18,990 (13,950) " " | 50 15 15 |
| Fixed Angle | FA15C | Aluminium | 14,000 (12,000) " " | 20,290 (14,900) " " | 50 15 15 |
| Fixed Angle NEW | FA10E | Aluminium | 10,000 (10,000) " " | 10,600 (10,600) " " | 50 15 15 |
| Swing Bucket NEW | SW4C | Aluminium | 4,000 (4,000) | 1,780 (1,780) | 7 |

PP Polypropylene
 PA Polyallomer
 PC Polycarbonate

| TUBE DESCRIPTION | TUBE DIMENSIONS(O X MM) | TUBE MATERIAL | CAPACITY | ADAPTOR | ROTOR AUTOCLAVABLE | ROTOR LID |
|---------------------|--------------------------|---------------|-----------------|----------|--------------------|-----------|
| Standard micro-tube | 10.5 x 41 | PP | 24 x 1.5/2.0 ml | N/A | 121°C | Aluminum |
| PCR single tube | 8 x 32 | PP | 24 x 0.5 ml | FA15A.05 | | |
| PCR single tube | 6 x 24 | PP | 25 x 0.2ml | FA15A.02 | | |
| PCR single or strip | 6 x 24 | PP | 48 x 0.2 ml | N/A | 121°C | Aluminum |
| Round Bottom | 16 x 81 | PP | 8 x 10 ml | N/A | 121°C | Aluminum |
| Round Bottom | 29 x 106 | PP | 4 x 50 ml | N/A | 121°C | Aluminum |
| Culture V Bottom | 17 x 120 | PP | 4 x 15 ml | FA15.15C | | |
| Round Bottom | 16.5 x 113 | PP | 4 x 15 ml | FA15.15R | | |
| Round Bottom | 29 x 106 | PP | 6 x 50 ml | N/A | 121°C | Aluminium |
| Culture V Bottom | 17 x 120 | PP | 6 x 15 ml | FA15.15C | | |
| Round Bottom | 16.5 x 113 | PP | 6 x 15 ml | FA15.15R | | |
| Culture V Bottom | 29 x 115 | PP | 4 x 50 ml | N/A | 121°C | Aluminium |
| Culture V Bottom | 17 x 120 | PP | 4 x 15 ml | FA10.15C | | |
| Round Bottom | 16.5 x 113 | PP | 4 x 15 ml | N/A | | |
| Blood collection | 12 x 106 | | 4 x 7 ml | Included | 121°C | Aluminium |

VELOCITY 14R & 14 SPECIFICATIONS

| MODEL | V14R | V14 |
|--------------------------------|---|------------------------------------|
| Maximum Speed | 14,000 RPM (FA15C rotor) | 14,000 RPM (FA15A rotor) |
| Maximum RCF | 20,290 x g (FA15C rotor) | 18,728 x g (FA15A rotor) |
| Maximum Capacity | 300 ml (6 x 50 ml) | |
| Drive Mechanism | Brushless Induction | |
| Control | Microprocessor based | |
| Speed Range | 300-14,000 RPM (100 RPM increments) | |
| Speed Accuracy | ±20 RPM | |
| Speed / RCF Conversion | Yes | |
| Timer | 1 min - 99 Hrs 59 mins plus HOLD function | |
| Display | Backlit LCD | |
| Operating Noise | <58dB (A) | <53dB (A) |
| Temperature Range | -20°C to +40°C | - |
| Temperature Accuracy | ±2°C | - |
| Acceleration/Deceleration | 9 stages / 9 stages | |
| Automatic Rotor Identification | Yes | |
| Imbalance Detection | Yes | |
| Dimensions (L x D x H) | 560 x 500 x 380 mm | 340 x 490 x 380 mm |
| Weight (Net) | 60 Kg | 40 Kg |
| Power Supply | Single Phase AC 220V ±2V, 50Hz, 10A | Single Phase AC 220V ±2V, 50Hz, 8A |

NEW

Dynamica



VELOCITY 10R

Refrigerated Benchtop Centrifuge

The Velocity 10R takes the helm as Dynamica's highest capacity centrifuge – up to 3 litres with the SW3A rotor. Powerful refrigeration combined with an exceptional maximum speed of 10,000 RPM (12,740 x g with the FA10D rotor) offer the versatility and convenience to manage a wide range of larger scale applications and all in a footprint sufficiently compact to fit on a bench.

