

REMI

**Technology
meets Simplicity**

REMI

Laboratory Instruments

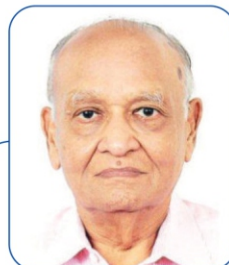
REMI GROUP, established in 1960 by the late visionary Mr. C. K. Saraf along with his son Mr. V. C. Saraf (present Chairman), has diversified into multi-product manufacturing divisions to become one of India's most trusted brands. Each division of **REMI GROUP** has its headquarters in Mumbai & is involved in Manufacturing, Marketing & Distribution throughout India with more than 14 branches through its network of over 950 dealers & exports to more than 50 countries around the globe. **REMI** is synonymous with reliability & fair business practices.

REMI Instruments and Healthcare Division is a pioneer in manufacturing Laboratory /Magnetic Stirrers and Centrifuges, Blood bank refrigerators /freezers meeting more than 50% of Indian demand. Our best in technologies products made with our manufacturing experience of over 50 years ensure that **REMI** instruments are user friendly and always available close to you. This has enabled us to sell more than a million units till date. Our success is an outcome of our unwavering focus on our **core values-Quality, Integrity, Reach & Customer Focus**

Placing a strong emphasis on delivering hi-tech quality products that are simple to operate, durable, safe and reliable, we have established Quality Management Systems in place. All products manufactured by us are made to comply with national/international standards as per customer requirements.

REMI is committed to be in touch with the latest technology to offer innovative products and upgrade existing products based on customer feedback. Efficient delivery schedules, cost-effective prices and exceptional after sales service has made **REMI** a trusted name in the industry

With technology as its backbone, **REMI** is continuously evolving and is in the process of upgrading existing products based on customers' feedback as well as introducing products that set the benchmark for quality.



From the Chairman's Desk






REMI is synonymous with reliability. With over half a century of serving scientific and healthcare professionals, REMI, today is a globally well-known and trusted brand with a pan India distribution network of more than 950 dealers. Our branches across India combined with our distribution network ensure that REMI products are available immediately at a location close to you. REMI today is considered a pioneer in laboratory & healthcare instruments sector due to its expertise in adopting technology to offer performance oriented quality products at affordable price points.

For all this achievements and awards, I wish to recognize and thank all our stakeholders for continuously supporting REMI in its various endeavors. I also wish to heartily thank our customers for their feedback, which is always our greatest source of learning and improving our products. Special thanks to our dedicated dealers for the continued commitment and synergies as we expand the boundaries with modern technology that simplifies the work of our customers.

Our commitment towards providing technically sound products and exceptional after sales service remains strong. Let me reiterate our promise once again to keep the momentum going, to cross milestone after milestone in pursuit of being the partner of choice to our customer. Let us deliver world-class quality products to make life simple and beautiful

It is with great pride & immense pleasure that I present our new catalogue to you. The catalogue explains in detail the new products that we are introducing now along with the upgradation in existing product lines done by us. I invite you to go through the catalogue and see which products best fit your organization.

V. C. Saraf
Chairman

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**ZERO
COMPROMISE MODELS**

- BRUSHLESS
- ECONOMICAL



RQ-5 Plus



RQ-100 Plus

Laboratory Stirrers

REMI presents the next generation of laboratory stirrers for stirring / mixing etc of chemical, pharmaceutical, food and cosmetic products. The equipment basically consists of body, Chuck, stainless steel blade propeller and a U-type stand.

Salient Features :

- High torque even at low speeds
- Monitoring of set & actual speed
- Wide range of impellers
- Advanced Stirrers with microprocessor technology
- Advanced Stirring speed control through VFD
- Constant speed even with change of load / Voltage
- Easy -to- read display of set & actual parameters
- Last parameter recall. Ideal for repetitive processes
- Accepts shafts up to 13mm Ø
- Motor protection in case of continuous overload
- Stopper for protection of vessel & shaft
- Special base design for topple free operation

Technical Data

| Features | RQ-5 Plus | RQ-100 Plus |
|---|----------------------------|----------------------------|
| Max. stirring capacity (Water) (Liters) | 5 | 100 |
| Motor Type | BLDC | AC Induction, 3 phase |
| Motor rating | 10 watt | 100 watt |
| Speed range [rpm] | 50-1500 | 100-4000 |
| Speed display | LED | LED |
| Timer | 0 to 99 Minutes | 0 to 99 Minutes |
| Motor Overload protection | LED light flash, auto stop | LED light flash, auto stop |
| Chuck Ø (mm) | 1.5 to 10 | 1.5 to 13 |
| Stirring Shaft Ø x length (mm) | 6 x 380 mm | 12 x 500 |
| Impeller Type / Ø (mm) | Axial Turbine / 36 | Pitched x 2 / 65 |
| Dimensions [W x D x H] (mm) | 80 x 180 x 370 | 320 x 285 x 620 |
| Stand length (mm) | 500 | 1220 |
| Weight [kg] | 6.5 | 19 |
| Power [W] | 10 watt | 175 watt |

Supply: 220-240 Volts, 50 Hz, Single Phase.



RQ-20 Plus

Laboratory Stirrers

REMI presents the next generation of laboratory stirrers for stirring / mixing etc. of chemical, pharmaceutical, food and cosmetic products. The equipment basically consists of body, chuck, stainless steel blade propeller and stand.

Salient Features :

- 2 models – 40 liters & 20 liters capacity
- Advanced Stirrers with microprocessor technology
- Speed range 50 – 2200 rpm
- Monitoring of set & actual speed
- Constant speed even with change of load / Voltage
- High torque even at low speeds
- Accurate stirring speed control
- Maintenance free Brushless DC motor ensures high torque
- Easy-to-read backlit LCD for display of set & actual parameters
- Display of torque / speed
- Last parameter recall, ideal for repetitive processes
- Motor protection in case of continuous overload
- Accepts shafts up to 13mm Ø
- Protection class acc. to DIN/EN 60529
- Stopper for protection of vessel & shaft
- Special base design for topple free operation

| Technical Data | | |
|---|----------------------------|----------------------------|
| Features | RQ-40 Plus | RQ-20 Plus |
| Max. stirring capacity (Water) (Liters) | 40 | 20 |
| Motor rating input [W] | 120 | 60 |
| Motor rating output [W] | 100 | 50 |
| Speed range [rpm] | 50-2200 | 50-2200 |
| Speed display | LCD | LCD |
| Max. torque [Ncm] | 60 | 40 |
| Torque display | LCD | LCD |
| Motor Overload protection | LED light flash, auto stop | LED light flash, auto stop |
| Chuck Ø [mm] | 13 | 13 |
| Stirring Shaft Ø x length (mm) | 8 x 220 | 8 x 220 |
| Impeller Type / Ø [mm] | 4 Cross Blade / 50 | 4 Cross Blade / 50 |
| Dimensions [W x D x H] (mm) | 83 x 186 x 220 | 83 x 186 x 220 |
| Stand length (mm) | 750 | 750 |
| Weight [kg] | 2.4 | 2.4 |
| Power [W] | 130 | 70 |
| Protection class acc. to DIN/EN 60529 | IP 42 | IP 42 |

Supply: 220-240 Volts, 50 Hz Single Phase.



RQ - 121 / D



RQT - 124 A / D



RQ - 129 / D

Direct Drive Stirrers

AC / DC Lab Stirrers

They are designed to meet requirements of laboratories demanding wide flexibility of stirring operations. These stirrers are available in various models. The choice of model will be dependant on the batch size / volume to be stirred.

Salient features :

- Multipurpose stirrers for general purpose & PUF stirring
- Heavy duty stirrers for pilot plant, bench scale process & small batch production
- Models also available with digital speed indicator for speed indication & process validation

PMDC Lab Stirrers

Permanent Magnet DC (PMDC) Stirrers are specially designed for routine laboratory work, research and development, QA analysis and sample preparations. Stirrers have uniform speed control with digital RPM indicator which gives speed read outs, valuable for applications where process validation and reproducibility is required.

RQ - 121 / D, RQ - 126 / D and RQ - 129 / D models use direct drive motors & are ideal for day to day laboratory use with aqueous & low viscosity liquids such as light oils.

Salient Features :

- PMDC motor for powerful stirring
- Reliable performance even in continuous use
- Stepless electronic speed regulator with digital display
- Hollow shaft in Geared models permitting height adjustment
- Chuck for easy interchangeability of shaft
- Stirring shaft SS 316; Retort Rods SS 304



RQG - 129 / D



RQ - 128 / D

Geared Stirrers

The Geared Stirrers are specially designed for a broad spectrum of applications requiring low speed & high torque for stirring of viscous fluids & materials. These stirrers are used in routine laboratory work, research and development, QA analysis and sample preparations.

The user has choice of different types of drives i.e. AC / DC, PMDC or AC with stepless speed regulations for continuous variation of speed as per requirements.

PMDC Geared Stirrers

These stirrers have PMDC motors with hollow shafts in output spindle (except RQG-121/D), permitting length adjustment with ability to mix high viscosity liquids such as heavy oils, lubricants & paints. It has uniform speed control with digital RPM indicator which gives speed read outs, valuable for applications where process validation and reproducibility is required.

- PMDC motor for powerful stirring
- Reliable performance even in continuous use
- Hollow shaft in Geared models permitting height adjustment
- Stirring shaft SS 316; Retort Rods SS304

AC Geared Stirrers

- Specially designed AC geared stirrers for continuous mixing in viscous materials and solvents that change viscosity during mixing. Heavy duty brushless motor produces no spark.

Salient Features :

- Stirring shaft length-adjustable in hollow output spindle
- Stirring shaft SS 316 & Retort Rods SS 304

AC / DC Universal Geared Stirrers

- These Geared stirrers have Universal AC / DC motor, for routine mixing application in laboratories.



RQ - 140 / D



RQ - 140 / DE



RQ-127 A/D

AC Stirrers

These Stirrers are specially designed brushless AC variable speed stirrers driven by frequency inverter to ensure reproducible speed with any load.

Model RQ - 140 / D - FP is available with flame proof motor & frequency inverter inside flameproof enclosure.

These stirrers have steady & constant speed for viscous materials and solutions that change viscosity during mixing. They have built in digital RPM indicator for process validation and reproducibility.

Salient Features :

- Facility for setting of stirring speed in increments of 10 RPM
- Digital display of stirring speed within the range of 10% to 100% (+100 RPM)
- Stirring shaft SS 316, Retort Rods SS 304

Homogenisers & Emulsifiers

These are designed for homogenization, emulsification, dispersion and mixing of fluids at high speed. The user has a choice of selecting from AC Drive or AC / DC Drive with stepless speed regulations for continuous variation of speed as per requirements.

RQ - 127A / D suitable for homogenizing of tissues at high speed available. Chuck to hold shaft upto 10 mm dia. fitted with PTFE grinding pestle (50ml). Glass homogenising cup with rod supplied as standard, optional available 5 ml, 15 ml, 25 ml & 100 ml.

RQ - 127/ D, RQ -130 / D, RQ - 130B / D are with AC / DC motor, these units are with Saw cutter impeller housed in flange type cage. **Optional digital speed indicator available for precise setting of speed.**

RQ - 140 / DE specially designed brushless AC variable speed Emulsifier driven by frequency inverter to ensure reproducible speed with any load. Steady & constant speed ideal for solutions that change viscosity during mixing. Emulsifier has built in digital RPM indicator for process validation and reproducibility.

| Model | Stirring Shaft | | Impeller | | Motor | Speed (rpm) | | Stirring capacity | | Digital Speed Indicator |
|-----------------------------------|----------------|--------|-------------------|--------|---------------|-------------|------|-------------------|-------------|-------------------------|
| | Length (mm) | Ø (mm) | Type | Ø (mm) | | Min | Max | Type of fluid | Max. Volume | |
| Direct Drive Stirrers | | | | | | | | | | |
| RQ-121/D | 250 | 8 | Axial Turbine | 36 | PMDC | 200 | 2000 | Water/Light Oil | 10 Ltrs. | ✓ |
| RQ-126/D | 450 | 10 | Pitched Fan | 75 | PMDC | 120 | 2000 | Water/Light Oil | 25 Ltrs. | ✓ |
| RQ-129/D | 550 | 10 | Pitched Fan | 100 | PMDC | 100 | 1400 | Water/Light Oil | 50 Ltrs. | ✓ |
| RQM-122/R | 250 | 6 | Pitched Fan | 38 | AC/DC 1/20 HP | 800 | 4000 | Water | 7 Ltrs. | × |
| RQ-122/D | 250 | 6 | Pitched Fan | 38 | AC/DC 1/20 HP | 800 | 4000 | Water | 7 Ltrs. | × |
| RQ-124A/D | 350 | 8 | Pitched Fan | 52 | AC/DC 1/8 HP | 300 | 4000 | Water | 20 Ltrs. | × |
| RQT-124A/D | 350 | 8 | Pitched Fan | 52 | AC/DC 1/8 HP | 300 | 4000 | Water | 20 Ltrs. | ✓ |
| RQ-134S/D | 450 | 12 | Pitched Fan x 2 | 55 | AC/DC 1/4 HP | 900 | 5000 | Water | 35 Ltrs. | × |
| RQ-134L/D | 450 | 12 | Pitched Fan x 2 | 65 | AC/DC 1/2 HP | 900 | 6000 | Water | 60 Ltrs. | × |
| RQ-134H/D | 450 | 12 | Pitched Fan x 2 | 75 | AC/DC 2/3 HP | 500 | 5000 | Water | 80 Ltrs. | × |
| RQT-134H/D | 450 | 12 | Pitched Fan x 2 | 75 | AC/DC 2/3 HP | 500 | 5000 | Water | 80 Ltrs. | ✓ |
| Geared Stirrers | | | | | | | | | | |
| RQG-121/D | 250 | 6 | Axial Turbine | 36 | PMDC | 50 | 550 | Light Oil | 5 Ltrs. | ✓ |
| RQG-126/D | 450 | 8 | 4 Cross Blade | 75 | PMDC | 50 | 750 | Paint/Gear Oil | 15 Ltrs. | ✓ |
| RQG-129/D | 550 | 10 | 4 Cross Blade | 100 | PMDC | 50 | 550 | Paint/Gear Oil | 25 Ltrs. | ✓ |
| RQ-128/D | 310 | 8 | 4 Cross Blade | 90 | AC/DC 1/20 HP | 50 | 150 | Light Oil | 3 Kgs. | × |
| RQ-128B/D | 310 | 8 | 4 Cross Blade | 90 | AC/DC 1/8 HP | 50 | 150 | Light Oil | 7 Kgs. | × |
| RQ-128D/D | 450 | 12 | 4 Cross Blade x 2 | 120 | AC/DC 1/2 HP | 50 | 280 | Light Oil | 20 Kgs. | × |
| RQG-128A/D | 450 | 8 | 4 Cross Blade | 75 | AC Brushless | 50 | 550 | Water | 10 Ltrs. | × |
| RQG-128C/D | 450 | 10 | 4 Cross Blade | 90 | AC Brushless | 50 | 500 | Paint/Gear Oil | 20 Ltrs. | × |
| AC Stirrers / Flameproof Stirrers | | | | | | | | | | |
| RQ-140/D | 730 | 10 | 4 Cross Blade | 100 | AC Brushless | 100 | 1400 | Water/Light Oil | 40 Ltrs. | ✓ |
| RQ-140/DFP | 550 | 10 | 4 Cross Blade | 100 | Flame Proof | 100 | 1400 | Water/Light Oil | 40 Ltrs. | ✓ |
| Homogenisers / Emulsifiers | | | | | | | | | | |
| RQ-127/D | 250 | 8 | Saw Cutter | 30 | AC/DC 1/8 HP | 300 | 6000 | Water | 8 Ltrs. | × |
| RQT-127/D | 250 | 8 | Saw Cutter | 30 | AC/DC 1/8 HP | 300 | 6000 | Water | 8 Ltrs. | ✓ |
| RQ-127A/D | 275 | 8 | Teflon Pestle | | AC/DC 1/8 HP | 300 | 8000 | | upto 100ml | × |
| RQT-127A/D | 275 | 8 | Teflon Pestle | | AC/DC 1/8 HP | 300 | 8000 | | upto 100ml | ✓ |
| RQ-130/D | 480 | 12 | Saw Cutter | 40 | AC/DC 1/4 HP | 300 | 5000 | Water | 20 Ltrs. | × |
| RQT-130/D | 480 | 12 | Saw Cutter | 40 | AC/DC 1/4 HP | 300 | 5000 | Water | 20 Ltrs. | ✓ |
| RQ-130B/D | 480 | 12 | Saw Cutter | 60 | AC/DC 2/3 HP | 300 | 5000 | Water | 35 Ltrs. | × |
| RQT-130B/D | 480 | 12 | Saw Cutter | 60 | AC/DC 2/3 HP | 300 | 5000 | Water | 35 Ltrs. | ✓ |
| RQ-140/DE | 480 | 12 | Saw Cutter | 40 | AC Brushless | 500 | 5000 | Water | 35 Ltrs. | ✓ |

Supply: 220-240 Volts, 50 Hz Single Phase.

Impellers



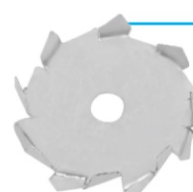
Axial Turbine

Axial flow from top to bottom for stirring in round vessels



Pitched Fan

Radial flow from top to bottom for medium to high speed. For aeratin of low viscosity media



Saw Cutter

Radial flow from top to bottom for medium to high speed with high shearing force



4 Cross Blade

Axial flow from top to bottom for medium to high speed



Teflon Pestle

For homogeniser

Magnetic Stirrer



MS 800 Plus

Ultra - flat compact magnetic stirrer, guaranteed with modern magnet coil technology. Wear - free with no moving parts. To ensure better mixing, the lab disc can reverse direction of rotation automatically every 30 seconds

- No moving parts - truly maintenance free
- Low aspect ratio (just 12 mm thick)
- Software driven gradual acceleration
- Adjustable speed (15 to 1500 RPM) with digital display
- Microprocessor controlled with last run memory feature
- Stirring cap. 800 ml - set up place of 100 mm
- Pulse mode - reverses the direction every 30 secs for proper mixing
- Universal power supply - small wall mount adaptor
- IP 65 compliant design (Water spill resistant)

- Corrosion resistant SS top surface to fight harsh chemicals
- Recommended Stir bar length 25 mm
- Supplied with 1 (one) high strength stir bar

| Technical Data | |
|--------------------------------------|--|
| Specifications | MS-800 Plus |
| Max RPM | 1500 RPM |
| Speed Setting | 15 to 1500 RPM (at every 50 RPM) |
| Set - up plate material | Stainless Steel |
| Speed indicator | Yes |
| Permissible ambient temperature [°C] | 5 - 40 |
| Permissible relative humidity [%] | 80 |
| Load capacity (Water) | 800 ml |
| Recommended Stir bar length | 25 mm |
| Pulse function | Yes |
| Sync Mode | No |
| Last run memory | Yes |
| Dimensions (W X D X H) | 120 x 164 x 12 mm |
| Weight | 400 gm |
| Protection Class | IP 65 compliant design (Water spill resistant) |

Supply: 220-240 Volts, 50 Hz Single Phase.


1-MLH

1-ML

1-RML

Magnetic Stirrers

“ML” series of Magnetic Stirrers with stainless steel top housing are most compact models. Permanent Magnet DC (PMDC) motor gives high torque even at lower speeds and maintains speed stability despite viscosity or volume changes. Different models available for all types of laboratory stirring applications up to 10 liters. Accurate stepless speed control with digital display allows smooth variation up to 1200 rpm.

“MLH” series Magnetic Stirrers with hot plate are similar to the ML series of magnetic stirrers but have additional stainless steel hot plate. Heat energy is controlled by energy regulator.

Rotamantles

These are specially designed to meet laboratory requirement of convenient stirring in flask with simultaneous uniform heating by heating mantles. These have two tier constructions with the upper

compartment consisting of heating element. Accurate stepless speed control allows smooth variation up to 1200 rpm. Heating energy is controlled by energy regulator.