Auto rotor recognition

Microchip technology allows for automatic rotor recognition and confirmation once centrifugation has commenced, including rotational speed calculation and optimum temperature control.

Furthermore new rotors can be easily loaded onto the on-board database as they are introduced.

Fast Acceleration and Deceleration

The innovative, heavy duty, frequency conversion motor is purposely designed to handle the heaviest of rotors with abundant power output for smooth, quick and efficient acceleration to terminal velocity under fully laden conditions. Furthermore, 9 pre-set acceleration and 9 pre-set deceleration profiles ensure the right conditions are met for the most precious and vibration sensitive samples.

Powerful Refrigeration

A powerful non -CFC compressor cools the chamber quickly whilst maintaining the rotor at set temperature during centrifugation.

Furthermore, twin cooling fans - one each for the compressor and motor respectively - dissipate heat quickly to improve cooling efficiency and extend motor life.

Actual sample (rotor) temperature Measurement and Display

The temperature displayed on the LCD panel during centrifugation is that of the

rotor (and hence samples) and neither the temperature of the chamber nor the temperature at the sensor. This allows for more precise, reproducible and efficient experimentation.

Safety is Paramount

The Velocity 10R offers many safety features in the unlikely event of an emergency such as:

Non-contact imbalance detection and shutdown based on the run profile for each rotor across its entire speed range rather than the inferior and conventional micro-switch detector.

Guard barrier

Dual lid electronic interlock

Auto-hinge for improved sealing and door opening

Over speed detection and shutdown

Motor overheat detection and shutdown

User friendly operation and information rich display

Parameters are quickly and effortlessly inputted through the ergonomic touch pad interface and displayed on the brightly backlit and easy to read LCD panel.

The LCD panel concurrently displays all experimentation parameters including diagnostic information as it occurs. Furthermore, once centrifugation has commenced, a real time graphic profile of the centrifugation status is displayed.

Quiet Operation

Noise abating insulation in the console including lower noise fans combine to reduce the audible operating noise to ≤ 62 dB - quite impressive for a large capacity, refrigerated centrifuge such as the Velocity 10R.

Liquid Seeping Prevention

A single continuous rubber cap with

strong gasket, firmly seals the motor chamber opening and drive shaft to prevent liquid from seeping into the motor and electronic components. As additional back-up, a highly absorbent sponge positioned beneath the rubber cap soaks up any liquid or condensation which then evaporates during operation.

VELOCITY 10R ROTORS

| ROTOR TYPE | CAT. NO.# | | MATERIAL | MAX SPEED (RPM) | MAX RCF (XG) | TUBE VOLUME (ML) |
|--------------|-----------|---|-----------|-----------------|--------------|------------------|
| Fixed Angle | FA8B |  | Aluminium | 8,000 | 9,180 | 50 |
| | | | | 8,000 | 9,000 | 15 |
| | | | | 8,000 | 8,900 | 15 |
| Fixed Angle | FA8C |  | Aluminium | 8,000 | 9,560 | 50 |
| | | | | 8,000 | 9,200 | 15 |
| | | | | 8,000 | 9,350 | 15 |
| Fixed Angle | FA10D |  | Aluminium | 10,000 | 12,740 | 80 |
| | | | | 10,000 | 11,840 | 50 |
| | | | | 10,000 | 12,070 | 50 |
| Swing Bucket | SW3A |  | Aluminium | 3,200 | 2,500 | 750 |
| Swing Bucket | SW4B |  | Aluminium | 4,000 | 3,500 | 250 + 50 |
| | | | | 4,000 | 3,500 | 3 |
| | | | | 4,000 | 3,500 | 5 |
| | | | | 4,000 | 3,500 | 7 |
| | | | | 4,000 | 3,450 | 10 |
| | | | | 4,000 | 3,510 | 15 |
| | | | | 4,000 | 3,500 | 50 |
| | | | | 4,000 | 3,500 | 50 |

PP Polypropylene

PA Polyallomer

PC Polycarbonate





* Plastic seal caps cannot be used with these adaptors

| TUBE DESCRIPTION | TUBE DIMENSIONS(O X MM) | TUBE MATERIAL | CAPACITY | ADAPTOR | ROTOR AUTOCLAVABLE | ROTOR LID |
|---------------------------|--------------------------|---------------|------------------------|------------|--------------------|---|
| Culture V Bottom | 29 x 115 | PP | 10 x 50 ml | N/A | 121°C | Aluminum |
| Culture V Bottom | 17 x 120 | PP | 10 x 15 ml | FA8B.15C | | |
| Round Bottom | 16.5 x 113 | PP | 10 x 15ml | FA8B.15P | | |
| Round Bottom | 29 x 106 | PP | 12 x 50 ml | - | 121°C | Aluminum |
| Culture V Bottom | 17 x 120 | PP | 12 x 15 ml | FA8C.15C | | |
| Round Bottom | 16.5 x 113 | PP | 12 x 15 ml | FA8C.15P | | |
| Round Bottom | 38 x 106 | PP | 6 x 80 ml | - | 121°C | Aluminum |
| Culture V Bottom | 29 x 115 | PP | 6 x 50 ml | FA10D.50C | | |
| Round Bottom | 29 x 106 | PP | 6 x 50 ml | FA10D.50P | | |
| Bottle | 97 x 157 | PP/PC | 4 x 750 ml | N/A | 121°C (buckets) | N/A |
| Bottle + Culture V Bottom | 61.6 x 135 & 30 x 116 | PP/PC | 2 x 250 ml + 2 x 50 ml | SW4B.250P | 121°C (buckets) | Plastic Caps with o-ring (Order Separately) |
| Blood Collection | 12 x 81 | | 120 x 3 ml | SW4B.3B | | |
| Blood Collection | 12.5 x 106 | | 120 x 5 ml | SW4B.5B | | |
| Blood Collection | 12.5 x 106 | | 120 x 7 ml | SW4B.5B | | |
| Blood Collection | 12.5 x 106 | | 120 x 10 ml | SW4B.10B | | |
| Culture V Bottom | 17 x 120 | PP | 64 x 15 ml | SW4B.15C | | |
| Culture V Bottom | 29 x 115 | PP | 20 x 50 ml | SW4B.50CB | | |
| Culture V Bottom | 29 x 115 | PP | 32 x 50 ml | SW4B.50CA* | | |



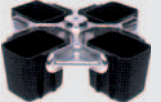



VELOCITY 10R SPECIFICATIONS

| MODEL | V10R |
|--------------------------------|--|
| Maximum speed | 10,000 RPM (FA10D) |
| Maximum RCF | 12,740 x g (FA10D rotor) |
| Maximum capacity | 3,000 ml (4 x 750ml) |
| Drive Mechanism | Frequency conversion motor |
| Control | Microprocessor based |
| Speed Range | 300- 10,000 RPM (100 RPM increments) |
| Speed Accuracy | ±20 RPM |
| Speed/ RCF conversion | Yes |
| Timer | 1 min- 99 Hrs 59 mins plus HOLD function |
| Display | Backlit LCD |
| Operating Noise | ≤62 dB (A) |
| Temperature range | -20°C to 40°C |
| Temperature accuracy | ±2°C |
| Memory | 9 programs |
| Acceleration | 9 stages / 9 stages |
| Automatic Rotor Identification | Yes |
| Imbalance Detection | Yes |
| Dimensions (L x D x H) | 876 x 695 x 460 mm |
| Weight (Net) | 160 Kg |
| Power requirements | Single phase 200v – 240V, 50Hz / 60Hz, 15A |