Salient Features :

- PMDC motor for higher torque even at low speeds
- Better speed regulation even with small volume & low speeds
- Accurate stepless speed control maintains excellent speed stability
- Digital Speed Indicator for display of stirring speed
- Totally enclosed unit
- Designed for use even in corrosive atmosphere

Technical Data

| Models | Stirring Capacity | Heating Capacity | External Dimensions | Stirring Paddle (PTFE Coated) | |
|---|-------------------|------------------|---------------------|-------------------------------|------------|
| | Ltrs. | Watts | (WxDxH) mm | Model | Ø x length |
| Stirrers without Hotplate | | | | | |
| MS-500 | 500 ml | - | 105 x 135 x 70 | Q-18A | 7 x 15mm |
| Stirrers without Hotplate (with Digital Speed Indicator) | | | | | |
| 1-ML | 1 | - | 150 x 220 x 150 | Q-19 | 9 x 25mm |
| 2-ML | 2 | - | 150 x 220 x 150 | Q-19A | 9 x 35mm |
| 5-ML | 5 | - | 180 x 220 x 150 | Q-20A | 13 x 50mm |
| Stirrers with Hotplate (with Digital Speed Indicator) | | | | | |
| 1-MLH | 1 | 150 | 200 x 225 x 185 | Q-19 | 9 x 25mm |
| 2-MLH | 2 | 300 | 200 x 225 x 185 | Q-19A | 9 x 35 mm |
| 5-MLH | 5 | 500 | 200 x 225 x 185 | Q-20A | 13 x 50 mm |
| Rotamantles | | | | | |
| 1-RML | 1 | 300 | 210 x 210 x 205 | Q-19 | 9 X 25 mm |
| 2-RML | 2 | 400 | 260 x 260 x 240 | Q-19A | 9 X 35 mm |
| 3-RML | 3 | 500 | 300 x 300 x 260 | Q-20A | 13 x 50 mm |

Supply: 220-240 Volts 50 Hz Single Phase.



10 MLH Plus



5 MLH Plus

REMI presents the next generation of magnetic stirrers with new stir technology. These are available in both hotplate & without hotplate versions.

Salient Features :

- Speeds range 150 - 1500 rpm
- Stainless Steel Hot Plate model for temperatures up to 340°C
- Ceramic Hot Plate model for temperatures up to 550°C (10 MLH Plus)
- Easy-to-read backlit LCD for display of set & actual parameters
- Monitoring of set & actual temperature / speed
- High accuracy of temperature control with embedded dual sensors
- Advanced Stirrers with microprocessor technology
- Constant speed even with change of load / Voltage
- Maintenance free brushless motor
- Scratch proof & excellent chemical resistance
- External temperature probe (PT-1000) for control of fluid temperature
- Last parameter recall, ideal for repetitive processes
- Unique safety temperature control system
- Settable safe temperature limit to avoid overheating
- Residual Temperature warning when unit is switched off for operator safety

| Technical Data | | | |
|--|------------------|-------------------|-------------------|
| Model | 5-MLH Plus | 10-MLH Plus | 20-ML Plus |
| Power [W] | 550 | 1050 | 50 |
| Max. stirring quantity (Water)(Liters) | 5 | 10 | 20 |
| Stirring Paddle (PTFE coated) | Q-19A (9 X 35mm) | Q-20A (13 X 50mm) | Q-20A (13 X 50mm) |
| Motor rating input [W] | 18 | 18 | 18 |
| Motor rating output [W] | 10 | 10 | 10 |
| Speed range [rpm] | 150-1500 | 150-1500 | 150-1500 |
| Speed / Temperature display | LCD | LCD | LCD |
| Speed display resolution [rpm] | 1 | 1 | 1 |
| Top Plate Material | Stainless Steel | Ceramic Glass | Stainless Steel |
| Dimension of Top Plate [mm] | Φ157 | 184 x 184 | 300 x 350 |
| Heating power [W] | 500 | 1000 | - |
| Temperature Range | Upto 340°C | Upto 550°C | - |
| Control accuracy of heating temperature | 1°C | 1°C | - |
| Residual Heating Warning Alarm | Above 50°C | Above 50°C | - |
| Control accuracy of heating temperature with PT-1000 | 0.2°C | 0.2°C | - |
| External Temperature sensor | PT-1000 | PT-1000 | - |
| Dimensions (WxDxH) (mm) | 342 x 210 x 115 | 360 x 215 x 112 | 300 x 350 x 100 |
| Protection class acc. to DIN EN60529 | - | IP 21 | - |

Supply: 220-240 Volts, 50 Hz Single Phase.

Magnetic Stirrer

Salient Features :

- Large LCD screen
- Microprocessor controller
- Stepless speed regulation
- Aluminum alloy working plate
- Over-temp alarm system, auto switch off when 380°C
- Caution indication light: auto switch on when working plate temperature is over 50°C



15-MLH Plus

| Technical Specifications | |
|---|-------------------|
| Model | 15-MLH Plus |
| Stirring capacity (H ₂ O) (Liters) | 15 |
| Speed range(rpm) | 200 - 1800 |
| Heating power (Max. W) | 750W |
| Input power (Max. W) | 800W |
| Working plate temp range (°C) | RT+5~380°C |
| Stirring Paddle (PTFE coated) | Q-20A (13 x 50mm) |
| Plate dimension (mm) | 180X180 |
| Exterior dimension (W x D x H) (mm) | 210X330X130 |
| Weight (KG) | 4.5 |

Supply: 220-240 Volts, 50 Hz Single Phase.

Multi Vortexer



VM-100

The Multi-Tube Vortexer is designed for mechanical and chemical cell lysis, mixing suspensions, and general sample agitation. The Multi-Tube Vortex mixer is a tool to provide that extra degree of mixing, however it accommodates full racks of tubes or microwell plates, vials or cylinder as opposed to single tubes. Consequently, this unit is useful for higher throughput mixing of samples. The suction-cup feet dampen motion and prevent sliding on work surface. Equipped with a powerful, permanent magnet motor with sealed ball bearings.

The variable speed microprocessor control provides consistent uniform mixing action

LCD Display :

Touch pad controls with easy-to-read, independent LCD displays for speed and time allow operator to view both settings at once.

Pulsing Mode :

Programmable pulsing mode allows user to adjust the pulse-on and pulse-off times between 1 and 59 seconds in 1 second intervals.

| Technical Data | |
|----------------------------------|-------------------|
| Specifications | VM-100 |
| Speed Range* | 500 to 2500 |
| Timer | 1 sec to 999 Hrs. |
| Orbit | 3.6 mm |
| Maximum Weight Capacity | 24 x 15 ml |
| Duty Rating | Continuous |
| Tray Dimensions (L x W) mm | 313 x 180 |
| Overall Dimensions (W x D x H)mm | 400 x 325 x 430 |

Supply: 220-240 Volts 50 Hz Single Phase.

* Maximum speed will vary depending on load

Cyclo Mixer

Vortex Mixers

- Designed for mixing liquids in Schools, Laboratories & Factories
- Touch/Continuous Operation mode Selection through bi-directional Switch
- Speed Regulation through knob provided on the control panel
- Interchangeable mixing heads for use with variety of tubes
- Supplied with all interchangeable mixing heads



CM-101 Plus

CM-101

| Technical Data | | |
|------------------------------------|------------------------------|-----------------|
| Models | CM-101 PLUS | CM-101 |
| Power (W) | 32 | |
| Shaking Movement | Orbital | |
| Orbital Diameter (mm) | 4 | |
| Motor Type | Shaded-Pole Motor | |
| Permissible ON time | 100% power 30mins | |
| Speed range (rpm) | 0-2500 | |
| Run Type | Continuous / touch operation | |
| Dimensions (mm) | 185 x 150 x 165 | 178 x 141 x 148 |
| Weight (kg) | 2.8 | 3.6 |
| Protection Class acc. to DIN 60529 | IP 21 | - |

Supply: 220-240 Volts, 50 Hz Single Phase.

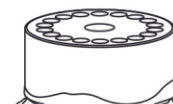
| Interchangeable Mixing Heads | |
|------------------------------|--|
| Models | Description |
| CM-01 | Universal top 100 mm- plate attachment |
| CM-01/01 | Tube adapter for 18 holes test tubes Ø 10mm [use with CM-01] |
| CM-01/02 | Platform pad for < Ø 99mm tubes and small vessels [use with CM-01] |
| CM-01/03 | Tube adapter for 8 holes test tube Ø 20mm [use with CM-01] |



CM - 01



CM - 01/03



CM - 01/01

Water Bath



REMI Water Bath is multipurpose water bath with adjustable double line six holes to hold different size samples for easy & hygienic heating. RWB provides precise and constant temperature helps achieving uniform heating for the samples.

Salient Features:

- Microprocessor control with timing function
- Digital display
- Audible and visual alarm for over temperature

| Technical Data | |
|--------------------------------|--------------------------|
| Parameter | RWB 6 |
| Temperature range | RT \pm 5°C ~99°C |
| Temperature stability | \pm 0.5°C |
| Tracking alarm | \pm 2°C |
| Chamber volume | 15 Ltrs |
| Interior Dimension (W×D×H, mm) | 450×300×110 |
| Timing range | 1~999 min. |
| Remark | Double lines six holes |
| Electrical requirements | 220V, 50Hz, Single phase |
| Power Consumption | 1500W |

Supply: 220-240 Volts, 50 Hz Single Phase. -

Water Bath Shakers



Water Bath Shaker RSB - 12

These Water bath Shakers have wide applications in Biotechnology, Micro - Biology, Chemistry, Quality Control and other life sciences laboratories. These units are double walled with exterior body and inner chamber of stainless steel having effective insulation in between. The stainless steel bath has size of 355 mm (W) x 300 mm (D) x 165 mm (H). A special pyramid type cover provided avoids evaporation of water and makes condensed water to fall back in the bath. A cock is provided to facilitate draining of Bath contents.

The removable stainless steel tray houses lotus clamps for variety of flask capacities. Standard unit supplied with tray accommodating 12 flasks x 100 ml. while trays with the following capacity are available optionally.

| | |
|--------------------|-------------------|
| 50 ml x 12 flasks | 150 ml x 9 flasks |
| 250 ml x 6 flasks | 500 ml x 4 flasks |
| 1000 ml x 2 flasks | 2000 ml x 1 flask |
| Test Tube racks | |

Salient Features :

- Inner chamber and outer body of SS 304
- Heating up to 95°C
- Digital Temperature Indicator cum Controller with precise accuracy of \pm 1°C
- Shaking speed range from 40 to 180 strokes per min
- Stroke length 25 mm

Supply: 220-240 Volts, 50 Hz Single Phase.

**WORLD CLASS
PREMIUM RANGE**

NEYA



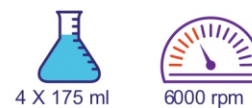
Derived from the Hindi word “NAYA” which means “new”, “novelty”, “innovation”, “NEYA” is the name given to the new generation of centrifuges recently developed by REMI.

REMI, market leader in centrifuges with over 55 years of manufacturing experience, combined with European design and style, makes a perfect combination to develop and present the whole range of “NEYA” centrifuges with performance and characteristics suitable for all the operational needs of modern laboratories.

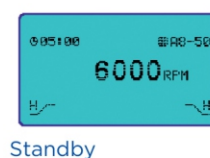
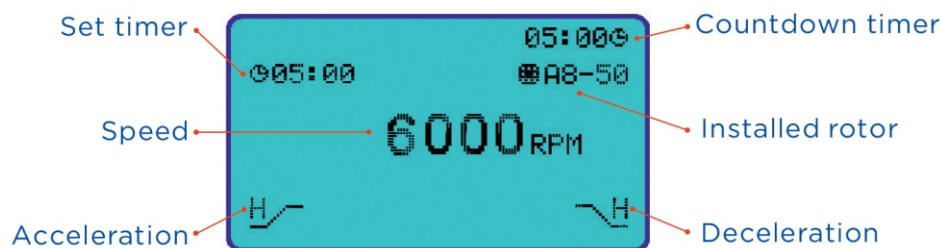
It is with these premises, we are pleased to present the new range of “NEYA” Centrifuge.

NEYA..... a new concept..... a new generation

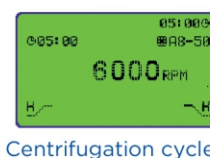
- Automatic rotor detection, check for presence of rotor and compatibility with maximum rated speed
- Safety speed limiter function
- Controlled by microprocessor
- Backlit color LCD display with contemporary visualization of all parameters
- Digital adjustment of acceleration and deceleration levels
- Compact sizes to optimize the space in laboratory
- Stainless steel internal bowl with optimal height for loading and unloading of samples
- Imbalance detection system with automatic functioning stop to avoid accidents
- Automatic locking system of the lid
- Safety opening of the lid in case of power failure
- Brushless motor maintenance free and no carbon deposits
- Construction in accordance with European directives



- **Maximum capacity 4 x 175 ml**
- **Maximum speed 6000 rpm**



Standby



Centrifugation cycle



Alarm signal

Technical Data

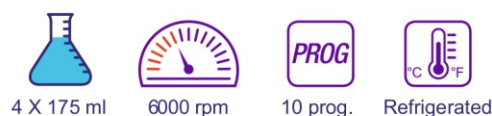
| Features | NEYA-8 |
|----------------------------------|---|
| Maximum capacity | 4 x 175 ml (swing out) - 6 x 100 ml (fixed angle) |
| Maximum speed | 4500 rpm (swing out) - 6000 rpm (fixed angle) |
| Setting RPM | Yes |
| Setting RCF | - |
| Display RCF | - |
| Timer | 00:30 to 99:50 (mm:ss) and continuous mode |
| Date and Time | Yes |
| Acceleration levels | L-M-H (Low - Medium - High) |
| Deceleration levels | L-M-H (Low - Medium - High) |
| Spin function | - |
| Programs | - |
| Indication of rotor | Yes |
| Noise | ≤ 55 dB |
| Directive / Standard | IEC 61010-1 ; IEC 61010-2-020 |
| External dimensions WxDxH/Weight | 450 x 590 x 330 mm / 40 Kg |

Supply: 220-240 Volts, 50 Hz Single Phase.

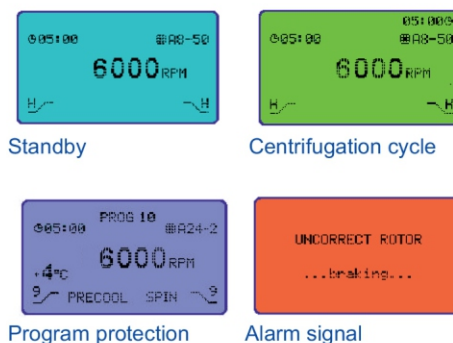
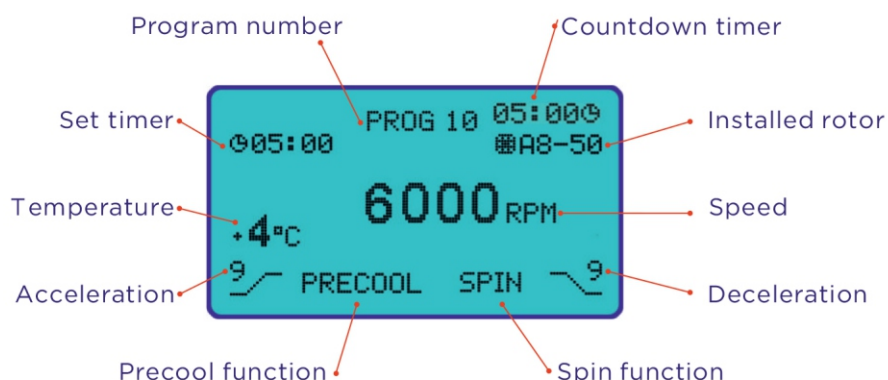


Optimal height for load and download of samples

- Automatic rotor detection, check of presence of accessories and compatibility with maximum speed
- Safety speed limiter function
- 10 storable programs with protection function
- Setting of speed in RPM and RCF
- Short Spin function and precool (NEYA 10R)
- Temperature range from 0°C to +40°C (NEYA 10R)
- Controlled by microprocessor and backlit color LCD display with contemporary visualization of all parameters
- Digital adjustment of acceleration and deceleration levels
- Stainless steel internal bowl with optimal height for loading and of samples
- Imbalance detection system with automatic functioning stop to avoid accidents
- Automatic locking system of the lid
- Safety opening of the lid in case of power failure
- Brushless motor maintenance free and no carbon deposits
- Construction in accordance with European directives



- **Maximum capacity 4 x 175 ml**
- **Maximum speed 6000 rpm**



| Technical Data | | |
|----------------------------------|---|----------------------------|
| Features | NEYA-10 | NEYA-10R |
| Maximum capacity | 4 x 175 ml (swing out) - 6 x 100 ml (fixed angle) | |
| Maximum speed | 4500 rpm (swing out) - 6000 rpm (fixed angle) | |
| Setting RPM | Yes | |
| Setting RCF | Yes | |
| Display RCF | Yes | |
| Timer | 00:30 to 99:50 (mm:ss) and continuous mode | |
| Date and Time | Yes | |
| Acceleration levels | 0-9 (0 = min - 9 = max) | |
| Deceleration levels | 0-9 (0 = min - 9 = max) | |
| Temperature range | - | 0°C to +40°C |
| Precool function | - | Yes |
| Display temperature | - | Yes (°C and °F) |
| Spin function | Yes | |
| Programs | 10 programs with protection function | |
| Indication of rotor | Yes | |
| Noise | ≤ 55 dB | ≤ 55 dB |
| Directive / Standard | IEC 61010-1 ; IEC 61010-2-020 | |
| External dimensions WxDxH/Weight | 450 x 590 x 330 mm / 40 Kg | 730 x 640 x 330 mm / 70 Kg |
| Recommended Voltage Stabilizer | - | VS-02 |

Supply: 220-240 Volts, 50 Hz Single Phase.

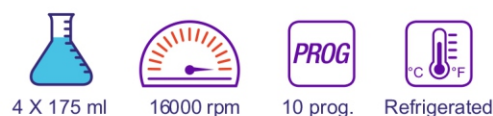


Ventilated centrifuge NEYA 10

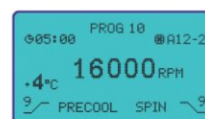
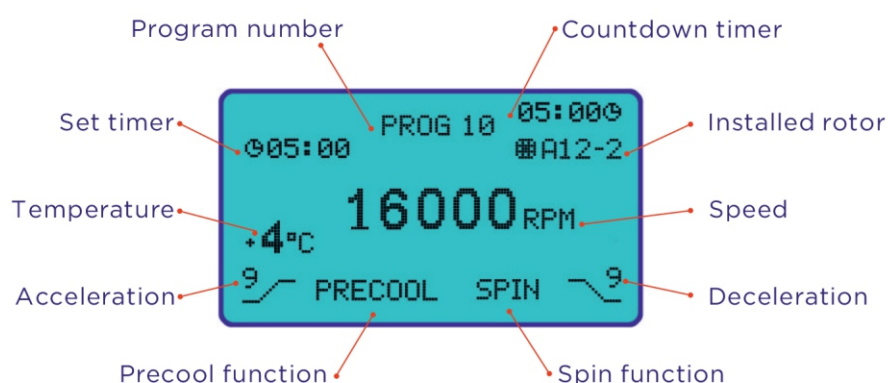


Visual signal of end of centrifugation

- Automatic rotor detection, check of presence of accessories and compatibility with maximum speed
- Safety speed limiter function
- 10 storable programs with protection function
- Setting of speed in RPM and RCF
- Short Spin function and precool (NEYA 16R)
- Temperature range from 0°C to +40°C (NEYA 16R)
- Controlled by microprocessor and backlit color LCD display with contemporary visualization of all parameters
- Digital adjustment of acceleration and deceleration levels
- Stainless steel internal bowl with optimal height for loading and unloading of samples
- Imbalance detection system with automatic functioning stop to avoid accidents
- Automatic locking system of the lid
- Safety opening of the lid in case of absence of electric power
- Brushless motor maintenance free and no carbon deposits
- Construction in accordance with European directives



- **Maximum capacity 4 x 175 ml**
- **Maximum speed 16000 rpm**



Standby



Centrifugation cycle



Program protection



Alarm signal

| Technical Data | | |
|----------------------------------|--|---|
| Features | NEYA-12 | NEYA-16R |
| Maximum capacity | 6 x 50 ml (fixed angle) | 4 x 175 ml (swing out) - 6 x 100 ml (fixed angle) |
| Maximum speed | 16000 rpm (fixed angle) | 4500 rpm (swing out) - 16000 rpm (fixed angle) |
| Setting RPM | | Yes |
| Setting RCF | | Yes |
| Display RCF | | Yes |
| Timer | 00:30 to 99:50 (mm:ss) and continuous mode | |
| Date and Time | | Yes |
| Acceleration levels | 0-9 (0 = min - 9 = max) | |
| Deceleration levels | 0-9 (0 = min - 9 = max) | |
| Temperature range | - | 0°C to +40°C |
| Precool function | - | Yes |
| Display temperature | - | Yes (°C and °F) |
| Spin function | | Yes |
| Programs | 10 programs with protection function | |
| Indication of rotor | | Yes |
| Noise | ≤ 55 dB | ≤ 55 dB |
| Directive / Standard | IEC 61010-1 ; IEC 61010-2-020 | |
| External dimensions WxDxH/Weight | 450 x 590 x 330 mm / 40 Kg | 730 x 640 x 330 mm / 70 Kg |
| Recommended Voltage Stabilizer | - | VS-02 |

Supply: 220-240 Volts, 50 Hz Single Phase.