ORDERING INFORMATION

| PRODUCT | Cat. No.# | Components | |
|---|-----------|--|--|
| Velocity 18R Refrigerated Centrifuge | V18R-2 | Main Unit Spanner set and nuts Spare Fuses Spirit Level Silicon Grease Rotor rest pad Instruction Manual | |
| Velocity 14R Refrigerated Centrifuge | V14R-2 | Main Unit Spanner set and nuts Spare Fuses Spirit Level Silicon Grease Rotor rest pad Instruction Manual | |
| Velocity 14 Centrifuge | V14-2 | Main Unit Spanner set and nuts Spare Fuses Spirit Level Silicon Grease Rotor rest pad Instruction Manual | |
| Velocity 10R Refrigerated Centrifuge | V10R-2 | Main Unit Spanner set and nuts Spare Fuses Spirit Level Silicon Grease Rotor rest pad Instruction Manual | |
|  FA18A Fixed angle aluminium rotor | FA18A | Rotor Lubricant Aluminium lid Spare rubber o-rings Manual | V18R V14R V14 V10R |
|  FA18B Fixed angle aluminium rotor | FA18B | Rotor Lubricant Aluminium lid Spare rubber o-rings Manual | V18R V14R V14 V10R |
| adaptors for 0.2 ml PCR tubes / strips | FA15.02 | 24 x adaptors | V18R V14R V14 V10R |
| adaptors for 0.5 ml PCR tubes | FA15.02 | 24 x adaptors | V18R V14R V14 V10R |
|  FA15A Fixed angle aluminium rotor | FA15A | Velocity Rotor Aluminium Biosafety lid Spare rubber o-rings Lubricant Manual | V18R V14R V14 V10R |
| Adaptors for 0.2 ml PCR tubes / strips | FA15.02 | 24 x adaptors | V18R V14R V14 V10R |
| Adaptors for 0.5 ml PCR tubes | FA15.05 | 24 x adaptors | V18R V14R V14 V10R |
|  FA15P Fixed angle aluminium rotor | FA15P | Rotor Lubricant Manual | V18R V14R V14 V10R |
| Adaptors for 0.2 ml PCR tubes / strips | FA15.02 | 24 x adaptors | V18R V14R V14 V10R |
| Adaptors for 0.5 ml PCR tubes | FA15.05 | 24 x adaptors | V18R V14R V14 V10R |

| PRODUCT | Cat. No.# | Components | | | |
|--|---------------------------------|--|---|------|--|
|  FA15B Fixed Angle Aluminium Rotor Adaptors for 15 ml round bottom tubes Adaptors for 15 ml Culture tubes | FA15B FA15.15R FA15.15C | Rotor Lubricant Aluminium Biosafety lid Spare rubber o-rings Manual 4 x adaptors 4 x adaptors | V18R V14R V14 | V10R | |
|  FA15C Fixed Angle Aluminium Rotor Adaptors for 15 ml round bottom tubes Adaptors for 15 ml Culture tubes | FA15C FA15.15R FA15.15C | Rotor Lubricant Aluminium Biosafety lid Spare rubber o-rings 4 x adaptors 4 x adaptors | V18R V14R V14 | V10R | |
|  FA15D Fixed Angle Aluminium Rotor FA12A Fixed Angle Aluminium Rotor | FA15D FA12A | Rotor Lubricant Aluminium lid Spare rubber o-rings Manual Rotor Lubricant Aluminium lid Spare rubber o-rings Manual | V18R V14R V14 | V10R | |
|  FA10B Fixed Angle Aluminium Rotor Adaptors for 15 ml Culture tubes | FA10B FA10.15C | Rotor Lubricant Aluminium lid Spare rubber o-rings Manual 6 x adaptors | V18R V14R V14 | V10R | |
|  FA10D Fixed Angle Aluminium Rotor Adaptors for 50 ml Culture tubes Adaptors for 50 ml round bottom tubes | FA10D FA10D.50C FA10D.50P | Rotor Lubricant Aluminium lid Spare rubber o-rings Manual 6 x adaptors 6 x adaptors | V18R V14R V14 V10R | | |
|  FA10E Fixed Angle Aluminium Rotor Adaptors for 15 ml Culture tubes | FA10E FA10.15C | Rotor Lubricant Aluminium lid Spare rubber o-rings Manual 4 x adaptors | V18R V14R V14 | V10R | |
|  FA8B Fixed Angle Aluminium Rotor Adaptors for 15 ml Culture tubes Adaptors for 15 ml round bottom tubes | FA8B FA8B.15C FA8B.15P | Rotor Lubricant Aluminium lid Spare rubber o-rings Manual 10 x adaptors 10 x adaptors | V18R V14R V14 V10R | | |
|  FA8C Fixed Angle Aluminium Rotor adaptors for 15 ml Culture tubes Adaptors for 15 ml round bottom tubes | FA8C FA8C.15C FA8C.15P | Rotor Lubricant Aluminium lid Spare rubber o-rings Manual 12 x adaptors 12 x adaptors | V18R V14R V14 V10R | | |

| PRODUCT | Cat. No.# | Components | |
|--|------------|--|------|
|  SW5 Swing Bucket Aluminium Rotor | SW5 | Rotor 4 x Aluminium Round Buckets Lubricant Manual | |
| Adaptors for 5 ml blood collection tubes | SW5.5B | 4 x adaptors | |
| Adaptors for 7 ml blood collection tubes | SW5.7B | 4 x adaptors | |
| Adaptors for 10 ml blood collection tubes | SW5.10B | 4 x adaptors | |
| Adaptors for 10 ml round bottom glass tubes | SW5.10G | 4 x adaptors | |
| Adaptors for 15 ml round bottom glass tubes | SW5.15G | 4 x adaptors | |
| Adaptors for 15 ml round bottom PP tubes | SW5.15P* | 4 x adaptors | |
| Adaptors for 15 ml culture tubes | SW5.15CA | 4 x adaptors | |
| Adaptors for 15 ml culture tubes | SW5.15CB* | 4 x adaptors | |
| Adaptors for 50 ml round bottom glass tubes | SW5.50G | 4 x adaptors | V18R |
| Adaptors for 50 ml round bottom PP tubes | SW5.50P | 4 x adaptors | V14R |
| Adaptors for 50 ml culture tubes | SW5.50C | 4 x adaptors | V14 |
| Plastic Seal Caps | SW5.SC | 4 x clear caps with rubber o-rings | V10R |
| * not suitable with plastic caps | | | |
|  SW5MP Swing Bucket Aluminium Rotor | SW5MP | Rotor 2 x Aluminium Rectangular Buckets Lubricant Manual | V18R |
| Adaptors for 1.5 ml micro tubes | SW5MP.15 | 2 x adaptors | V14R |
| Adaptors for 0.2 ml PCR tubes | SW5MP.02 | 2 x adaptors | V14 |
|  SW4A Swing Bucket Aluminium Rotor | SW4A | Rotor Lubricant 4 x Aluminium Rectangular Buckets Manual | V18R |
| Adaptors for 15 ml culture tubes | SW4A.15C | 4 x adaptors | V14R |
| Adaptors for 50 ml culture tubes | SW4A.50C | 4 x adaptors | V14 |
|  SW4B Swing Bucket Aluminium Rotor | SW4B | Rotor Lubricant 4 x Aluminium Rectangular Buckets Spare rubber o-rings Manual Rotor lock screw 4 x Shield caps | |
| Adaptors for 250 ml bottles plus 50 ml culture tubes | SW4B.250P | 4 x adaptors | |
| Adaptors for 3 ml blood collection tubes | SW4B.3B | 4 x adaptors | |
| Adaptors for 5 ml blood collection tubes | SW4B.5B | 4 x adaptors | |
| Adaptors for 7 ml blood collection tubes | SW4B.5B | 4 x adaptors | |
| Adaptors for 10 ml blood collection tubes | SW4B.10B | 4 x adaptors | |
| Adaptors for 15 ml culture tubes | SW4B.15C | 4 x adaptors | V18R |
| Adaptors for 50 ml culture tubes | SW4B.50CB | 4 x adaptors | V14R |
| Adaptors for 50 ml culture tubes | SW4B.50CA* | 4 x adaptors | V14 |
| *not suitable with plastic caps | | | |
|  SW4C Swing Bucket Aluminium Rotor | SW4C | Rotor 4 x Aluminium Rectangular Buckets Lubricant Manual 4 x adaptors | V18R |
|  SW3A Swing Bucket Aluminium Rotor | SW3A | Rotor 4 x Aluminium Round Buckets Lubricant Manual | V14R |
| | | | V14 |
| | | | V10R |