Selection guide for centrifuge and rotors

| | | Technical Data | | | | |
|--|--|---|---|--|---|---|
| | | NEYA 8 | NEYA 10 | NEYA 10R | NEYA 12 | NEYA 16R |
| | |  |  |  |  |  |
| Max. Speed | rpm | 6000 | 6000 | 6000 | 16000 | 16000 |
| Max. RCF | g | 4800 | 4800 | 4800 | 21000 | 21000 |
| Max. Tube size | ml | 175 | 175 | 175 | 50 | 175 |
| Max. capacity | | 700 | 700 | 700 | 300 | 700 |
| No. of Programs | | - | 10 | 10 | 10 | 10 |
| Acceleration* | | H-M-L | 10 Profiles | 10 Profiles | 10 Profiles | 10 Profiles |
| Deceleration* | | H-M-L | 10 Profiles | 10 Profiles | 10 Profiles | 10 Profiles |
| Lowest Temp.* | °C | - | - | 0 | - | 0 |
|  | S 4-175 max 4500 rpm max 3600 g | ✓ | ✓ | ✓ | | ✓ |
|  | S 6-96 MP 6 x 96 deep wells max 3200 pm | ✓ | ✓ | ✓ | | ✓ |
|  | A 32-15 32 x 15 ml max 5200 rpm max 4020 g | ✓ | ✓ | ✓ | | ✓ |
|  | A 8-50 8 x 50 ml max 6000 rpm max 4800 g | ✓ | ✓ | ✓ | | ✓ |
|  | A 24-2 24 x 2 ml max 15000 rpm max 21000 g | | | | ✓ | ✓ |
|  | A 36-05 36 x 0.5 ml max 15000 rpm max 21000 g | | | | ✓ | ✓ |
|  | A 6-100 6 x 100 ml max 5000 rpm max 3330 g | ✓ | ✓ | ✓ | | ✓ |
|  | A 6-50 6 x 50 ml max 9500 rpm max 10050 g | | | | ✓ | ✓ |
|  | PCR 4-8 4 strip of 8 PCR max 15000 rpm max 21000 g | | | | ✓ | ✓ |
|  | A 12-5 12 x 5 ml max 15000 rpm max 20380 g | | | | ✓ | ✓ |
|  | A 12-2 12 x 2 ml max 16000 rpm max 16140 g | | | | ✓ | ✓ |
|  | HE 24-75 Ø1 x 75 mm max 12000 rpm max 15300 g 24 capillars | | | | ✓ | ✓ |

Notes:

* Depending on capacity, type of rotor, centrifugation speed, ambient temperature and other process parameters

High - Medium - Low

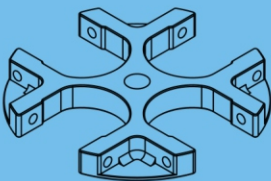

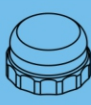




Selection guide for rotors



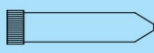




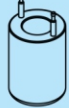
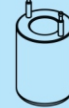
Nomenclature method of Rotors & accessories

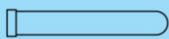
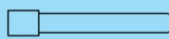




| Alphabets in beginning | Numbers in middle | Alphabets at end |
|------------------------|-------------------------------------|-----------------------|
| A= Fixed angle rotor | 1st numerical = Quantity per insert | F= Falcon® tube |
| S= Swing out rotor | 2nd numerical = Tube capacity (ml) | R = Round bottom tube |
| B= Bucket | | L= Long Tube |
| I= Insert for bucket | | S= Short Tube |
| C= Cushion | | |
| RE= Reducer | | |
| HE= Haematocrit Rotor | | |

| Examples | |
|------------|--|
| S 4-175 | (Swing out Rotor, 4 tubes of 175ml capacity) |
| A 32-15 | (Angle Rotor, 32 tubes of 15ml capacity) |
| B 2-50F | (Bucket, 2 tubes of 50ml capacity, Falcon®) |
| I 1-50R | (Insert, 1 tube of 50ml capacity round bottom) |
| C -15F | (Cushion for 15ml Falcon®) |
| RE 15-5/7L | (Reducer from 15ml to 5/7 ml long tube) |

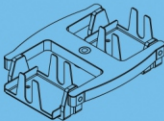

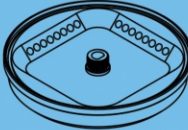
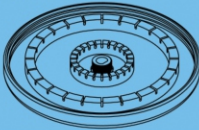
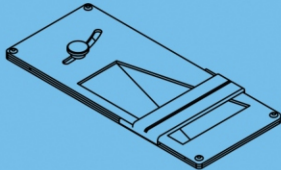



Options to be selected from following Rotors

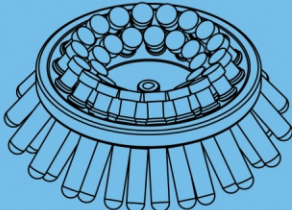
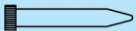




|  Swing Out Rotor S 4-175 Max. Speed (RPM) 4500 Max. RCF (g) 3600 | Metal Buckets suitable for Swing Out Rotor S 4-175 (Set of 4 buckets) | | | | | |
|---|---|---|--|---|---|---|
| | B 175 (with Bio safety Lid L 175) | B 2-50 F B 2-50 R | B 7-15 F B 7-15 R | B 12-10 | B 14-5/7 | B 16-5/7 |
| |  |  |  |  |  |  |

| Image of Tube |  |  |  |  |  |  |
|---|---|---|---|---|---|---|
| Tube Capacity (ml) | 175 | 100 | 50 | | 15 | |
| Ø x L (mm) | 57 x 99 | 45 x 104 | 29 x 116 | | 30 x 110 | |
| Max. Cap dia (mm) | 59.5 | | 34.5 | | 22.5 | |
| Type of Tube | Plastic | Glass / Plastic* | Falcon® | | Glass / Plastic* | |
| No of tubes/insert | 1 | 1 | 1 | 2 | 1 | 2 |
| No of tubes/rotor | 4 | 4 | 4 | 8 | 4 | 8 |
| Bucket Cat No. | B 175 | B 175 | B 175 | B 2-50 F | B 175 | B 2-50 R |
| Insert Cat No. | | I 1-100 | I 1-50-F | | I 1-50 R | |
| Image of Insert (Set of 4, supplied with suitable bottom cushions) | No |  |  | No |  | No |
| Tubes supplied | Yes | Yes (Glass) | No | | Yes (Glass) | |

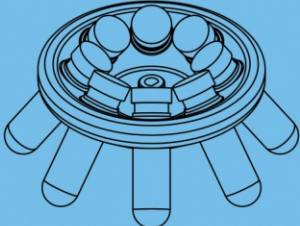


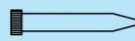
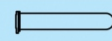

| Image of Tube |  |  |  |  |
|---|---|---|--|---|
| Tube Capacity (ml) | 10 | 5-7 | 5-7 | 2 |
| Ø x L (mm) | 15.5 x 106 | 12.5 x 106 | 12.5 x 81 | 11 x 42 |
| Max. Cap dia (mm) | 17 | 16 | 16 | |
| Type of Tube | Vacutainer® | | Vacutainer® | |
| No of tubes/Insert | 7 | 12 | 7 | 16 |
| No of tubes/rotor | 28 | 48 | 28 | 64 |
| Bucket Cat No. | B 175 | B 12-10 | B 175 | B 16-5/7 |
| Insert Cat No. | I 7-10 | | I 7-5/7 | |
| Image of Insert (Set of 4, supplied with suitable bottom cushions) |  | No |  | No |
| Tubes supplied | No | No | No | No |

Selection guide for rotors

| | | | | | | | |
|---|---|---|---|---|---|---|---------------|
| Swing Out Rotor S 6-96 MP Max speed RPM 3200 Max RCF (g) 1950   Plates MP 6-96 | | PCR Rotor PCR 4-8 Max speed RPM 15000 Max RCF (g) 21000  | | Angle Rotor HE 24-75 Max speed RPM 12000 Max RCF (g) 15300  | | Reading Device RD 24-75  | |
| Image of Tube |  | Image of Tube |  | Image of Tube |  | W x D x H | 127 x 84 x 18 |
| Tube Capacity (ml) | 6 x 96 wells | Tube Capacity (ml) | 4 strips of 8 PCR | Tube Capacity (ml) | — | | |
| Type of Tube | Micro | Type of Tube | PCR | Type of Tube | Capillary | | |
| No of tubes/rotors | 6 | No of tubes/rotors | 4 | No of tubes/rotors | 24 | | |
| W x D x L (mm) | 127 x 84 x 18 | Ø x L (mm) | 6 x 78 | Ø x L (mm) | 1 x 75 | | |
| Tubes supplied | No | Tubes supplied | No | Tubes supplied | Yes | | |

| | | | | | | |
|--|--------------------|---|---|--|---|---|
| Angle Rotor A 32-15 Max speed RPM 5200 Max RCF (g) 4020  | Image of Tube |  |  |  |  |  |
| | Tube Capacity (ml) | 15 | 15 | 10 | 5/7 | 5/7 |
| | Type of Tube | Falcon® | Plastic | Vacutainer® | Vacutainer® | Vacutainer® |
| | Insert Cat No | C 15F | No | No | RE 15-5/7L | RE 15-5/7S |
| | No of tubes/Insert | 1 | 1 | 1 | 1 | 1 |
| | No of tubes/rotors | 32 | 32 | 32 | 32 | 32 |
| | Ø x L (mm) | 16.5 x 120 | 17 x 102 | 15.5 x 106 | 12.5 x 106 | 12.5 x 81 |
| | Tubes supplied | No | Yes | No | No | No |

(Rotor is supplied with suitable SS tubes as carriers)

| | | | | | | |
|---|--------------------|---|---|--|---|---|
| Angle Rotor A 8-50 Max speed RPM 6000 Max RCF (g) 4800  | Image of Tube |  |  |  |  |  |
| | Tube Capacity (ml) | 50 | 50 | 15 | 15 | 10 |
| | Type of Tube | Falcon® | Plastic | Falcon® | Plastic | Vacutainer® |
| | Insert Cat No | C 50F | No | RE 50-15F | RE 50-15R | RE 50-10 |
| | No of tubes/Insert | 1 | 1 | 1 | 1 | 1 |
| | No of tubes/rotors | 8 | 8 | 8 | 8 | 8 |
| | Ø x L (mm) | 29 x 116 | 30 x 100 | 16.5 x 120 | 17 x 102 | 15.5 x 106 |
| | Tubes supplied | No | Yes | No | Yes | No |

(Rotor is supplied with suitable SS tubes as carriers)

Selection guide for rotors



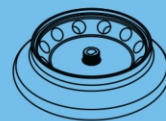
Angle Rotor A 6-100

Max speed RPM 5000

Max RCF (g) 3330

| | | | | | |
|--------------------|-----------------|------------|-----------------|------------|---------------------|
| Image of Tube | | | | | |
| Tube Capacity (ml) | 100 | 50 | 50 | 15 | 15 |
| Type of Tube | Glass / Plastic | Falcon® | Glass / Plastic | Falcon® | Round Plastic/Glass |
| Insert Cat No | No | RE 100-50F | RE 100-50R | RE 100-15F | RE 100-15R |
| No of tubes/Insert | 1 | 1 | 1 | 1 | 1 |
| No of tubes/rotors | 6 | 6 | 6 | 6 | 6 |
| Ø x L (mm) | 45.5 x 104 | 29 x 116 | 30 x 110/100 | 16.5 x 120 | 17 x 102/110 |
| Tubes supplied | Yes (Plastic) | No | Yes (Plastic) | No | Yes (Plastic) |

(Rotor is supplied with suitable SS tubes as carriers)

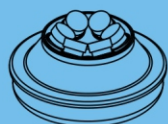


Angle Rotor A 12-5

Max speed RPM 15000

Max RCF (g) 20880

| | |
|--------------------|---------|
| Image of Tube | |
| Tube Capacity (ml) | 5 |
| Type of Tube | Micro |
| Insert Cat No | No |
| No of tubes/Insert | - |
| No of tubes/rotors | 12 |
| Ø x L (mm) | 16 x 59 |
| Tubes supplied | No |

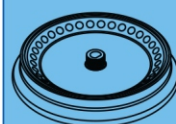


Angle Rotor A 6-50

Max speed RPM 9500

Max RCF (g) 10050

| | | | | | |
|--------------------|----------|----------|------------|-----------|-------------|
| Image of Tube | | | | | |
| Tube Capacity (ml) | 50 | 50 | 15 | 15 | 10 |
| Type of Tube | Falcon® | Plastic | Falcon® | Plastic | Vacutainer® |
| Insert Cat No | C 50F | C 50R | RE 50-15F | RE 50-15R | RE 50-10 |
| No of tubes/Insert | 1 | 1 | 1 | 1 | 1 |
| No of tubes/rotors | 6 | 6 | 6 | 6 | 6 |
| Ø x L (mm) | 29 x 116 | 30 x 100 | 16.5 x 120 | 17 x 102 | 15.5 x 106 |
| Tubes supplied | No | Yes | No | Yes | No |



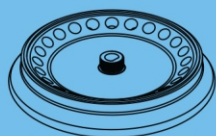
Angle Rotor A 36-05

Max speed RPM 15000

Max RCF (g) 21000

| | | |
|--------------------|----------|----------|
| Image of Tube | | |
| Tube Capacity (ml) | 0.5 | 0.2 |
| Type of Tube | Micro | Micro |
| Insert Cat No | No | RE 05-02 |
| No of tubes/Insert | 1 | 1 |
| No of tubes/rotors | 36 | 36 |
| Ø x L (mm) | 7.5 x 31 | 6 x 22 |
| Tubes supplied | No | No |

(Rotor supplied with all suitable inserts)



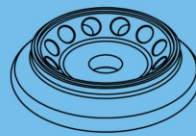
Angle Rotor A 24-2

Max speed RPM 15000

Max RCF (g) 21000

| | | | |
|--------------------|---------|----------|---------|
| Image of Tube | | | |
| Tube Capacity (ml) | 2 | 0.5 | 0.2 |
| Type of Tube | Micro | Micro | Micro |
| Insert Cat No | No | RE 2-05 | RE 2-02 |
| No of tubes/Insert | 1 | 1 | 1 |
| No of tubes/rotors | 24 | 24 | 24 |
| Ø x L (mm) | 11 x 41 | 7.5 x 31 | 6 x 22 |
| Tubes supplied | No | No | No |

(Rotor supplied with all suitable inserts)



Angle Rotor A 12-2

Max speed RPM 16000

Max RCF (g) 16140

| | | | |
|--------------------|---------|----------|---------|
| Image of Tube | | | |
| Tube Capacity (ml) | 2 | 0.5 | 0.2 |
| Type of Tube | Micro | Micro | Micro |
| Insert Cat No | No | RE 2-05 | RE 2-02 |
| No of tubes/Insert | 1 | 1 | 1 |
| No of tubes/rotors | 12 | 12 | 12 |
| Ø x L (mm) | 11 x 41 | 7.5 x 31 | 6 x 22 |
| Tubes supplied | No | No | No |

(Rotor supplied with all suitable inserts)

**ZERO
COMPROMISE MODELS**

- BRUSHLESS
- ECONOMICAL



Medico Plus

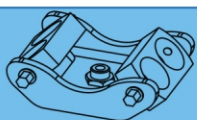


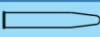
The most popular model is now available with brushless motor, door safety interlock, digital speed indicator and timer. Ideal for routine centrifuging requirements of medical practitioners, diagnostic laboratories and hospitals.

Salient Features :

- Brushless induction motor
- Speed control through VFD
- Microprocessor controller
- Feather touch keys
- Smooth and soft start
- Green LED display
- Lid interlock
- Dynamic brake
- Imbalance detection
- Emergency lid opening
- Accurate speed ± 10 RPM
- Timer upto 99 minutes
- Last parameter recall
- Calibration window
- Elegant lid and front panel
- Choice of swingout / Angle rotors

Nomenclature method of Rotors




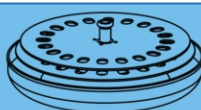
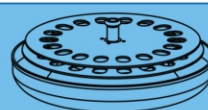







| Alphabets in beginning | Numbers in middle |
|------------------------|-------------------------------------|
| A = Fixed angle rotor | 1st numerical = Quantity per insert |
| S = Swing out rotor | 2nd numerical = Tube capacity (ml) |

| Image of Swing Out Rotors |  |  |
|---------------------------|---|---|
| Model | SM 4-50 | SM 8-15 |
| Max speed RPM | 4000 | 4000 |
| Max RCF (g) | 2220 | 2270 |
| Image of Tube |  |  |
| Tube Capacity (ml) | 50 | 15 |
| Type of Tube | Glass | Glass |
| No of tubes/rotors | 4 | 8 |
| Ø x L (mm) | 30 x 110 | 17 x 110 |
| Tubes supplied | Yes | Yes |

| Technical Data | | |
|----------------|-----|-----------------|
| Models | | Medico Plus |
| Capacity | ml | 300 ml |
| Max. Speed | RPM | 4000 |
| Max. RCF | 'g' | 2270 |
| W X D X H | mm | 325 x 370 x 280 |

Supply: 220-240 Volts, 50 Hz Single Phase.

Swingout Rotors are supplied with suitable SS tubes as carriers

| Image of Angle Rotors |  | |  | |  |  |  |
|-----------------------|---|---|---|---|---|---|---|
| Model | AM 36-5 | | AM 6-50 | | AM 12-15 | AM 20-5 | AM 18-10 |
| Max speed RPM | 4000 | | 4000 | | 4000 | 4000 | 4000 |
| Max RCF (g) | 2040 | | 2130 | | 2180 | 2090 | 2090 |
| Image of Tube |  |  |  |  |  |  |  |
| Tube Capacity (ml) | 5 | 5 | 50 | 50 | 15 | 5 | 10 |
| Type of Tube | Glass | Vacutainer® short | Glass | Plastic | Glass | Vacutainer® Long | Vacutainer® |
| No of tubes/rotors | 36 | 36 | 6 | 6 | 12 | 20 | 18 |
| Ø x L (mm) | 12 x 75 | 12.5 x 81 | 30 x 110 | 30 x 100 | 17 x 110 | 12.5 x 106 | 15.5 x 106 |
| Tubes supplied | No | No | No | Yes | Yes | No | No |

Medico / Doctor Centrifuges



C - 852



R - 303



C - 854 / 8

Medico / Doctor Centrifuges

These are low priced units meeting the majority of the small capacity centrifuging requirements of medical practitioners, pathological laboratories and hospitals for routine centrifuging tests. The

units are fitted with resiliently mounted motor for vibration free performance having built in 5 step speed regulator. Available with Swing out or Angle rotor.

Technical Data

| Models | | C-852 | C-854/4 | C-854/6 | C-854/8 | R-303 | R-304 |
|--------------|-----|----------------|-----------------|---------|---------|-----------------|--------|
| Capacity | ml | 4 X 15 | 4 X 15 | 6 X 15 | 8 X 15 | 8 X 15 | 24 X 5 |
| Type of Head | | Swing Out | | | | Angle | |
| No. of Tubes | | 4 | 4 | 6 | 8 | 8 | 24 |
| Max. Speed | RPM | 3500 | 3500 | 3500 | 3500 | 3800 | 7000 |
| Max. RCF | 'g' | 1750 | 1850 | 1600 | 1600 | 1450 | 4760 |
| W X D X H | mm | 295 x 295 x 25 | 310 x 310 x 295 | | | 210 x 210 x 250 | |

Supply: 220-240 Volts, 50 Hz Single Phase.

Mini Centrifuge



RM-02 Plus

Powerful and easy-to-use RM 02 Plus mini centrifuges are small enough so that each workstation can be equipped with a personal centrifuge. Extremely compact footprint saves valuable bench space

Salient Features :

- Brushless DC (BLDC) Motor
- Settable speed (upto 6000 RPM) and time (upto 99 minutes). digital display can process upto 8 microtubes of 1.5/2 ml at a time
- Unique Closed rotor reduces friction to ensure better airflow, low heat generation & whisper quiet operation
- Electronic brake for immediate stop on lid opening for user safety
- Save time by doing quick runs by simple opening and closing the lid
- User calibration facility
- Carbon isolation feature (dust does not enter rotor chamber)
- Replaceable strip rotor & adaptors for 0.2 ml & 0.4/0.5 ml microtubes

Technical Data

| Specifications | RM-02 Plus |
|---|---|
| Rotor Capacity | 8 place closed rotor for 1.5/2.0ml microtubes |
| Speed RPM / RCF (g) | 6000/2000 g |
| Digital Display | Yes |
| Electronic Safety Brake | Yes |
| Noise Level | ≤ 55 dB |
| Power Supply | Universal (95 to 230V, 50/60Hz) |
| Dimensions (WxDxH) in mm | 162 x 157 X 115 mm |
| Rubber suction pads | Yes |
| Rotors and Adaptors (included in standard pack) | 8 Slot x 1.5/2.0 ml Closed Rotor PCR Strip Rotor (2 x 8 x 0.2 ml) Reduction Adaptors for 0.2 / 0.4 ml microtubes |

Supply: 220-240 Volts, 50 Hz Single Phase.



RM-03 Plus

Salient Features

- Microprocessor controlled with last run memory feature
- Large back - lit LCD display shows multiple parameters at a time
- Brushless DC motor - maintenance free, delivers better power to weight ratio and fit for extended runs
- Imbalance detection with auto cut off
- Lid lock safety - Lid opens automatically on run completion
- Intuitive simple interface for quick and convenient setting
- 1 to 999 Mins countdown timer with Min sec display
- One touch Short- Spin operation
- Extremely compact footprint saves valuable bench space-suitable for use in fume hoods or cold rooms
- Unique airflow design - ensures lesser heat generation and lesser noise
- Rotor, inner centrifuge lid and lid latch are made of metal for maximum operational safety
- Soft - touch lid closure for ergonomic lid locking
- Settable RPM/RCF

| Technical Data | |
|--|--|
| Specifications | RM-03 Plus |
| Rotor Capacity | 12 place closed rotor with metal safety lid |
| Maximum Speed RPM / RCF (g) | 15000 rpm / 15596 g |
| Display | Large Backlit LCD display |
| Imbalance detection | Imbalance Detection with auto cut - off |
| Noise Level | ≤ 60 dB |
| Motor Type | (BLDC) Brushless DC motor |
| Timer setting | 1 to 999 mins |
| Speed / Time setting | 500 to 15000 RPM / Min-Sec timer |
| Dimensions (WxDxH) in mm | 230 x 262 x 131 mm |
| Rotors and Adaptors (included in standard pack) | 12 place x 1.5/2.0 ml microtubes |
| | Reduction Adaptors for 0.2 ml microtubes |
| | Reduction Adaptors for 0.4/0.5 ml microtubes |
| | PCR Strip Rotor (2 x 8 x 0.2 ml with metal safety lid) |

Supply: 220-240 Volts, 50 Hz Single Phase.

Compact Laboratory Centrifuges

R - 4C Compact model for routine work in medical and industrial laboratories has digital speed indicator and 0-60 minute digital countdown timer.

Salient Features :

- Stepless speed regulator
- Safety Lid interlock to prevent cover opening during centrifugation
- Wide choice of Swing out / Angle rotors and reduction adaptors

| Technical Data | | |
|----------------|-----|-----------------|
| Models | | R-4C |
| Max. Speed | rpm | 4400 |
| Max. RCF | 'g' | 2350 |
| Max. Capacity | ml | 200 |
| W x D x H | mm | 330 x 370 x 295 |

Supply: 220-240 Volts, 50 Hz Single Phase.



R-4C

| Rotor Head Listing | | | | Reduction Adaptors (With Glass Tubes) | | | | | |
|--|----------|------------|----------|---------------------------------------|----------|-------------|---------|---------|---------|
| Models | Capacity | Max. Speed | Max. RCF | RA-501 | RA-502 | RA-151 | RA-152 | RA-153 | RA-154 |
| | | RPM | 'g' | (1X15ml) | (1X30ml) | (1Xwintrob) | (1X3ml) | (1X5ml) | (1X8ml) |
| Swing out Heads (with glass tubes) | | | | | | | | | |
| R-41 | 8 X 15ml | 3500 | 1850 | X | X | ✓ | ✓ | ✓ | ✓ |
| R-42 | 4 X 50ml | 3500 | 1850 | ✓ | ✓ | X | X | X | X |
| Angle Heads (with polypropylene tubes) | | | | | | | | | |
| R-43 | 8 X 15ml | 4400 | 2200 | X | X | ✓ | ✓ | ✓ | ✓ |
| R-44 | 4 X 50ml | 4200 | 2350 | ✓ | ✓ | X | X | X | X |

Special Purpose Centrifuge

R-8K Centrifuge incorporates stepless Speed Regulator, digital Timer and speed meter. It has been designed specifically to suit the following special applications.

- 1) Testing Diesel Fuel Filters for determination of dust concentrate as per IS: 3351:1991. Useful for fuel filters for testing the purity and suitability of the oil.
- 2) Test of Infant Milk Food as per IS:1547:1985 for determination of solubility index in Infant Milk Foods.
- 3) For determination of Insolubility Index of dried milk and dried Milk products as per IS: 12759:1989.
- 4) For determination of Sulphates in Chrome solution.

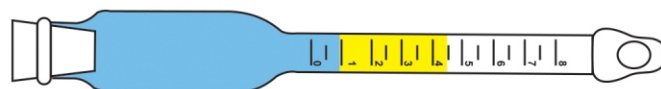
| Technical Data | | |
|----------------|-----|-----------------|
| Max. Speed | rpm | 4800 |
| Max. RCF | 'g' | 3730 |
| Max. Capacity | ml | 200 |
| W x D x H | mm | 400 x 420 x 315 |

Supply: 220-240 Volts, 50 Hz Single Phase.

| Rotor Heads Listing | | | |
|---------------------|---|----------------|--------------|
| Models | Description | Max. Speed RPM | Max. RCF 'g' |
| R-80 | 8 place Swing Out Rotor with Glass Tubes suitable for determination of Dust concentrate in Diesel Fuel Filters | 4400 | 3240 |
| R-86 | 4 place Swing Out Rotor with Glass Tubes suitable for determination of Solubility index in infant milk foods & insolubility index of dried milk & dried milk products | 4800 | 3730 |
| R-87 | 4 place Swing Out Rotor with Glass Tubes suitable for determination of sulphate in chrome plating solution | 4300 | 3260 |



Butyrometer in compliance with DIN 12836/ BIS 1223:2001 for determining fat content according to Gerber's method



Gerber Instruments founded by Dr. Niklaus Gerber is a pioneer for the quality determination of fat in milk and dairy products and solubility of milk powder according to Gerber for more than 120 years. The Gerber method is being used as reference method to determine the fat content worldwide. REMI is proud to be associated with Gerber to offer REMI-Gerber Centrifuge for the dairy industry

For the determination of fat and fat extraction, centrifuges are the basic equipment in every laboratory. With this centrifuge, these tests can be carried out

- Fat determination according to Gerber
- Fat extraction according to Roese-Gottlieb and Mojonnier
- Solubility determination according to Gerber and ADPI

Specifications :

- Timer 0 to 99 minutes
- Automatic brake
- Heating with variable temperature setting (1000 W)
- Microprocessor control with digital reading
- Cover lock
- Inclusive of rotor to accommodate 12 butyrometers (not supplied)

| Technical Data | |
|----------------------|------------------------------|
| Model No. | Micro III |
| Control | Microprocessor control |
| Timer | 0 to 99 minutes |
| Power | 220 to 240V |
| Frequency | 50 Hz |
| Heating | 1000 W adjustable up to 65°C |
| Dimension (WxDxH) mm | 430 x 460 x 280 |
| Weight | 32 kg |

Supply: 110 Volts / 220-240 Volts 50 Hz Single Phase.

Note:

This centrifuge can be used with butyrometers of any make

Laboratory Centrifuges model **R-8C** is suitable for routine sample analysis in Medical, Hospital, Pathology and Institutional laboratories. With a wide choice of rotor heads and adaptors, this unit are truly versatile.

Micro Centrifuges model **RM-12C** is 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 :

- Digital Speed Indicator
- Stepless speed regulator
- 0-99 minutes digital countdown timer
- Imbalance detector with cut off
- Safety Lid interlock to prevent cover opening during centrifugation
- Press Switch for quick acceleration to full speed (RM-12C)



R - 8C

| Technical Data | | | |
|----------------|-----|-----------------|-----------------|
| Models | | R-8C | RM-12C |
| Max. Speed | rpm | 5250 | 16000 |
| Max. RCF | 'g' | 300 | 16600 |
| Max. Capacity | ml | 300 | 40 |
| W x D x H | mm | 365 x 415 x 350 | 280 x 350 x 290 |

Supply: 220-240 Volts 50 Hz Single Phase.

Laboratory / Micro Centrifuges



R-8C BL

Laboratory Centrifuges model **R-8C BL** is suitable for routine sample analysis in Medical, Hospital Pathology and Institutional laboratories.

Salient Features :

- 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
- 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 BL |
| Max. Speed | rpm | 6000 |
| Max. RCF | 'g' | 5070 |
| Max. Capacity | ml | 400 |
| Digital timer range | Min | 0-59 |
| W x D x H | mm | 380 x 470 x 300 |

Supply: 220-240 Volts 50 Hz Single Phase.

Laboratory / Micro Centrifuges

Rotor Heads Listing for R-8C / R-8C BL

| Models | Capacity | Max. Speed RPM | Max. RCF 'g' | Max. Speed RPM | Max. RCF 'g' | Models | Capacity | Max. Speed RPM | Max. RCF 'g' | Max. Speed RPM | Max. RCF 'g' |
|--|----------|-------------------|-----------------|-------------------|-----------------|--|----------|-------------------|-----------------|-------------------|-----------------|
| | | R-8C BL | | R-8C | | | | R-8C BL | | R-8C | |
| Swing out Heads (with graduated glass tubes) | | | | | | Angle Heads (with polypropylene tubes) | | | | | |
| R-81 | 16x15 ml | 4500 | 3485 | 4000 | 2750 | R-83 | 16x15 ml | 5250 | 4280 | 5250 | 3600 |
| R-81 A | 12x15 ml | 4500 | 3485 | 4000 | 2750 | R-83 A | 12x15 ml | 5250 | 4280 | 5250 | 3600 |
| R-81 B | 8x15 ml | 4500 | 3440 | 4200 | 3000 | R-83 B | 8x15 ml | 6000 | 4700 | 5250 | 3600 |
| R-82 | 6x50 ml | 4500 | 3530 | 4000 | 2800 | R-84 | 6x50 ml | 6000 | 4700 | 5250 | 3600 |
| R-82 A | 4x50 ml | 4500 | 3485 | 4000 | 2750 | R-84 A | 4x50 ml | 6000 | 4700 | 5250 | 3600 |
| R-90 {with Bisafety cap} | 4x100 ml | 4000 | 2500 | - | - | R-88 | 4x100 ml | 6000 | 4550 | - | - |
| | | | | - | - | R-89 | 24x15 ml | 6000 | 5070 | - | - |

Reduction Adaptors for R-8C / R-8C BL

| Models | Capacity | R-81 | R-81A | R-81B | R-82 | R-82A | R-83 | R-83A | R-83B | R-84 | R-84A | R-88 | R-89 | R-90 |
|--|---------------------------------|------|-------|-------|------|-------|------|-------|-------|------|-------|------|------|------|
| RA-151 | 1 x wintrob | ✓ | ✓ | ✓ | X | X | ✓ | ✓ | ✓ | X | X | X | X | X |
| RA-152 | 1 x 3ml | ✓ | ✓ | ✓ | X | X | ✓ | ✓ | ✓ | X | X | X | ✓ | X |
| RA-153 | 1 x 5ml | ✓ | ✓ | ✓ | X | X | ✓ | ✓ | ✓ | X | X | X | ✓ | X |
| RA-154 | 1 x 8ml | ✓ | ✓ | ✓ | X | X | ✓ | ✓ | ✓ | X | X | X | ✓ | X |
| RA-155 | 1 x 4ml | ✓ | ✓ | ✓ | X | X | ✓ | ✓ | ✓ | X | X | X | ✓ | X |
| RA-156 | 1 x 6ml | ✓ | ✓ | ✓ | X | X | ✓ | ✓ | ✓ | X | X | X | ✓ | X |
| RA-157 | 1 x 50ml | X | X | X | X | X | X | X | X | X | X | X | X | ✓ |
| RA-158 | 1 x 30ml | X | X | X | X | X | X | X | X | X | X | X | X | ✓ |
| RA-160 | 1 x 15ml | X | X | X | X | X | X | X | X | X | X | ✓ | X | X |
| RA-161 | 1 x 50ml | X | X | X | X | X | X | X | X | X | X | ✓ | X | X |
| RA-166 | 3 x 15ml | X | X | X | X | X | X | X | X | X | X | ✓ | X | ✓ |
| RA-501 | 1 x 15 ml | X | X | X | ✓ | ✓ | X | X | X | ✓ | ✓ | X | X | X |
| RA-502 | 1 x 30ml | X | X | X | ✓ | ✓ | X | X | X | ✓ | ✓ | X | X | X |
| Suitable for Falcon Tubes (without tubes) | | | | | | | | | | | | | | |
| RA-501F | 1 x 15ml | X | X | X | ✓ | ✓ | X | X | X | ✓ | ✓ | X | X | X |
| RA-160F | 1 x 15ml | X | X | X | X | X | X | X | X | X | X | ✓ | X | ✓ |
| RA-161F | 1 x 50ml | X | X | X | X | X | X | X | X | X | X | ✓ | X | ✓ |
| Suitable for Vacutainer Tubes (without tubes) | | | | | | | | | | | | | | |
| RA-162 | 1 x upto 5ml (75 mm long) | ✓ | ✓ | ✓ | X | X | X | ✓ | X | X | X | X | X | X |
| RA-163 | 1 x upto 6ml (100 mm long) | ✓ | ✓ | ✓ | X | X | X | ✓ | X | X | X | X | X | X |
| RA-164 | 1 x upto 10 ml (100 mm long) | X | X | X | ✓ | ✓ | X | X | X | ✓ | ✓ | X | X | X |
| RA-167 | 4 x upto 6ml (100 mm long) | X | X | X | X | X | X | X | X | X | X | ✓ | X | ✓ |
| RA-168 | 3 x upto 10 ml (100 mm long) | X | X | X | X | X | X | X | X | X | X | ✓ | X | ✓ |

Rotor Heads Listing for RM-12C

| Models | Capacity | Max. Speed RPM | Max. RCF 'g' |
|--------------------|--|----------------|--------------|
| RM-1210 | Micro Hematocrit Rotor for 24 Capillaries (75 X 1 mm) | 12000 | 15300 |
| RM-1211 | Micro Hematocrit Rotor for 12 capillaries (QBIC -II Plus) | 12000 | 15300 |
| RM-1212 | Heparinized capillary tubes (75mm x 1 mm bore) | | |
| RM-1213 | Reading Device for RM-1210 | | |
| Angle heads | | | |
| RM-1214 | 10 X 2ml with Glass Tubes & reduction adaptors of 1ml & 0.5ml | 16000 | 16600 |
| RM-1215 | 24 X 1.5ml with Tapered bottom Polypropylene tubes & reduction adaptors of 1ml & 0.4ml | 11850 | 12715 |
| RM-1216 | 8 X 5ml with round bottom Polypropylene tubes & reduction adaptors of 4ml & 2ml | 11850 | 12715 |
| RM-1217 | 4 strips of 8 X 0.2ml (PCR Strip Tubes) | 12000 | 11910 |

**ZERO
COMPROMISE MODELS**

- BRUSHLESS
- ECONOMICAL





LCD Display



LED 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 | 0-99 |
| Noise | | ≤ 60 dB | ≤ 60 dB |
| WxDxH | mm | 380x470x300 | 380x470x300 |

Supply: 220-240Volts 50 Hz Single Phase.

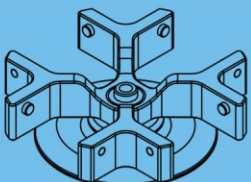












Nomenclature method of Rotors & accessories

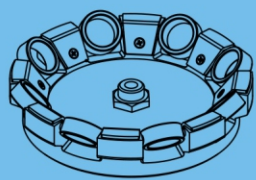







| Alphabets in beginning | Numbers in middle |
|------------------------|--|
| A= Fixed angle rotor | 1st numerical = Quantity per insert |
| S= Swing out rotor | 2nd numerical = Tube capacity (ml) |
| B= Bucket | |
| RA= Reduction adaptor | |
| Examples | |
| S 4-100 | (Swing out rotor, 4 tubes of 100ml 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) |

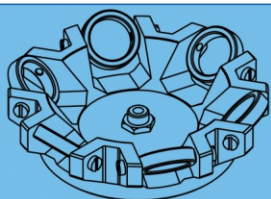
Swingout Rotors (except S 4-100) & Angle Rotors are supplied with suitable SS tubes as carriers

| 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 |

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

|  Swing Out Rotor S 4-100 Max. Speed RPM 4000 Max RCF (g) 2500 | | Metal Buckets suitable for Swing Out Rotor S 4-100 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | B 100 | | | | B 9-5 | | | |
| | |   | | | |  | | | |
| 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 |
| Ø 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 | 1 | 3 | 4 | 9 |
| No of tubes/rotor | 4 | 4 | 4 | 4 | 12 | 4 | 12 | 16 | 36 |

| Swing Out Rotor S 8-15 Max. Speed RPM 4500 Max RCF (g) 3440  | | 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 |
| | | Ø 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 |

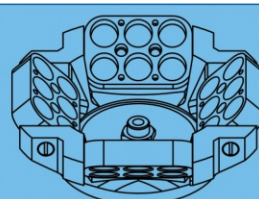


Swing Out Rotor S 6-50

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

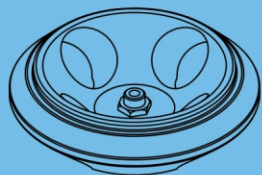
| Image of Tube | | | | | | |
|--------------------|----------|----------|-------------|---------|-------------------|---------|
| Tube Capacity (ml) | 15 | 8 | 6 | 5 | 5 | 3 |
| Type of Tube | Glass | Glass | Vacutainer® | Glass | Vacutainer® short | Glass |
| Ø x L (mm) | 17 x 110 | 12 x 100 | 12.5 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 | 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 |

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 AR 6-50

Max. Speed RPM 6000

Max RCF (g) 4700

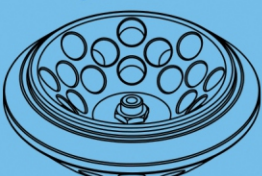


| Image of Tube | | | | | |
|--------------------|----------|----------|----------|------------|-------------|
| Tube Capacity (ml) | 50 | 30 | 15 | 15 | 10 |
| Type of Tube | Plastic | Glass | Glass | Falcon® | Vacutainer® |
| Ø x L (mm) | 30 x 100 | 24 x 110 | 17 x 110 | 16.5 x 120 | 15.5 x 106 |
| 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

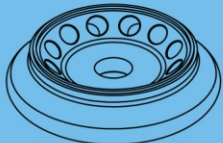




Max. Speed RPM 6000

Max RCF (g) 5070

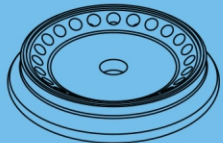





| Image of Tube | | | | | | |
|--------------------|----------|----------|-------------|---------|-------------------|---------|
| Tube Capacity (ml) | 15 | 8 | 6 | 5 | 5 | 3 |
| Type of Tube | Plastic | Glass | Vacutainer® | Glass | Vacutainer® short | Glass |
| Ø x L (mm) | 17 x 102 | 24 x 100 | 12.5 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 |

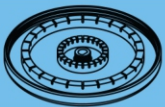
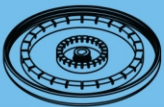
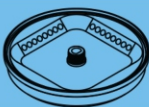



(Rotor supplied with all suitable inserts)

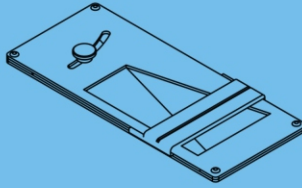
| | | | | |
|--|--------------------|---|---|---|
| Angle Rotor AR 24-2 Max speed RPM 15000 Max RCF (g) 21000  | Image of Tube |  |  |  |
| | Tube Capacity (ml) | 1.5 | 1 | 0.4 |
| | Type of Tube | Micro | Micro | Micro |
| | Insert Cat No. | No | RE 2-1 | RE 2-04 |
| | No of tubes/insert | 1 | 1 | 1 |
| | 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 |



Microprocessor Research Centrifuges

Compufuges model PR - 23 & PR - 24 are Microprocessor controlled centrifuges used in auxiliary laboratories in industry, Educational & Research institutions, Bio Technology, Medical Laboratories, Hospitals, Blood Banks, Pharmaceutical laboratories and agriculture soil testing for determination of moisture equivalent of soil. It is also suitable for determination of settlement of paints, pastes, cosmetics and food products. Centrifuge rotors & carriers are also suitable for use with variety of Falcon & Vacutainer tubes.