6 μ Micro Fuge

- Microtubes Rotor and Tube-strips Rotor Exchangeable
- Spins 8 Microtubes 1.5 - 2.2 ml and 2 x 8 well Tube-strips
- Rotors can be installed in a single motion without tools
- Compact personal centrifuge fits comfortably in the workspace
- User-friendly advanced design
- Long lasting and high quality



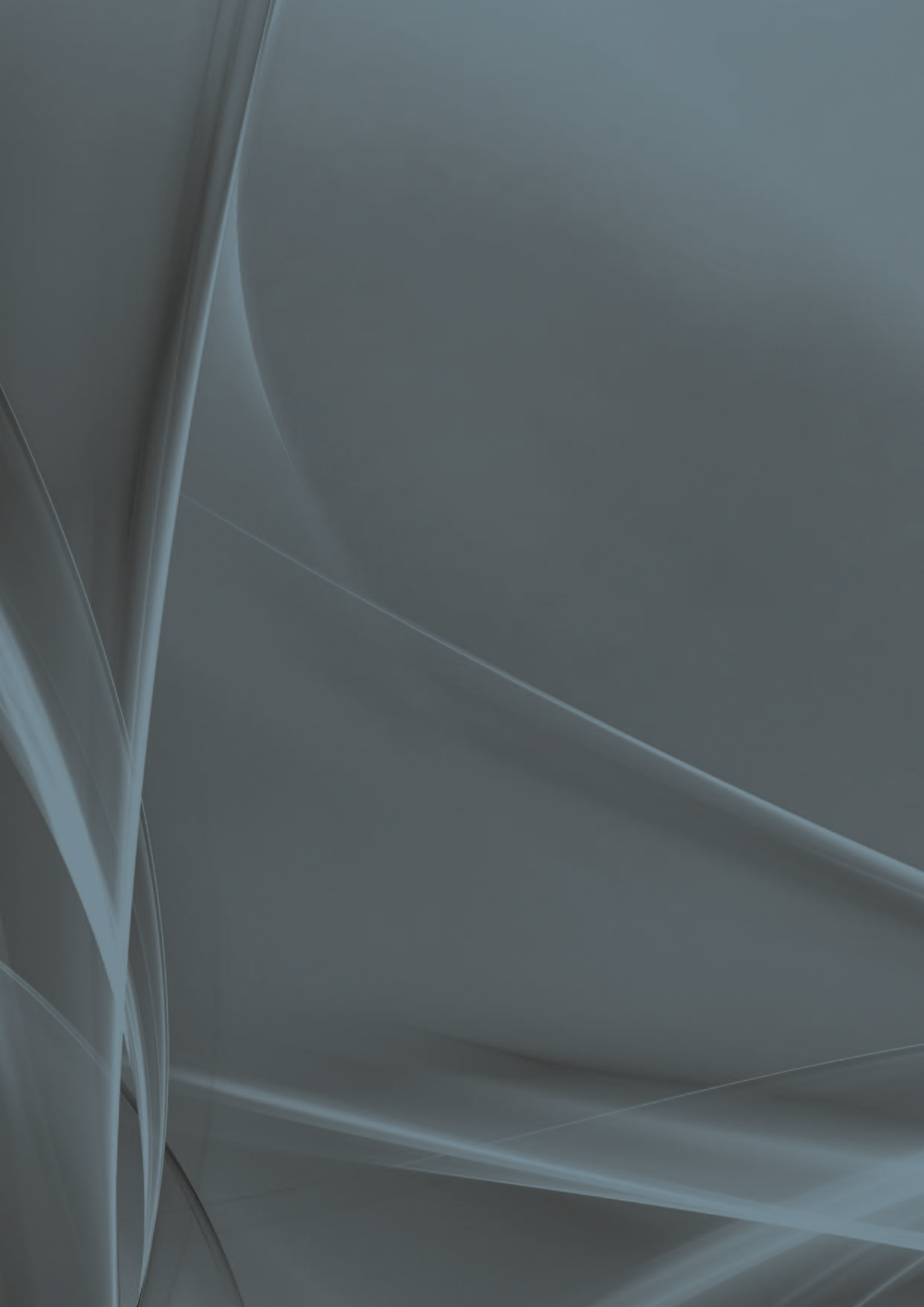
| TECHNICAL SPECIFICATIONS | |
|---------------------------|--|
| Rotor | Microtubes Rotor MA-1 Tube-strips Rotor PA-1 |
| Maximum Speed | 6,000 RPM (+/-20%) 6,200 RPM (+/-20%) |
| Maximum RCF | 2,910 x g 2,690 x g |
| Maximum Volume | 1.5 (2.2) ml x 8 Tubes 0.2 ml x 8 tubes connected x 2 lines |
| Power Required | AC 230V, 1A, 50/60 Hz (CE Marked) |
| Fuse | 250V, 0.5A |
| Dimensions (W x D x H) mm | 155 x 175 x 125 |
| Speed Control | Automatic / Constant Speed |
| Drive System | Direct Drive / Vibration Insulated |
| Brake | Dynamic Braking |
| Acceleration Time | Within 5 seconds up to 90% of rated speed |