PR - 23 & PR - 24 have soft touch keypads for fast and accurate setting of run parameters. Basic runs are easy with setting of speed, time, temperature, brake. Press 'start' key and Compufuge does the rest for you.

Brushless induction motor with frequency drive & unique automatic rotor identification ensures accurate speed setting for individual rotors. Over current overheating safety cutoff circuit is provided for motor protection. Safety lid interlock on the centrifuge ensures that the rotor does not run with LID open while the LID cannot be opened unless rotor comes to complete halt.

Salient Features :

- User friendly microprocessor control with LED display
- Menu driven ten programme memory
- Choice of high brake, low brake and coasting
- Imbalance detector with Auto cutoff
- Safety lid interlock to prevent cover opening during centrifugation
- Automatic unique safety rotor identification system
- Speed holding accuracy 100 RPM
- Self-diagnosis for errors

Revolutionary Research Centrifuges

R - 23 & R 24 centrifuges are widely used in auxiliary laboratories in industry, Educational & Research institutions, Bio Technology, Medical Laboratories, Hospitals, Blood Banks, Pharmaceutical laboratories, Agriculture & Soil testing for determination of moisture equivalent of soil. It is also suitable for determination of settlement of paints, pastes, cosmetics and food products. Centrifuge rotors & carriers are also suitable for use with variety of Falcon & Vacutainer Tubes.

Salient Features :

- Stepless speed regulator with zero start interlock
- Digital speed indicator
- Dynamic brake
- 0-99 minutes digital count down timer
- Imbalance detector with cutoff
- Safety lid interlock to prevent cover opening during centrifugation

| Technical Data | | | | | |
|----------------|-----|-----------------|-------|-----------------|-------|
| Models | | R-23 | R-24 | PR-23 | PR-24 |
| Max. Speed | rpm | 6900 | 17300 | 7000 | 20000 |
| Max. RCF | 'g' | 7350 | 27440 | 7560 | 37570 |
| Max. Tube size | ml | 200 | 100 | 250 | 100 |
| Max. Capacity | ml | 1200 | 400 | 1200 | 400 |
| W x D x H | mm | 400 x 500 x 455 | | 400 x 500 x 440 | |

Supply: 220 - 240 Volts 50 Hz Single Phase.

Rotor Heads Listing For R - 23 & PR - 23

| Models | Capacity | Type of Rotor | Type of Container | R-23 | | PR-23 | |
|--|-----------------|---------------|-------------------|-------------|---------|-------------|---------|
| | | | | Speed (RPM) | RCF 'g' | Speed (RPM) | RCF 'g' |
| R-230 + R-231 | 4 X 200 ml | SWING OUT | GLASS | 4800 | 4000 | 5100 | 4500 |
| R-230B + R-233B | 108 X 5ml (RIA) | SWING OUT | RIA PLASTIC TUBES | 5000 | 3830 | 5100 | 3980 |
| R-234 | 4 X 250ml | SWING OUT | PLASTIC | X | X | 5500 | 5070 |
| R-235 | 8 X Microtiter | SWING OUT | 96 WELL | X | X | 3200 | 1470 |
| R-230A | 2 X Microtiter | SWING OUT | 96 WELL | 3200 | 1470 | 3200 | 1470 |
| R-236 | 6 X 200ml | ANGULAR | PLASTIC | 6900 | 7350 | 7000 | 7560 |
| R-237 | 8 X 100ml | ANGULAR | PLASTIC | 6900 | 6700 | 7000 | 6900 |
| R-238 | 12 X 50ml | ANGULAR | PLASTIC | 6900 | 6970 | 7000 | 7450 |
| R-239 | 36 X 15ml | ANGULAR | PLASTIC | 6900 | 7240 | 7000 | 7340 |
| Angle Heads suitable for Falcon tubes (without Tubes) | | | | | | | |
| R-238F | 12 X 50ml | ANGULAR | FALCON | 6900 | 6970 | 7000 | 7450 |
| R-239F | 24 X 15ml | ANGULAR | FALCON | 6900 | 7240 | 7000 | 7340 |

Reduction Adaptors For Swing Out Head (R-230 + R-231)

Suitable for Glass Tubes (with tubes)

| Models | Tube Capacity | No. of Tubes Per Adaptor | Total No. of Tubes |
|---------|---------------|--------------------------|--------------------|
| RA-2311 | 100ml | 1 | 4 |
| RA-2312 | 50ml | 1 | 4 |
| RA-2313 | 30ml | 3 | 12 |
| RA-2314 | 15ml | 7 | 28 |

Suitable for Vacutainer Tubes (without tubes)

| | | | |
|---------|-------------------------|---|----|
| RA-2315 | Up to 4ml (100mm long) | 6 | 24 |
| RA-2316 | Up to 10ml (100mm long) | 5 | 20 |
| RA-2317 | Up to 5ml (75mm long) | 6 | 24 |

Reduction Adaptors for Swing Out Head (R-234)

Suitable for Glass Tubes (with tubes)

| Models | Tube Capacity | No. of tubes per Adaptor | Total no. of Tubes |
|---------|---------------|--------------------------|--------------------|
| RA-2341 | 50 ml | 1 | 4 |
| RA-2342 | 25 ml | 3 | 12 |
| RA-2343 | 15 ml | 5 | 20 |
| RA-2344 | 5 ml | 13 | 52 |

Rotor Heads Listing For R-24 & PR-24

| Models | Capacity | Type of Rotor | Type of Container | R-24 | | PR-24 | |
|--|-----------------------|---------------|-------------------|-------------|---------|-------------|---------|
| | | | | Speed (RPM) | RCF 'g' | Speed (RPM) | RCF 'g' |
| R-246A | 4 X 25 ml | SWING OUT | GLASS | 9300 | 8700 | 11000 | 12180 |
| R-241 | 4 X 100 ml | ANGULAR | PLASTIC | 11000 | 14050 | 14500 | 23980 |
| R-242 | 6 X 50 ml | ANGULAR | PLASTIC | 12100 | 14240 | 16000 | 25180 |
| R-243 | 8 X 25 ml | ANGULAR | PLASTIC | 12500 | 14500 | 14500 | 20220 |
| R-244 | 12 X 15 ml | ANGULAR | PLASTIC | 12300 | 14710 | 16000 | 24600 |
| R-243A | 6 X 25 ml | ANGULAR | PLASTIC | 14100 | 17120 | 18000 | 28980 |
| R-244A | 8 X 15 ml | ANGULAR | PLASTIC | 15400 | 20150 | 18000 | 27530 |
| R-247 | 8 X 50 ml | ANGULAR | PLASTIC | 10800 | 13430 | 14500 | 24680 |
| R-248 | 24 X 1.5 ml | ANGULAR | PLASTIC | 17300 | 27440 | 20000 | 37570 |
| R-249 | 6strips of 8 X 0.2 ml | ANGULAR | PCR STRIP TUBES | 11000 | 12180 | 11000 | 12180 |
| Angle Heads suitable for Falcon tubes (without Tubes) | | | | | | | |
| R-244F | 12 X 15ml | ANGULAR | FALCON | 11000 | 14610 | 11000 | 14610 |
| R-247F | 8 X 50ml | ANGULAR | FALCON | 11000 | 14610 | 11000 | 14610 |

Compact Cooling Centrifuges Cooling Micro Centrifuges



Alpha numeric
LCD display

Bi-directional encoder
for setting



Compact Cooling Centrifuges

Cooling Micro Centrifuges

These newly developed compact bench top Cooling Centrifuges models CM-8 Plus and CM-12 Plus offers quiet operation with very small footprint.

Centrifuge model CM-8 Plus is suitable for routine sample analysis in Medical, Hospital, Pathology and Institutional laboratories. With a wide choice of rotor heads and adaptors, this unit is truly versatile.

Micro Centrifuge model CM-12 Plus is useful for routine applications in bio-technology, PCR, life sciences, bio-chemical and clinical labs etc. This unit is ideal for centrifugation with micro tubes from 0.2 ml upto 1.5 ml.

Salient Features :

- Stable speed output
- High Capacity (CM-8 Plus)
- High Speed (CM-12 Plus)
- Wide variety of rotors & reduction adaptors
- Precise temperature control up to -8°C
- Pre-cooling feature
- Fast spin feature
- Calibration window on lid for speed (rpm)
- Brushless Induction motor with variable frequency drive ensures gentle start
- Microprocessor based unit with alpha numeric LCD display
- Self-diagnosis of errors
- Parameters setting through easy to use bi-directional encoder
- Inverter fault detection with auto shutdown
- CFC free refrigeration system
- 24 programme memory
- 3 Accelerations, 4 Deceleration profiles
- Choice of rpm / rcf setting & display
- Operating panel with feather touch keys
- Digital countdown timer 0-99 minutes & continuous run
- Last set parameters recall (Useful for repetitive analysis)
- Automatic Rotor identification
- Safety lid interlock to prevent lid opening during centrifugation
- Imbalance detection & centrifugation stop with display of error
- Motor overload protection
- Gas hinge to prevent falling of door
- Emergency lid lock release

| Technical Data | | |
|------------------------|-----------------|------------|
| Models | CM-8 Plus | CM-12 Plus |
| Max. Speed (rpm) | 6000 | 16000 |
| Max. RCF (g) | 5070 | 16600 |
| Max. Tube Size (ml) | 100 | 5 |
| Max. Capacity (ml) | 400 | 40 |
| *Min. Temperature (°C) | -8 | -8 |
| #Noise | ≤ 60 dB | ≤ 60 dB |
| Dimensions WxDxH (mm) | 480 x 585 x 530 | |
| Voltage Stabilizers | VS - 02 | VS - 02 |

Supply: 220-240 Volts, 50 Hz Single Phase.

* Note : Depending on capacity, type of rotor centrifugation speed, ambient temperatures and other process parameters.

* Note : Measured as per standard protocol

| Rotors for CM-8 Plus | | | | |
|----------------------|------------|----------------------------------|----------|----------|
| Models | Capacity | Type of Container | MAX. RPM | MAX. RCF |
| Swing Out Rotors | | | | |
| R-90 M | 4 x 100 ml | Glass Tubes with Bio-safety Caps | 4000 | 2500 |
| R-81 M | 16 X 15 ml | Glass Tubes | 4500 | 3485 |
| R-81B M | 8 X 15 ml | Glass Tubes | 4500 | 3485 |
| R-82 AM | 4 X 50 ml | Glass Tubes | 4500 | 3485 |
| Angle Rotors | | | | |
| Models | Capacity | Type of Container | MAX. RPM | MAX. RCF |
| R-83 BM | 8 x 15ml | Polypropylene tubes | 6000 | 4700 |
| R-89 M | 24 x 15ml | Polypropylene tubes | 6000 | 5070 |
| R-84 M | 6 x 50ml | Polypropylene tubes | 6000 | 4700 |
| R-88 M | 4 x 100ml | Polypropylene tubes | 6000 | 4550 |

| Angle Rotors for CM-12 Plus | | | | |
|-----------------------------|---------------------------|---------------------|----------|----------|
| Models | Capacity | Type of Container | MAX. RPM | MAX. RCF |
| RM-1214 M | 10 x 2ml | Glass tubes | 16000 | 16600 |
| RM-1215 M | 24 x 1.5ml | Polypropylene tubes | 11850 | 12715 |
| RM-1216 M | 8 x 5ml | Polypropylene tubes | 11850 | 13500 |
| RM-1217 M | 4 x 8 PCR Strips of 0.2ml | Polypropylene tubes | 12000 | 11910 |

Compact Cooling Centrifuges

Cooling Micro Centrifuges

| Reduction Adaptors for CM-8 Plus | | | | | | | | | |
|--|---------------------------------|--------|---------|---------|---------|--------|--------|--------|--------|
| Models | Capacity | R-81 M | R-81 BM | R-82 AM | R-83 BM | R-84 M | R-88 M | R-89 M | R-90 M |
| RA-151 | 1 x wintrob | ✓ | ✓ | X | ✓ | X | X | X | X |
| RA-152 | 1 x 3ml | ✓ | ✓ | X | ✓ | X | X | ✓ | X |
| RA-153 | 1 x 5ml | ✓ | ✓ | X | ✓ | X | X | ✓ | X |
| RA-154 | 1 x 8ml | ✓ | ✓ | X | ✓ | X | X | ✓ | X |
| RA-155 | 1 x 4ml | ✓ | ✓ | X | ✓ | X | X | ✓ | X |
| RA-156 | 1 x 6ml | ✓ | ✓ | X | ✓ | X | X | ✓ | X |
| RA-157 | 1 x 50ml | X | X | X | X | X | X | X | ✓ |
| RA-158 | 1 x 30ml | X | X | X | X | X | X | X | ✓ |
| RA-160 | 1 x 15ml | X | X | X | X | X | ✓ | X | X |
| RA-161 | 1 x 50ml | X | X | X | X | X | ✓ | X | X |
| RA-166 | 3 x 15ml | X | X | X | X | X | ✓ | X | ✓ |
| RA-501 | 1 x 15 ml | X | X | ✓ | X | ✓ | X | X | X |
| RA-502 | 1 x 30ml | X | X | ✓ | X | ✓ | X | X | X |
| Suitable for Falcon Tubes (without tubes) | | | | | | | | | |
| RA-501F | 1 x 15ml | X | X | ✓ | X | ✓ | X | X | X |
| RA-160F | 1 x 15ml | X | X | X | X | X | ✓ | X | ✓ |
| RA-161F | 1 x 50ml | X | X | X | X | X | ✓ | X | ✓ |
| Suitable for Vacutainer Tubes (without tub | | | | | | | | | |
| RA-162 | 1 x upto 5ml (75 mm long) | ✓ | ✓ | X | X | X | X | X | X |
| RA-163 | 1 x upto 6ml (100 mm long) | ✓ | ✓ | X | X | X | X | X | X |
| RA-164 | 1 x upto 10ml (100 mm long) | X | X | ✓ | X | ✓ | X | X | X |
| RA-167 | 4 x upto 6ml (100 mm long) | X | X | X | X | X | ✓ | X | ✓ |
| RA-168 | 33 x upto 10ml (100 mm long) | X | X | X | X | X | ✓ | X | ✓ |



RM-1217 M
(4 x 8 PCR Strips of 0.2ml)



RM-1215 M
(24 x 1.5ml)



R-90 M
(4 x 100 ml with Bio-safety Caps)



R-81 M
(16 x 15 ml)

Specifications subject to change without notice

Refrigerated Centrifuges



Refrigerated Centrifuges

These Plus series Refrigerated Centrifuges are designed for centrifugation of temperature sensitive material and find application in routine and research work in auxiliary laboratories in industry, Educational & Research institutions, Bio Technology, Medical Laboratories, Hospitals, Blood Banks, Pharmaceutical & Clinical research laboratories.

All the centrifuges have rust proof, easy to clean Stainless Steel centrifuge inner chamber with steel guard. A wide variety of swing out and angle rotors

with a choice of reduction adaptors make these units truly versatile.

Users can select models as per their requirements from high volume low speed Centrifuges (C-23 Plus, CPR-23 Plus), low volume high speed centrifuges (C-24 Plus, CPR-24 Plus) in table top design & compact high-speed high volume (C-30 Plus, CPR-30 Plus) floor standing centrifuges.

| | Table Top Models | | | | Floor Models | |
|--|-----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|
| | High Volume Low Speed | | Low Volume High Speed | | High Volume High Speed | |
| | C-23 Plus | CPR-23 Plus | C-24 Plus | CPR-24 Plus | C-30 Plus | CPR-30 Plus |
| Programable compensation for true sample temperature | X | √ | X | √ | X | √ |
| Pre cooling | X | √ | X | √ | X | √ |
| Acceleration Profiles | low, high | 9 | low, high | 9 | low, high | 9 |
| Deceleration Profiles | Coasting, low, high | 9 & Coasting | Coasting, low, high | 9 & Coasting | Coasting, low, high | 9 & Coasting |
| Fast Spin | X | √ | X | √ | X | √ |
| Calibration window on lid for speed | √ | √ | √ | √ | √ | √ |
| Display | LED | LCD | LED | LCD | LED | LCD |
| Control Communication | Digital | Digital | Digital | Digital | Digital | Digital |
| Self-Diagnostics of errors | X | √ | X | √ | X | √ |
| Parameters setting switches | Feather touch keys | Bi-directional encoder | Feather touch keys | Bi-directional encoder | Feather touch keys | Bi-directional encoder |
| Brushless motor with frequency drive | √ | √ | √ | √ | √ | √ |
| Inverter fault detection with auto shut down | √ | √ | √ | √ | √ | √ |
| CFC free refrigeration system | √ | √ | √ | √ | √ | √ |
| No. of Programs | X | 99 | X | 99 | X | 99 |
| Last set parameters recall | √ | √ | √ | √ | √ | √ |
| Choice of rpm / rcf setting | RPM | RPM / RCF | RPM | RPM / RCF | RPM | RPM / RCF |
| Temperature display | °C | °C / °F | °C | °C / °F | °C | °C / °F |
| Digital countdown timer 0-99 min & Continuous run | √ | √ | √ | √ | √ | √ |
| Log of cumulative run time | X | √ | X | √ | X | √ |
| User defined program name | X | for 5 programs | X | for 5 programs | X | for 5 programs |
| Automatic door opening | √ | √ | √ | √ | √ | √ |
| Automatic Rotor Identification | √ | √ | √ | √ | √ | √ |
| Motor overload protection | √ | √ | √ | √ | √ | √ |
| Emergency lid lock release | √ | √ | √ | √ | √ | √ |
| Imbalance detection with centrifugation cut off | √ | √ | √ | √ | √ | √ |
| Password protection | X | √ | X | √ | X | √ |
| Gas Hinge to prevent door falling | √ | √ | √ | √ | √ | √ |

Refrigerated Centrifuges

| Technical Data | | | | |
|--------------------|-------|--------------------------|--------------------------|--------------------------|
| Models | | C-23 Plus CPR-23 Plus | C-24 Plus CPR-24 Plus | C-30 Plus CPR-30 Plus |
| Max. Speed | rpm | 7000 | 20000 | 20000 |
| Max. RCF | g' | 7400 | 37570 | 37570 |
| Max. Tube Size | ml | 250 | 100 | 250 |
| Max. Capacity | ml | 1200 | 400 | 1200 |
| Lowest Temp.* | °C | - 8 | - 8 | - 8 |
| #Noise | | ≤ 60 dB | ≤ 60 dB | ≤ 60 dB |
| W x D x H | mm | 830 x 650 x 500 | 775 x 575 x 475 | 660 x 765 x 945 |
| Voltage Stabilizer | model | VS-03 | VS-03 | VS-03 |

Supply: 220-240 Volts, 50 Hz Single Phase.

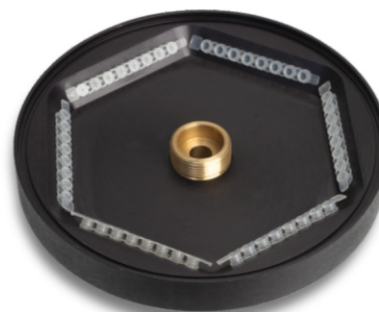
Note : Measured as per standard protocol

*Note : Depending on capacity, type of rotor, centrifugation speed, ambient temperatures and other process parameters.

| Rotor Heads Listing | | | | | | | | |
|--|------------------------|-------------------|--------------------------|---------|--------------------------|---------|--------------------------|---------|
| Models | Capacity | Container | C-23 Plus CPR-23 Plus | | C-24 Plus CPR-24 Plus | | C-30 Plus CPR-30 Plus | |
| | | | Speed (rpm) | RCF 'g' | Speed (rpm) | RCF 'g' | Speed (rpm) | RCF 'g' |
| Swing out Heads (with graduated glass tubes) | | | | | | | | |
| R-230 M + R-231 M | 4 x 200 ML | GLASS | 5100 | 4500 | X | X | 4500 | 3500 |
| R-234 M | 4 x 250 ML | PLASTIC | 5500 | 5070 | X | X | 4500 | 3500 |
| R-235 M | 8 X MICROTITOR | 96 WELL | 3200 | 1470 | X | X | 3200 | 1470 |
| R-230 BM+ R-233 BM | 108 x 5ML (RIA) | RIA PLASTIC TUBES | 5100 | 3980 | X | X | 4500 | 3500 |
| R-240 M | 16 x 50 ML | FALCON® | X | X | X | X | 3200 | 1775 |
| R-240 AM | 32 x 15 ML | FALCON® | X | X | X | X | 3200 | 1775 |
| R-246 AM | 4 x 25 ML | GLASS | X | X | 11000 | 12180 | 11000 | 12180 |
| Angle heads (with Polypropylene / Polycarbonate tubes) | | | | | | | | |
| R-236 M | 6 x 200 ML | PLASTIC | 7000 | 7400 | X | X | 7000 | 7400 |
| R-237 M | 8 x 100 ML | PLASTIC | 7000 | 7400 | X | X | 7000 | 7400 |
| R-238 M | 12 x 50 ML | PLASTIC | 7000 | 7400 | X | X | 7000 | 7400 |
| R-239 M | 36 x 15 ML | PLASTIC | 7000 | 7400 | X | X | 7000 | 7400 |
| R-241 M | 4 x 100 ML | PLASTIC | X | X | 14500 | 23980 | 14500 | 23980 |
| R-243 M | 8 x 25 ML | PLASTIC | X | X | 18000 | 31150 | 18000 | 31150 |
| R-244 M | 12 x 15 ML | PLASTIC | X | X | 18000 | 31150 | 18000 | 31150 |
| R-247 M | 8 x 50 ML | PLASTIC | X | X | 16000 | 30020 | 16000 | 30020 |
| R-248 M | 24 x 1.5 ML | PLASTIC | X | X | 20000 | 37570 | 20000 | 37570 |
| R-249 M | 6 strips of 8 x 0.2 ml | PLASTIC | X | X | 11000 | 12180 | 11000 | 12180 |
| Angle heads suitable for Falcon Tubes (without tubes) | | | | | | | | |
| R-238 MF | 12 x 50 ML | FALCON | 7000 | 7400 | X | X | 7000 | 7400 |
| R-239 MF | 24 x 15 ML | FALCON | 7000 | 7400 | X | X | 7000 | 7400 |
| R-244MF | 12 x 15 ML | FALCON | X | X | 11000 | 14610 | 11000 | 14610 |
| R-247MF | 8 x 50 ML | FALCON | X | X | 11000 | 14610 | 11000 | 14610 |

| Reduction Adaptors for Swing Out Head Model R-230 M + R-231 M | | | |
|---|----------------------------|--------------------------|--------------------|
| Suitable for Glass Tubes (with tubes) | | | |
| Models | Tube Capacity | No. of tubes per Adaptor | Total No. of Tubes |
| RA-2311 | 100 ml | 1 | 4 |
| RA-2312 | 50 ml | 1 | 4 |
| RA-2313 | 30 ml | 3 | 12 |
| RA-2314 | 15 ml | 7 | 28 |
| Suitable for Vacutainer Tubes (without tubes) | | | |
| RA-2315 | Upto 4 ml (100 mm long) | 6 | 24 |
| RA-2316 | Upto 10ml (100 mm long) | 5 | 20 |
| RA-2317 | Upto 5ml (75 mm long) | 6 | 24 |

| Reduction Adaptors for Swing Out Head Model R-234 M | | | |
|---|---------------|--------------------------|--------------------|
| Suitable for Glass Tubes (with tubes) | | | |
| Models | Tube Capacity | No. of tubes per Adaptor | Total No. of Tubes |
| RA-2341 | 50 ml | 1 | 4 |
| RA-2342 | 25 ml | 3 | 12 |
| RA-2343 | 15 ml | 5 | 20 |
| RA-2344 | 5 ml | 13 | 52 |



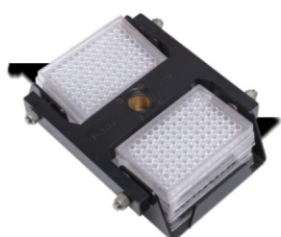
R-249 M
(6 strips of 8 x 0.2ml)



R-248 M
(24 x 1.5ml)



R-230 M + R-231 M
(4 X 200 ml)



R-235 M
(8 x MICROTITOR)



R-247 M
(8 x 50 ml)



KPR -70 Plus is a new generation Centrifuge with built in system for storage of centrifugation data. These Centrifuges are used in clinical laboratories, pharmaceutical industries, research laboratories, general biochemical work etc.

Advance manufacturing techniques are used for mounting of new Brushless induction drive motor resulting in low level of vibration and noise with smooth acceleration / deceleration. The durable high capacity refrigeration system maintains precise operating temperature.

Microprocessor Controller

KPR - 70 Plus has user-friendly controls that make setup & Operation mode simple like Setting of RPM or RCF, Temperature, Timer, Acceleration, Deceleration etc. Soft touch keypad with large LCD display panel is located at the front.

KPR 70 plus stores & recalls up to 51 programs that can be programmed. User friendly microprocessor controller allows interactive menu driven

programming & keeps the operator continuously informed of the centrifuge operation status.

Unique facility for setting and controlling the centrifuge run either by rpm (speed) or RCF (g force), eliminating the need of calculations & can set timer from 1 minute to 99 minutes & also has 9 Acceleration & 10 Deceleration profiles for smooth & jerk free run for optimum yield under different applications.

Data Acquisition System

KPR-70 Plus has a built in system to collect all data of the centrifugation process. The data from the centrifuge transferred to Personal Computer using a data interface like Operator code, process type, Time, Temp., RPM, RCF, Acceleration, Deceleration & Status of the process etc. can be acquired.

Salient Features :

- Menu driven 51 program memory
- Programmable centrifugation parameters for accurate control
- Tamper proof memory with key lock
- Lid closing & opening with the help of Gas Hinges.
- Safety lid-interlock to prevent LID opening during centrifugation
- Unbalance cut-off with indication
- Simultaneous display of set & run parameters

| Technical Data | | |
|--------------------|-------|-----------------|
| Models | | KPR-70 PLUS |
| Max. Speed | rpm | 4400 |
| Max. rcf | 'g' | 5230 |
| W X D X H | mm | 805 X 905 X 960 |
| Lowest Temp. | °C | 0 |
| Connected load | KVA | 6 |
| Voltage Stabilizer | Model | VS-06 |

Supply: 220-240 Volts 50 Hz Single Phase.

Rotors Heads Listing

| Rotors Heads Listing | | | |
|----------------------|--|-------------|---------|
| Models | Description | KPR-70 PLUS | |
| | | Speed (rpm) | RCF 'g' |
| K-731 | 6 place wind shield swing out rotor with a set of 6 metal carriers each with capacity of 1000 ml. suitable for bottles with 1000 ml polypropylene bottles. | 4200 | 5230 |
| Angle Rotors | | | |
| K-905 | Angle rotor 6 x 500 ml with polypropylene bottles. | 4400 | 3780 |
| K-906 | Angle rotor 8 x 250 ml with polypropylene tubes. | 4400 | 3700 |
| K-907 | Angle rotor 12 x 100 ml with polypropylene tubes. | 4400 | 3520 |
| K-908 | Angle rotor 16 x 50 ml with polypropylene tubes. | 4400 | 3570 |
| K-909 | Angle rotor 36 x 25 ml with polypropylene tubes. | 4400 | 3610 |
| K-910 | Angle rotor 72 x 15 ml with polypropylene tubes. | 4400 | 3630 |

Microplate Shaker



MPS 1

The Digital Microplate Shaker is an essential instrument for mixing individual micro plates of different type

Salient Features :

- Tiny footprint-as small as the plate itself
- Digital Display with Speed & Time setting
- Speed selection from 300 to 1800 RPM
Maintenance free BLDC motor
- Orbital Diameter of 2 mm for thorough mixing, microprocessor controlled for high accuracy
- Silent & stable operation
- Timer setting of to 99 min & Continuous mode
- A Special turn down toggle clamp for spill proof & simple side in/side out for loading / unloading of microplate
- Universal fit-comes with interchangeable clamps for different micro plates (Tool free and easy clamp change procedure)
- Even mixing in all wells across the plate
- Comes With attachment for 20 x 1.5/2ml microtubes
- Can be used inside fume hoods / cold rooms

Technical Data

| Specifications | Microplate Shaker |
|------------------------|---|
| Speed setting | 300 to 1800 RPM |
| Orbital diameter | 2 mm |
| Motor type | Brushless DC motor |
| Timer setting | Up to 99 mins + infinite mode |
| Display | Digital display of LED Speed & Time |
| Power supply | Universal (100 to 230V, 50/60 Hz) |
| Dimensions (W x D x H) | 127 x 85 x 86 mm |
| Weight | 1.4 Kg |
| Standard attachments | 1) 20 x 1.5/2.0 ml Microtubes (foam) 2) Replaceable clamps to use different types of standard micro plates |

Supply: 220-240 Volts, 50 Hz Single Phase.

Tube Roller Mixer

SeroRoll-6 is specially designed to achieve uniform consistency in serological samples, eventually helps in increasing the sensitivity of the planned testing. Rolling bed of SeroRoll-6 is designed to mix all size samples in blood sample tubes, falcon tubes, culture bottles, etc.

Salient Features :

- Gentle ROCKING and ROLLING system for optimum mixing
- Suitable for mixing blood sample and viscous substance
- Brushless DC motor for quiet operation and maintenance free long life
- Removable rollers for proper cleaning
- Adjustable roller rod spacing to hold different diameter tubes
- Adjustable speed ranging from 10 to 100 RPM
- Adjustable timer ranging from 0 min to 99 mins and infinite
- Pulse mode
- Error indication for overloading of samples



Seroroll-6

Technical Data

| Specifications | Seroroll-6 |
|---------------------------|--------------------------------|
| Motor Type | BLDC motor |
| Motion | Rocking and rolling |
| Max. Loading capacity | 2 Kg. |
| Number of tubes | 15 x 7 ml Blood Tubes |
| Roller size | 30 x 327 mm |
| Speed range | 10 to 100 RPM |
| Timer range | 0 to 99min. |
| Operation type | Continuous and timed operation |
| Tilt angle | 3° |
| Dimensions (W x D x H) mm | 496 x 107 x 292 |

Supply: 220-240 Volts, 50 Hz Single Phase.

Mini Rotary Shakers

Mini Rotary Shakers



RS-12R

RS-12 Plus

For gentle mixing of fluids in test tubes & glass vessels of different capacities. These shakers find applications in pathology, microbiology, chemistry, molecular biology & biotechnology.

Model **RS-12 Plus / RS-18 Plus** shakers have Brush less DC (BLDC) Motor having a wide speed range upto 400 rpm. A universal platform is with adjustable rollers and is also suitable to accommodate interchangeable clamps of assorted sizes / capacities for holding conical flasks, making the unit truly versatile in performance. A variety of clamps are available having capacity of 500 ml, 250 ml, 150 ml and 100 / 50 ml **(To be ordered separately)**

Model **RS-12R** shakers are with AC/DC Universal motor with maximum speed of 180 rpm & with in built speed regulator. These shakers have platform with 3 adjustable rollers.

| Technical Data | | | | |
|--------------------------|----------------|-----------------|-----------------|-----------------|
| Model | | RS-12 R | RS-12 Plus | RS-18 Plus |
| Speed Range | rpm | 80 to 180 | 50 to 400 | 50 to 250 |
| Platform Size | inches | 7 x 11 | 12 x 12 | 20 x 20 |
| Flasks Capacity (max) | | - | 5 x 500 ml | 13 x 500 ml |
| Overall Dimensions | W x D x H (mm) | 270 x 260 x 156 | 320 x 415 x 130 | 520 x 613 x 155 |
| Speed Indicator | | Digital | Digital | Digital |
| Digital Count down Timer | minutes | 15 | 99 | 99 |
| Shaking Orbit | mm | 10 | 10 | 10 |

Supply: 220-240 Volts, 50 Hz Single Phase.

Rotary Shakers



RS - 36 BL

These Shakers are ideal for mixing and development of cultures, chemicals, solvents, and assays etc. in Microbiological, Cell Culture & Life Science laboratories.

Brushless Induction drive motor with frequency drive makes the unit suitable for continuous non-

stop operation. Step less electronic frequency control ensures gentle start and maintains preset speed. Compact counter balanced drive mechanism ensures high stability and reliability even in continuous operation & uneven load distribution.

Salient Features :

- Variable speed from 20 RPM to 300 RPM
- Digital display of speed with presetting facility
- Shaking amplitude 40 mm
- Universal Platform to accommodate interchangeable clamps of assorted sizes for different capacity of flasks
- Automatic restart at preset speed in case of power failure

| Technical Data | | | | | | | | |
|----------------|---------------|-------------|---|----------|---------|---------|---------|-------------|
| Models | Platform Size | Max. Volume | Max. No. of clamps (To be ordered separately) | | | | | |
| | | | 2000 ml. | 1000 ml. | 500 ml. | 250 ml. | 150 ml. | 100ml/ 50ml |
| RS-36 BL | 36" x 36" | 18 Litres | 9 | 16 | 25 | 36 | 49 | 64 |

Supply: 220-240 Volts, 50 Hz Single Phase.

**WORLD CLASS
PREMIUM RANGE**



RS - 24 Plus

These Shakers are ideal for mixing and development of cultures, chemicals, solvents, and assays etc. in Microbiological, Cell Culture & Life Science laboratories.

The Unit has base assembly fabricated from heavy mild steel sections. Brushless Induction drive motor with frequency drive makes the unit suitable for continuous non-stop operation. Step less electronic frequency control ensures gentle start and maintains preset speed. Compact counter balanced drive mechanism ensures high stability and reliability even in continuous operation & uneven load distribution.

Salient Features :

- 4" Large LCD display
- Universal Platform with rounded corners to accommodate interchangeable clamps of assorted sizes
- Brushless induction motor with VFD speed control
- Elegant Plastic front
- Variable speed 20 -300 RPM
- Shaking amplitude 40 mm
- Auto start after power resumption

Technical Data

| Models | Platform Size | Max. Volume | Max. No. of clamps (to be ordered separately) | | | | | |
|------------|---------------|-------------|---|----------|---------|---------|---------|-------------|
| | | | 2000 ml. | 1000 ml. | 500 ml. | 250 ml. | 150 ml. | 100ml/ 50ml |
| RS-24 Plus | 24" X 24" | 18 Liters | 9 | 16 | 25 | 36 | 49 | 64 |

Supply: 220-240 Volts, 50 Hz Single Phase.

REMI

Bench Top Orbital Shaking Incubator

**WORLD CLASS
PREMIUM RANGE**



Remi Bench Top Orbital Shaking Incubator Model CIS 18 Plus finds application in researches on bacteria, cultivation, fermentation, hybridization, chemical and biochemical reaction, enzymes and tissues research, which have a high requirement on precision of shaking speed and temperature

Construction: Its shell is made of engineering plastics through molding with a mechanical oscillating tray driven by a motor fitted at the bottom. The Oscillating locus is circular. The duct plate behind the working chamber is SS thin plate and all the operating keys on the LCD screen are on the front side. **Box door** is of a big flap structure made of transparent plastics to facilitate observation, removal or placement of cultures. Closed-loop control of temperature and speed is effected with microcomputer electronic controller using PID regulation mode with LCD screen display. Hot and cold air stream is circulated through a blower behind the duct plate in the working chamber, thereby improving the uniformity of temperature in the working chamber.

Safety Multiple start of compressor in a short time is prevented and the controller performs the function of prolonged start before compressor is started.

When the measured temperature is in excess of the set temperature by 3°C, the buzzer will give an over-temperature alarm and simultaneously the heater will shut down. When the box door opens, the door switch will cut off the power to stop the Heater, blower and rotating fan from work and the operator can remove or place the cultures safely.

Salient Features :

- Stainless-steel chamber and platform easy to clean
- Transparent plastic door
- Microprocessor controller with large LCD screen for temperature and shaking speed with timing function
- Self-check function easy to identify problems
- Smooth start and stop system prevents liquid spillage
- Auto-controller of fan speed to prevent damage to the samples
- Safety door switch, auto pause operation when it is opened

| Technical Data | |
|---|--|
| Model | CIS-18 Plus |
| Shaking Speed Range | 20-300rpm |
| Amplitude | 20mm |
| Temperature Range | 4~50°C ±0.5°C |
| Display Resolution | 0.1°C |
| Timer Range | 1 hour~99h:59m |
| Platform Size (mm) | 450 x 450 |
| Maximum Shaking Capacity (No. of flasks x Volume)* | 4x2000ml, 8x1000ml, 11x500ml, 12x250ml, 28x100ml, 42x50ml |
| Load in Tray | ≤ 10 Kg |
| Power Consumption | 1100w |
| Recommended Voltage Stabilizer | VS 02 |

Supply: 220-240 Volts, 50 Hz, single phase.

* Clamps to be ordered separately



RDHO 50

REMI Dry hot air oven — RDHO series are specially designed to achieve extreme dryness by evaporating all moisture contents from the biomass or other material. Microprocessor control helps in achieving precise high temperature with forced convection. Suitable for varied applications in laboratories and scientific research institutions

Salient Features :

- Microprocessor PID controller (with timing function)
- Polished stainless-steel chamber with rounded corners for easy & quick cleaning
- Uniform distribution of air temperature
- Forced-air convection
- Double layer glass door, larger viewing window

| Technical Data | | |
|-----------------------------------|----------------|-------------|
| Model | RDHO 50 | RDHO 80 |
| Internal dimension (W × D × H) mm | 420×395×350 | 450×400×450 |
| External dimension (W × D × H) mm | 720×590×520 | 740×618×630 |
| Chamber volume (Litres) | 50 | 80 |
| Temperature range | RT+ 10°C~300°C | |
| Temperature accuracy | ± 1°C | |
| Display resolution | 0.1°C | |
| Timing range | 1~9999min | |
| Shelves (Nos) | 2 | |
| Power consumption (Watts) | 1100 | 1550 |

Supply: 220-240 Volts, 50 Hz Single Phase.



RHI 50

REMI heating incubators -RHI series are suitable for achieving precise incubation temperature of different laboratory samples required for optimizing reaction sensitivity

.Salient Features :

- Microprocessor controller
- Interior is made of polished stainless steel with rounded corners for easy & quick cleaning
- The space between the shelves is adjustable.
- Full inner glass door for easy observation
- Self-check function easy to identify problems.
- Over temperature and temperature difference alarms

Technical Data

| Model | RHI 50 | RHI 80 |
|-----------------------------------|-------------------------------------|-----------------|
| Internal dimension (W × D × H) mm | 415 x 360 x 355 | 500 x 400 x 400 |
| External dimension (W × D × H) mm | 690 x 500 x 500 | 780 x 530 x 560 |
| Chamber volume (Litres) | 50 | 80 |
| Shelves (Nos) | 2 | |
| Temperature range | RT+5°C~65°C | |
| Display resolution | 0.1°C Temperature stability ± 0.5°C | |
| Type of heating | Forced air convection | |
| Power consumption (Watts) | 250 | 350 |

Supply: 220-240 Volts, 50 Hz Single Phase.