| Deceleration Time | Within 15 seconds (Lid Closed) Within 3 seconds (Lid Open) |

13 μ Mini Fuge

- Compact design to minimize bench space used
- Rapid acceleration (<12 sec) and deceleration (<16 sec)
- Simple display with mono LCD
- Safe operation with lid-lock function
- Autoclavable rotor
- Corrosion resistant rotor
- Two rotors available 12 x 1.5 / 2 ml Tubes (Standard) & 32 x 0.2 ml Tubes or Strips (option)

| TECHNICAL SPECIFICATIONS | |
|---------------------------|---------------------------------------|
| Maximum RPM | 13,500 RPM |
| Maximum RCF | 12,300 x g |
| Maximum Capacity | 1.5 ml / 2.0 ml x 12 |
| Run Time | ≤ 30 min |
| Noise Level | ≤ 60 dB |
| Acceleration Time | ≤ 12 seconds |
| Deceleration Time | ≤ 16 seconds |
| Safety | Lid-lock |
| Available Rotors | 1.5 ml x 12 0.2 ml x 32 PCR Strips |
| Power & Frequency | 220V, 50/60 Hz |
| Dimensions (W x D x H) mm | 208 x 245 x 145 |
| Weight | 4.4 kg |







The VELOCITY Range

BENCH TOP CENTRIFUGES

Designed in Australia.

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