Vacuum ovens are very versatile pieces of equipment with applications in laboratory research, engineering, and industry. Vacuum oven is generally used for drying of substances which are hygroscopic and heat sensitive and is based on the principle of creating a vacuum to decrease the chamber pressure below the vapour pressure of the water causing it to boil. It can be filled with inert gases, especially for rapid drying of some compound material. The low pressure environment also minimizes oxidation during drying.



RVO-50

The materials to be dried are kept on trays and pressure is reduced by means of vacuum pump. Steam is passed through the space between trays and jacket, so that heat transfer occurs by conduction. The oven door is locked airtight and connected to vacuum pump to reduce the pressure. Microprocessor controller with digital display ensures precise and homogenous temperature control. Dual layer tempered glass door is provided for clear observation. Adjustable aluminum expansion shelves ensure optimal heat transfer within oven chamber.

| Technical Data | |
|-------------------------------------|-------------------|
| Model | RVO-50 |
| Temperature Range | RT+ 10°C to 200°C |
| Display Resolution | 0.1°C |
| Temperature Stability | ± 1°C |
| Vacuum Degree | 133Pa |
| Chamber Material | Stainless steel |
| Aluminum Shelves | 2 |
| Ambient Temperature | +5~40°C |
| Power Consumption | 1450W |
| Interior Dimension (W x D x H) (mm) | 415X370X345 |
| Exterior Dimension (W x D x H) (mm) | 730x560x550 |

Supply: 220-240 Volts, 50 Hz Single Phase.



LCD
Standard



TFT
Optional

- Machine filled CFC free PUF insulation to eliminate void pockets
- Unique design of thermal barrier for better energy efficiency
- Heating by long SS tubular heaters
- Additional tray to store samples
- Chamber calibration port on side
- Hermetically sealed Compressor with CFC free refrigerant (CIS-24 Plus)
- Microprocessor controller with 4" LCD display for display of shaking speed & temperature
- 9 programs memory
- High temperature safety cut off & alarms for high / low set temperature
- Electrical circuit breaker
- Time delay for compressor switch on (CIS-24 Plus)
- Overload cut off relay for compressor (CIS-24 Plus)
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Weight carrying capacity of each tray : 30 Kg Uniformly distributed
- Auto door closer
- Smart Handle with LED door closure indication

REMI Orbital Shaking Incubators are designed for precise temperature control and simultaneous shaking applications required in fermentation studies, enzyme reaction, life sciences, tissue culture and biotechnology, research labs.

These chambers are available in standard & GMP versions.

Salient Features :

- Brushless induction Motor with variable frequency drive suitable for continuous operations
- Step less variable frequency drive ensures gentle shaking start and maintains set speed
- Counter balanced mechanism for high stability in uneven load of different sized flasks
- Universal Shaking Platform to accommodate different sized assorted flasks
- Maximum shaking capacity - 9 Flasks x 2000 ml
- Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber

Optional

- (i) Touch screen display (TFT) with additional features(Details overleaf)
- (ii) Validation protocol with IQ, OQ, PQ Documentation
- (iii) Port for calibration probes / safety back up

Orbital Shaking Incubators

LCD Display

Features

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm

Touch Screen Display

Features

- 7 inch big colour touch screen
- PLC (Programable logic controller)
- Memory of 1500 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Programmable cyclic timer for controlling illumination conditions
- Remi 'DataSoft' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

REMI 'Data Soft'

Features

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with RS-485 connectivity and can be monitored on PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- GSM Mobile Alert for six Numbers
- Power failure and resumption recorded with date and time

Optional Accessories

To be Ordered separately

- Chamber illumination with the help of 2 Nos. fluorescent tubes
- Chamber illumination with 2 Nos. ultra violet lights
- 24 hours Cyclic Timer for regulating illumination conditions
- Data logger for 8 Point temperature recording with sensor printer interface and software
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- GSM alert through SIM card

Technical Data

| | CIS-24 Plus | RIS-24 Plus |
|--|---|--|
| Temperature Range & Accuracy | 5°C to 60°C, $\pm 0.5^\circ\text{C}$ | 5°C above ambient to 60°C, $\pm 0.5^\circ\text{C}$ |
| Internal Volume (Liters) | 215 | |
| Platform Size | 580mm x 600mm | |
| Maximum Shaking Capacity (Volume x No. of flasks)* | 100ml x 49, 150ml x 49, 250ml x 33, 500ml x 24, 1000ml x 15, 2000 ml x 9 | |
| Shaking Speed range (RPM) | 20 to 250 | |
| Shaking Amplitude | 25 mm | |
| Internal Dimensions W x D x H (mm) | 660 x 765 x 650 | |
| External Dimensions W x D x H (mm) | 800 x 1150 x 1300 | |
| Temperature control | Microprocessor with PT-100 sensor | |
| Display | 4" LCD Screen, Large size Display for ease of reading | |
| Power Failure Alarm | Audio Visual Alarm | |
| Door Open Alarm | Audio Alarm in case door open for over one minute | |
| Temperature Variation Alarm | Set Temperature $\pm 2^\circ\text{C}$, Audio Visual Alarm | |
| Illumination | 8 Watts Fluorescent Tube | |
| Internal Body Material | Stainless Steel - 304 grade (Standard Models), Stainless Steel - 316 grade (GMP Models) | |
| External Body Material | Powder Coated CRCA Steel (Standard Models), Stainless Steel - 304 grade (GMP Models) | |
| Insulation (CFC free polyurethane foam) | 70 mm minimum for Body & 80 mm for Door | |
| Noise Level | Less Than 65 db (A) | |
| Recommended Voltage Stabilizer | VS-02 | X |

Supply: 220-240 Volts, 50 Hz Single Phase.

*Clamps to be ordered separately



**LED
Standard**



**LCD
Optional**



**TFT
Optional**

Salient Features :

- Temperature range 5°C to 60°C
- Unique design of thermal barrier for better energy efficiency
- Machine filled CFC free PUF insulation to eliminate void pockets
- Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber
- Heating by long life SS tubular heaters
- Chamber calibration port on side
- Adjustable trays
- Hermetically sealed Compressor with CFC free refrigerant
- High temperature safety cut off & alarms for high / low set parameters
- Sensor failure alarm
- Electrical circuit breaker
- Time delay for compressor switch on
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Microprocessor controller with LED display of Temperature with set, process value & audio visual alarm (standard)
- Weight carrying capacity of each tray : 30 Kg Uniformly distributed
- Auto door closer
- Smart Handle with LED door closure indication

Optional

- 4" LCD display with additional features (Details overleaf)
- Touch screen display (TFT) with additional features (Details overleaf)
- Validation protocol with IQ, OQ, PQ Documentation
- Port for calibration probes / safety back up

REMI Cooling Incubators are designed for applications in pharmaceutical, microbiology, biotechnology, chemical & research labs. These chambers are used for BOD test culture of bacteria, microorganism, tissue culture, incubation, immunological work & storage of vaccines etc.

These incubators are available in standard & GMP versions.

LCD Display

Features

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm
- Cyclic Transfer (Optional)

Touch Screen Display

Features

- 7 inch big colour touch screen
- PLC (Programmable logic controller)
- Memory of 1500 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Programmable cyclic timer for controlling illumination conditions
- Remi 'DataSoft' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

REMI 'Data Soft'

Features

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with RS-485 connectivity and can be monitored on PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- Power failure and resumption recorded with date and time

Optional Accessories

To be Ordered separately

- Chamber illumination with the help of 2 Nos. fluorescent tubes
- Chamber illumination with 2 Nos. ultra violet lights
- 24 hours Cyclic Timer for regulating illumination conditions
- Data logger for 8 Point temperature recording with sensor printer interface and software
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- GSM alert through SIM card

Technical Data

| | CI-6 Plus | CI-10 Plus | CI-12 Plus | CI-16 Plus | CI-19 Plus | CI-28 Plus | CI-35 Plus |
|------------------------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Internal Volume (Litres) | 200 | 280 | 370 | 450 | 540 | 800 | 1000 |
| Number of tray | 2 | 3 | 4 | 5 | 6 | 6 | 7 |
| Internal Dimensions W x D x H (mm) | 660 x 655 x 450 | 660 x 655 x 650 | 660 x 655 x 850 | 660 x 655 x 1050 | 660 x 655 x 1250 | 800 x 800 x 1250 | 800 x 800 x 1580 |
| External Dimensions W x D x H (mm) | 800 x 1095 x 1020 | 800 x 1095 x 1220 | 800 x 1095 x 1420 | 800 x 1095 x 1620 | 800 x 1095 x 1820 | 960 x 1370 x 1950 | 960 x 1370 x 2270 |
| Temperature Range & Accuracy | 5°C to 60°C, $\pm 0.5^\circ\text{C}$ | | | | | | |
| Temperature control | Microprocessor with PT-100 sensor | | | | | | |
| Display | 1" - 7 Segment, Big Size LED | | | | | | |
| Power Failure Alarm | Visual Alarm | | | | | | |
| Door Open Alarm | Audio Visual Alarm in case door open for over one minute | | | | | | |
| Temperature Variation Alarm | Set Temperature $\pm 2^\circ\text{C}$, Audio Visual Alarm | | | | | | |
| Illumination | 8 Watts Fluorescent Tube | | | | | | |
| Internal Body Material | Stainless Steel - 304 grade (Standard Models), Stainless Steel - 316 grade (GMP Models) | | | | | | |
| External Body Material | Powder Coated CRCA Steel (Standard Models), Stainless Steel - 304 grade (GMP Models) | | | | | | |
| Insulation | 70 mm minimum for Body & 80 mm for Door, CFC free polyurethane foam | | | | | | |
| Noise Level | Less Than 65 db(A) | | | | | | |
| Recommended Voltage Stabilizer | VS-02 | VS-02 | VS-02 | VS-03 | VS-03 | VS-06 | VS-06 |

Supply: 220-240 Volts, 50 Hz Single Phase.



Cooling Incubators

Cooling Incubators find applications in Pharmaceuticals, Biotechnology and Research institutions for storage and incubation studies. They are mainly used for B.O.D. test, storage of sensitive cultures, vaccines etc. culture of bacteria microorganism and plant life, serum incubation studies and Immunological work etc.

These Chambers are constructed of double walls, the exterior is made of sheet steel while the inner chamber is made of stainless steel.

Salient Features :

- Safety thermostat to prevent over heating
- Audio visual alarm warning of Temperature variation
- High voltage safety cutoff for unit protection
- Plexi glass inner door to inspect specimens

Optional

- Chamber illumination with fluorescent or ultra violet lights
- Cyclic timer for regulating illumination conditions

| Technical Data | | | |
|--------------------------------|---|------------------|------------------|
| | CI-3S | CI-6S | CI-10S |
| Internal Volume | 85 LTRS | 170 LTRS | 285 LTRS |
| No. of Shelves | 2 | 2 | 3 |
| Temperature Range | 5°C to 60°C \pm 0.5°C | | |
| Temperature Control | Digital | | |
| Int. Dimensions W X D X H(mm) | 420 X 380 X 560 | 500 X 410 X 840 | 580 X 490 X 990 |
| Ext. Dimensions W X D X H(mm) | 540 X 590 X 1050 | 620 X 670 X 1380 | 700 X 750 X 1530 |
| Inner Chamber Material | Stainless steel 304 (AISI Grade, Non Corrosive, Non Magnetic) | | |
| Outer Body Material | Powder coated CRCA steel | | |
| Recommended Voltage Stabilizer | VS-01 | VS-02 | VS-02 |

Supply: 220-240 Volts, 50 Hz Single Phase.



New range of refrigerators from REMI are designed for storage applications in pharmaceutical, microbiology, biotechnology, chemical, clinical diagnostic, hospitals & research institutions. The unit is supplied with a glass door for convenient sample viewing, forced air circulation system ensures uniform temperature throughout the chambers. Digital controller is provided for display of internal temperature along with alarm systems.

Salient Features :

- Plastic inner chamber ; Outer body pre painted G.I.
- Energy efficient
- Uniform cooling by forced air circulation
- Adjustable Plastic coated wire mesh shelves
- Clear product visibility with dual glass
- High / low temperature alarm

| Technical Data | | | |
|---------------------|--------------------------|---------|---------|
| Model No. | RLR-200 | RLR-300 | RLR-400 |
| Capacity (Litres) | 200 | 300 | 400 |
| Temperature Range | 1° C ~ 10 ° C | | |
| No. of Door (Glass) | 1 | 1 | 1 |
| Baskets / Shelves | 3 | 4 | 4 |
| | External Dimensions (mm) | | |
| Width | 533 | 584 | 610 |
| Depth | 533 | 584 | 584 |
| Height | 1575 | 1702 | 1981 |

Supply: 220-240 Volts 50 Hz Single Phase.



**LED
Standard**



**LCD
Optional**



**TFT
Optional**

Salient Features :

- Temperature range 2°C to 12°C
Unique design of thermal barrier for better energy efficiency
- Machine filled CFC free PUF insulation to eliminate void pockets
- Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber
- Chamber calibration port on side
- Adjustable trays
- Hermetically sealed Compressor with CFC free refrigerant
- Alarms for high / low set parameters
- Sensor failure alarm
- Electrical circuit breaker
- Time delay for compressor switch on
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Microprocessor controller with LED display of Temperature with set, process value & audio visual alarm (standard)
- Weight carrying capacity of each tray : 30 Kg
Uniformly distributed
- Auto door closer
- Smart Handle with LED door closure indication

Optional

- 4" LCD display with additional features (Details overleaf)
- Touch screen display (TFT) with additional features (Details overleaf)
- Validation protocol with IQ, OQ, PQ Documentation
- Port for calibration probes / safety back up

REMI Cold Cabinets are designed for bio sample storage applications in pharmaceutical, microbiology, biotechnology, chemical & research labs.

These cabinets are available in standard & GMP versions.

LCD Display

Features

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm

Touch Screen Display

Features

- 7 inch big colour touch screen
- PLC (Programmable logic controller)
- Memory of 1500 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Remi 'DataSoft' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

REMI 'Data Soft'

Features

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with RS-485 connectivity and can be monitored on PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- GSM Mobile Alert for six Numbers
- Power failure and resumption recorded with date and time

Optional Accessories

To be Ordered separately

- Chamber illumination with the help of 2 Nos. fluorescent tubes
- Chamber illumination with 2 Nos. ultra violet lights
- 24 hours Cyclic Timer for regulating illumination conditions
- Data logger for 8 Point temperature recording with sensor printer interface and software
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- GSM alert through SIM card

Technical Data

| | CC-6 Plus | CC-10 Plus | CC-12 Plus | CC-16 Plus | CC-19 Plus | CC-28 Plus | CC-35 Plus |
|------------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|
| Internal Volume (Litres) | 200 | 280 | 370 | 450 | 540 | 800 | 1000 |
| Number of trays | 2 | 3 | 4 | 5 | 6 | 6 | 7 |
| Dimensions W x D x H (mm) | 660x655x450 | 660x655x650 | 660x655x850 | 660x655x1050 | 660x655x1250 | 800x800x1250 | 800x800x1580 |
| External Dimensions W x D x H (mm) | 800x1095x1020 | 800x1095x1220 | 800x1095x1420 | 800x1095x1620 | 800x1095x1820 | 960x1370x1950 | 960x1370x2270 |
| Temperature Range & Accuracy | 2°C to 12°C, ± 0.5°C | | | | | | |
| Temperature control | Microprocessor with PT-100 sensor | | | | | | |
| Display | 1" - 7 Segment, Big Size LED | | | | | | |
| Power Failure Alarm | Visual Alarm | | | | | | |
| Door Open Alarm | Audio Visual Alarm in case door open for over one minute | | | | | | |
| Temperature Variation Alarm | Set Temperature ± 2°C, Audio Visual Alarm | | | | | | |
| Illumination | 8 Watts Fluorescent Tube | | | | | | |
| Internal Body Material | Stainless Steel - 304 grade (Standard Models), Stainless Steel - 316 grade (GMP Models) | | | | | | |
| External Body Material | Powder Coated CRCA Steel (Standard Models), Stainless Steel - 304 grade (GMP Models) | | | | | | |
| Insulation | 70 mm minimum for Body & 80 mm for Door, CFC free polyurethane foam | | | | | | |
| Noise Level | Less Than 65 db(A) | | | | | | |
| Recommended Voltage Stabilizer | VS-02 | VS-02 | VS-02 | VS-03 | VS-03 | VS-06 | VS-06 |

Supply: 220-240 Volts, 50 Hz Single Phase.



**LCD
Standard**



**TFT
Optional**

- Hermetically sealed Compressor with CFC free refrigerant
- Chamber calibration port on side
- Adjustable trays
- Output for remote alarm
- Microprocessor controller with LCD display & capacitance type sensor
- 4" attractive LCD display for direct display of humidity & temperature
- Auto tuning of controller
- Settable High / low alarm points with date and time
- Centronic interface to record Temperature, Humidity, Date & Time by attaching Dot Matrix printer with Adjustable print interval
- Remi 'Datasoft' data acquisition software as per 21 CFR part 11 requirements (Optional)
- Power failure and resumption recorded with date and time
- PC communication through RS-485 with data acquisition software
- High temperature safety cut off & alarms for high / low set parameters
- Low water level alarm and power cutoff of boiler tank heater
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Data logger for 8 Point (4+4) temperature / humidity recording with sensor, printer interface and software (Optional)
- Weight carrying capacity of each tray : 30 Kg Uniformly distributed
- Auto door closer
- Smart Handle with LED door closure indication

REMI Humidity Chambers are designed for testing of electronic, electrical components, corrosion studies on mechanical parts, shelf life studies on paints, varnishes and cement at respective manufacturing facilities. These chambers control precise temperature and Humidity.

These chambers are available in standard & GMP versions.

Salient Features :

- Precise monitoring of temperature and humidity conditions
- Temperature range 10°C to 60°C, Humidity range 40% to 95% RH
- Unique design of thermal barrier for better energy efficiency
- Machine filled CFC free PUF insulation to eliminate void pockets
- Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber
- Heating by long life SS tubular heaters

Optional

- Touch screen display (TFT) with additional features (Details overleaf)
- Validation protocol with IQ, OQ, PQ Documentation
- Port for calibration probes / safety back up

LCD Display

Features

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm

Touch Screen Display

Features

- 7 inch big colour touch screen
- PLC (Programmable logic controller)
- Memory of 1500 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Programmable cyclic timer for controlling illumination conditions
- Remi 'DataSoft' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

REMI 'Data Soft'

Features

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with RS-485 connectivity and can be monitored on PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- GSM Mobile Alert for six Numbers
- Power failure and resumption recorded with date and time

Optional Accessories

To be Ordered separately

- Chamber illumination with the help of 2 Nos. fluorescent tubes
- Chamber illumination with 2 Nos. ultra violet lights
- 24 hours Cyclic Timer for regulating illumination conditions
- Data logger for 8 / 16 Point temperature & Humidity recording with sensors printer interface and software
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature and humidity at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- Standby Humidity System
- GSM alert through SIM card

Technical Data

| | CHM-6 Plus | CHM-10 Plus | CHM-12 Plus | CHM-16 Plus | CHM-19 Plus | CHM-28 Plus | CHM-35 Plus |
|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Internal Volume (Liters) | 200 | 280 | 370 | 450 | 540 | 800 | 1000 |
| Number of Shelves | 2 | 3 | 4 | 5 | 6 | 6 | 7 |
| Internal Dimensions W x D x H (mm) | 660 x 655 x 450 | 660 x 655 x 650 | 660 x 655 x 850 | 660 x 655 x 1050 | 660 x 655 x 1250 | 800 x 800 x 1250 | 800 x 800 x 1580 |
| External Dimensions W x D x H (mm) | 800 x 1095 x 1020 | 800 x 1095 x 1220 | 800 x 1095 x 1420 | 800 x 1095 x 1620 | 800 x 1095 x 1820 | 960 x 1370 x 1950 | 960 x 1370 x 2270 |
| Temperature Range & Accuracy | 10°C to 60°C, $\pm 1^\circ\text{C}$ | | | | | | |
| Humidity Range (Rh) & Accuracy | 40% to 95%, $\pm 3\%$ | | | | | | |
| Temperature & Humidity control | Microprocessor with Capacitance type sensor | | | | | | |
| Display | 4" LCD Screen, Large size Display for ease of reading | | | | | | |
| Power Failure Alarm | Visual Alarm | | | | | | |
| Door Open Alarm | Audio Visual Alarm in case door open for over one minute | | | | | | |
| Temperature / Humidity Variation Alarm | Set Humidity $\pm 3\%$, Set Temperature $\pm 1^\circ\text{C}$, Audio Visual Alarm | | | | | | |
| Illumination | 8 Watts Fluorescent Tube | | | | | | |
| Internal Body Material | Stainless Steel - 304 grade (Standard Models), Stainless Steel - 316 grade (GMP Models) | | | | | | |
| External Body Material | Powder Coated CRCA Steel (Standard Models), Stainless Steel - 304 grade (GMP Models) | | | | | | |
| Insulation | 70 mm minimum for Body & 80 mm for Door, CFC free polyurethane foam | | | | | | |
| Noise Level | Less Than 65 db(A) | | | | | | |
| Recommended Voltage Stabilizer | VS-04 | | | | | VS-07 | |

Supply: 220-240 Volts, 50 Hz Single Phase.



SC-19 Plus

REMI Stability Chambers are designed as per ICH Guidelines for precise monitoring of temperature and humidity conditions required for long term, intermediate & accelerated stability studies at chemical, pharmaceutical, agrochemical manufacturing facilities. These chambers are manufactured to comply with GMP requirements

Salient Features :

- Fulfills storage conditions of 25°C - 60% RH, 40°C - 75% M RH, 30°C - 65% RH, 25°C - 40% RH
- Precise monitoring of temperature and humidity conditions
- Unique design of thermal barrier for better energy efficiency
- Machine filled CFC free PUF insulation to eliminate void pockets
- Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber within permissible limit Heating by long life SS tubular heaters
- Hermetically sealed Compressor with CFC free refrigerant
- Chamber calibration port on side
- Adjustable trays
- Output for remote alarm



**LCD
Standard**



**TFT
Optional**

- Microprocessor controller with LCD display & capacitance type sensor
- 4 " attractive LCD display for direct display of humidity & temperature
- Auto tuning of controller
- Battery Backup for Controller
- Settable High / Low alarm points
- Centronic interface to record temperature, Humidity, Date & Time by attaching Dot Matrix printer with adjustable print interval
- REMI '**Datasoft**' data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (Optional)
- Power failure and resumption recorded with date and time
- PC communication through RS - 485 with data acquisition software
- High temperature safety cut off & alarms for high/low set parameters
- Low water level alarm and power cutoff of boiler tank heater
- Time delay for compressor switch on
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Auto door closer
- Attractive door profile
- Data logger for 8 point (4+4) temperature / humidity recording with sensor, printer interface and software (Optional)
- Weight carrying capacity of each tray : 30 Kg Uniformly distributed
- Smart Handle with LED door closure indication

Optional

- Touch screen display (TFT) with additional features(Details overleaf)
- Validation protocol with IQ, OQ, PQ Documentation
- Port for calibration probes / safety back up

LCD Display

Features

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm

Touch Screen Display

Features

- 7 inch big colour touch screen
- PLC (Programable logic controller)
- Memory of 1500 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Programmable cyclic timer for controlling illumination conditions
- Remi '**Datasoft**' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

REMI 'Data Soft'

Features

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with RS-485 connectivity and can be monitored on PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- GSM Mobile Alert for six Numbers
- Power failure and resumption recorded with date and time

Optional Accessories

To be Ordered separately

- Data logger for 8/16 Point temperature & Humidity recording with sensor printer interface and software (Optional)
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature and humidity at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- Standby Humidity System
- GSM alert through SIM card

Technical Data

| | SC-6 Plus | SC-10 Plus | SC-12 Plus | SC-16 Plus | SC-19 Plus | SC-28 Plus | SC-35 Plus |
|--------------------------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Internal Volume (Liters) | 200 | 280 | 370 | 450 | 540 | 800 | 1000 |
| Number of tray | 2 | 3 | 4 | 5 | 6 | 6 | 7 |
| Internal Dimensions W x D x H (mm) | 660 x 655 x 450 | 660 x 655 x 650 | 660 x 655 x 850 | 660 x 655 x 1050 | 660 x 655 x 1250 | 800 x 800 x 1250 | 800 x 800 x 1580 |
| External Dimensions W x D x H (mm) | 800 x 1095 x 1020 | 800 x 1095 x 1220 | 800 x 1095 x 1420 | 800 x 1095 x 1620 | 800 x 1095 x 1820 | 960 x 1370 x 1950 | 960 x 1370 x 2270 |
| Temperature Range & Accuracy | 10°C to 60°C, $\pm 1^\circ\text{C}$ | | | | | | |
| Humidity Range (Rh) & Accuracy | 40% to 95%, $\pm 3\%$ | | | | | | |
| Temperature & Humidity control | Microprocessor with Capacitance type sensor | | | | | | |
| Display | 4" LCD Screen, Large size Display for ease of reading | | | | | | |
| Power Failure Alarm | Visual Alarm | | | | | | |
| Door Open Alarm | Audio Visual Alarm in case door open for over one minute | | | | | | |
| Humidity/Temperature Variation Alarm | Set Humidity $\pm 3\%$ Rh, Set Temperature $\pm 1^\circ\text{C}$, Audio Visual Alarm | | | | | | |
| Illumination | 8 Watts Fluorescent Tube | | | | | | |
| Internal Body Material | Stainless Steel - 316 grade | | | | | | |
| External Body Material | Stainless Steel - 304 grade | | | | | | |
| Insulation | 70 mm minimum for Body & 80 mm for Door; CFC free polyurethane foam | | | | | | |
| Noise Level | Less Than 65 db(A) | | | | | | |
| Recommended Voltage Stabilizer | VS-04 | | | | | VS-07 | VS-07 |

Supply: 220-240 Volts, 50 Hz Single Phase.

Deep Freezer



These Deep Freezers are designed for quick freezing and storing of Blood Components, Serum, Vaccines, Biological & Medical Specimens, Clinical Samples, etc. at low temperatures.

Engineered for just a little bit more, the new REMI series of Upright Freezers gives you up to -25°C instead of the conventional -20°C.

Salient Features :

- Plastic inner chamber ; Outer body pre painted G.I.
- Quick freezing function
- Sealed drawers - prevent frost loss from open door
- Solid state temperature controller
- Adjustable baskets / shelves
- Low energy consumption and noise levels

| Technical Data | | |
|--------------------------|-----------------|-----------|
| Model No. | RFV - 245 | RFV - 340 |
| Capacity (Litres) | 245 | 340 |
| Temperature Range °C | -16 °C ~ -24 °C | |
| Door | 1 | 1 |
| Baskets / Shelves | 6 | 7 |
| External Dimensions (mm) | | |
| Width | 533 | 610 |
| Depth | 610 | 635 |
| Height | 1448 | 1854 |

Supply: 220-240 Volts 50 Hz Single Phase.

Quick Freezer



These Quick Freezers are designed for quick freezing and storing of Blood Components, Serum, Vaccines, Biological and Medical Specimens, Clinical Samples etc. at low temperatures.

These units are available in horizontal and vertical versions. Constructed of double walls, the exterior is made of sheet steel while the interior of stainless steel having PUF insulation to minimize heat loss.

Salient Features :

- Low Temperature up to -20°C (in AC room)
- Stainless steel inner chamber
- Extremely efficient PUF insulation to minimize heat loss
- High-tech solid state digital indicator-cum-controller

Optional

- Seven days circular chart recorder

| Technical Data | | |
|--------------------------------|--|------------------|
| Vertical Freezers | | |
| | RQFV-170 | RQFV-265 |
| Minimum Temperature | -20°C | -20°C |
| Internal Volume | 170Ltrs. | 265Ltrs. |
| Int. Dimensions W x D x H (mm) | 500 x 430 x 850 | 580 x 500 x 990 |
| Ext. Dimensions W x D x H (mm) | 630 x 580 x 1380 | 700 x 660 x 1590 |
| Inner Chamber Material | Stainless Steel 304 (AISI Grade, Non Corrosive, Non Magnetic) | |
| Outer Body Material | Powder Coated CRCA Steel | |
| Recommended Voltage Stabilizer | VS - 02 | VS - 02 |

Supply: 220-240 Volts, 50 Hz Single Phase.



- Hermetically sealed Compressor with CFC free refrigerant
- Alarms for high / low set parameters
- Sensor failure alarm
- Electrical circuit breaker
- Rounded inner chambers for easy cleaning
- Microprocessor controllers with LED display of Temperature with set, process value & audio visual alarm
- Weight carrying capacity of each tray : 30 Kg Uniformly distributed
- Smart Handle with LED door closure indication

Optional

(I) Port for calibration probes / safety back up

REMI Refrigerator Cum Freezer are designed for bio sample storage applications in pharmaceutical, microbiology, biotechnology, chemical & research labs.

Salient Features :

- Unique design of thermal barrier for better energy efficiency
- Machine filled CFC free PUF insulation to eliminate void pockets
- Two separate chambers with Independent Cooling & Temperature Monitoring Systems
- Adjustable trays

Notes:

Models with both chambers as Refrigerator or both chambers as Freezer can be offered.

| Technical Data | | |
|---------------------------------------|---|---|
| Model | RRF - 250 / RRFD - 250 | |
| | Refrigerator | Freezer |
| Internal Volume (Liters) | 250 | 265 |
| Number of Trays | 2 | 2 |
| Temperature Range | 2°C to 12°C | -15°C to -20°C (RRF - 250) -30°C to -40°C (RRFD - 250) |
| Internal Dimensions W x D x H (mm) | 660 x 625 x 575 | 660 x 675x 575 |
| External Dimensions W x D x H (mm) | 800 x 975x1800 | |
| Temperature Control | Microprocessor with PT-1000 sensors | |
| Display | 1"-7 Segment, Big Size LED | |
| Temperature Variation Alarm | Set Temperature $\pm 2^{\circ}\text{C}$, Audio Visual Alarm | |
| Illumination | 8 Watts Fluorescent Tube (in Refrigerator only) | |
| Internal Body Material | Stainless Steel-304 grade (Standard Models), Stainless Steel-316 (GMP Models) | |
| External Body Material | Powder Coated CRCA Steel (Standard Models), Stainless Steel-304 grade (GMP Models) | |
| Insulation | 80mm minimum for Body and 80mm for Door, CFC free polyurethane foam | |
| Noise Level | Less than 65 dB (A) | |
| Recommended Voltage Stabilizer | VS-04 | |

Supply 220-240 Volts, 50 Hz Single Phase.



**LED
Standard**



**LCD
Optional**



**TFT
Optional**

Salient Features :

- Temperature up to -20°C / -40°C (AC room)
- Upright models with small foot prints
- Unique design of thermal barrier for better energy efficiency
- Machine filled CFC free PUF insulation to eliminate void pockets
- Adjustable trays
- Hermetically sealed Compressor with CFC free refrigerant
- Alarms for high/low set parameters
- Sensor failure alarm
- Electrical circuit breaker
- Time delay for compressor switch on
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Microprocessor controller with LED display of Temperature with set, process value & audio visual alarm (standard)
- Weight carrying capacity of each tray : 30 Kg Uniformly distributed
- Auto door closer
- Smart Handle with LED door closure indication

Optional

- 4" LCD display with additional features (Details overleaf)
- Touch screen display (TFT) with additional features (Details overleaf)
- Validation protocol with IQ, OQ, PQ Documentation
- Port for calibration probes / safety back up

REMI Deep Freezers are designed for storage of biological samples in biotech, life science, clinical research as well as medical & pharmaceutical specimens, serums, vaccines, blood components. These freezers are available with temperatures up to -20°C and -40°C.

These freezers are available in standard & GMP versions.

LCD Display

Features

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm

Touch Screen Display

Features

- 7 inch big colour touch screen
- PLC (Programable logic controller)
- Memory of 15000 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Remi '**Datasoft**' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

REMI 'Data Soft'

Features

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with RS-485 connectivity and can be monitored on PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- GSM Mobile Alert for six Numbers
- Power failure and resumption recorded with date and time

Optional Accessories

To be Ordered separately

- Data logger for 8 Point temperature recording with sensor printer interface and software
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- GSM alert through SIM card

Technical Data

| | RQV-200 Plus | RQV-300 Plus | RQV-400 Plus | RQV-500 Plus | RQV-600 Plus | RQVD-200 Plus | RQVD-300 Plus | RQVD-400 Plus |
|---|---|--------------|--------------|--------------|--------------|---|---------------|---------------|
| Internal Volume (Liters) | 200 | 300 | 400 | 500 | 600 | 200 | 300 | 400 |
| Number of trays | 2 | 3 | 4 | 5 | 6 | 2 | 3 | 4 |
| Internal Dimensions W x D x H (mm) | 660x765x450 | 660x765x650 | 660x765x850 | 660x765x1050 | 660x765x1250 | 640x755x 430 | 640x755x 630 | 640x755x830 |
| External Dimensions W x D x H (mm) | 800x975x1020 | 800x975x1220 | 800x975x1420 | 800x975x1620 | 800x975x1820 | 800x975x1020 | 800x975x1220 | 800x975x1420 |
| Minimum Temperature | -20°C | | | | | -40°C (AC room) | | |
| Insulation (CFC free polyurethane foam) | 80 mm minimum for Body & 80 mm for Door | | | | | 80 mm minimum for Body & 80 mm for Door | | |
| Temperature control | Microprocessor | | | | | | | |
| Display | 1" - 7 Segment, Big Size LED | | | | | | | |
| Power Failure Alarm | Visual Alarm | | | | | | | |
| Door Open Alarm | Audio Visual Alarm in case door open for over one minute | | | | | | | |
| Illumination | No | | | | | | | |
| Internal Body Material | Stainless Steel - 304 grade (Standard Models), Stainless Steel - 316 grade (GMP Models) | | | | | | | |
| External Body Material | Powder Coated CRCA Steel (Standard Models), Stainless Steel - 304 grade (GMP Models) | | | | | | | |
| Noise Level | Less Than 65 db(A) | | | | | | | |
| Recommended Voltage Stabilizer | VS-02 | VS-02 | VS-03 | VS-03 | VS-03 | VS-02 | VS-03 | VS-03 |

Supply: 220-240 Volts, 50 Hz Single Phase.



LCD
Standard



TFT
Optional

Salient Features :

- Efficient CFC free insulation with high core density reduces temperature loss
- Optimized compressor run ensures energy efficiency
- Hot line across the door assembly to prevent frost formation
- Efficient CFC free dual refrigeration system ensures fast temperature pull down
- Quadruplicate step silicon rubber gasket for complete insulation
- Independent internal foamed doors with plastic handle
- Smart Handle with LED door closure indication
- Port for calibration probes / safety back up
- **Audio Visual alarms for**
 - Temperature high / low
 - Power failure
 - Door Open
 - Compressor on (only visual)
 - Power on (only visual)
- **Settable points of**
 - Temperature high / low
 - High / low temperature alarm point
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Weight carrying capacity of each tray : 30 Kg Uniformly distributed
- Vacuum Release Valve for easy door opening.

Optional

- (i) Touch screen display (TFT) with additional features(Details overleaf)
- (ii) Validation protocol with IQ, OQ, PQ Documentation

REMI's new range of Ultra-Low Temperature (ULT) freezers are specially designed for faster temperature pull down & optimized cryopreservation. Highly sensitive microprocessor control ensures precise temperature management at -86°C. Recommended Ambient Temperature < 27°C.

These cabinets are available in standard & GMP versions.

LCD Display

Features

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm

Touch Screen Display

Features

- 7 inch big colour touch screen
- PLC (Programable logic controller)
- Standby refrigeration (optional)
- Memory of 1500 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Remi 'DataSoft' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

REMI 'Data Soft'

Features

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with RS-485 connectivity and can be monitored on PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- GSM Mobile Alert for six Numbers
- Power failure and resumption recorded with date and time

Optional Accessories

To be Ordered separately

- Data logger for 8 Point temperature recording with sensor printer interface and software
- Seven days circular chart recorder
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature and humidity at any one set point for 24 hours on empty and loaded condition
- GSM alert through SIM card

Technical Data

| Particulars | ULT-90 | ULT-185 | ULT-360 |
|---|---|------------------|-------------------|
| Internal Volume (Liters) | 90 | 185 | 360 |
| No. of trays | 2 | 3 | 6 |
| No. of Internal Doors | 1 | 2 | 4 |
| Internal Dimensions W x D x H (mm) | 400 x 400 x 580 | 510 x 510 x 730 | 700 x 510 x 1000 |
| External Dimensions W x D x H (mm) | 711 x 877 x 1405 | 820 x 987 x 1560 | 1010 x 987 x 1830 |
| Operating Temperature Range | -45°C to -86°C | | |
| Insulation (CFC free polyurethane foam) | Body : 150 mm sides, 300 mm Back, Door : 110mm | | |
| Temperature Control | Microprocessor with PT-100 sensor | | |
| Display | 4" LCD | | |
| Power Failure Alarm | Audio Visual Alarm | | |
| Door Open Alarm | Audio Visual Alarm in case door open for over one minute | | |
| Internal Body Material | S.S. 304 (AISI Grade, Non Corrosive, Non Magnetic) | | |
| External Body Material | Powder Coated CRCA Steel | | |
| Noise Level | Less Than 65 db(A) | | |
| Battery Backup | Rechargeable, Back Up 8 hrs (for alarm system & temperature recorder) | | |
| Recommended Voltage Stabilizer | VS-05 | VS-06 | VS-07 |

Supply: 220-240 Volts, 50 Hz Single Phase.

Ultra Low Temperature Freezers - (All for the safety of your samples).

REMI ULT Freezers models ULT-490 and ULT-650 with their environmentally friendly design incorporates the latest in cabinet, refrigeration, temperature control and monitoring features. They provide a safe and reliable performance to fulfill storage conditions in life science, biological, medical and other applications.

Silent Features :

- Energy efficient design, Non CFC foamed in place urethane Insulation
- Multi color Touch screen display with Password ID recognition
- Front USB for data logging
- Graphic User Interface for temperature settings and alarms
- Vacuum Relief port for pressure equalization
- Exterior Door Gasket providing energy efficient thermal barrier and reduce frost build up
- Port for LN2/CO2 back up system (optional)
- 485 communications interface
- Remote Alarm Contacts



ULT-490

| Technical Data | | |
|------------------------------------|--|---------------|
| Model | ULT-490 | ULT-650 |
| Temperature Range (°C) | -50°C to -86°C | |
| Nominal Capacity (Litres) | 490 | 650 |
| Inner door | 4 | |
| Shelves | 3 | |
| Controller type | Microprocessor, Touch Screen Display | |
| Minimal temperature (°C) | -86 | |
| Screen Password | Yes | |
| Alarms available for: | Power failure, Sensor failure, Low Battery, Backup battery, High/low temperature, Door open, High condenser temperature, and Remote alarm. | |
| Exterior dimensions (mm) W x D x H | 900x929x1990 | 1091x929x1990 |
| Interior dimensions (mm) W x D x H | 589x637x1310 | 780x637x1310 |
| Recommended Voltage Stabilizer | VS-07 | VS-07 |

Supply: 220-240 Volts, 50 Hz Single Phase

Ultra Low Deep Freezers (-86°C)

- 7" Touch screen
- Front USB for data logging
- Vent port enables fast sample access

- Double door
- silent hinge
- Non HCFC polyurethane insulation

- Single hand openable

- Multi layer gasket

- Gasket heating

- Height-adjustable shelves

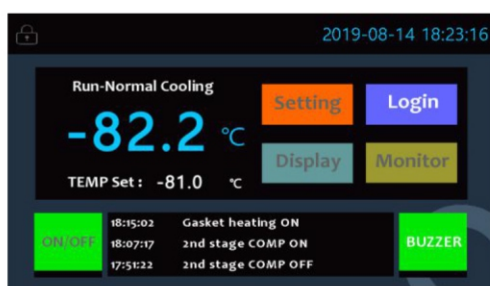
- Enhanced heat transfer

- Easy-clean filter

- Cascade refrigeration system

- High efficient oil separate

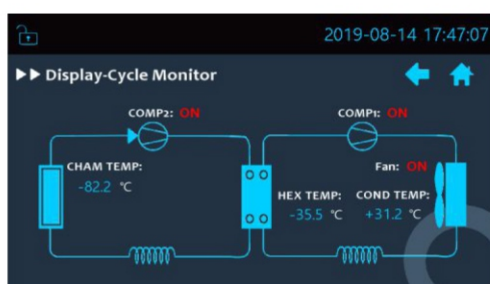
- Leveling caster



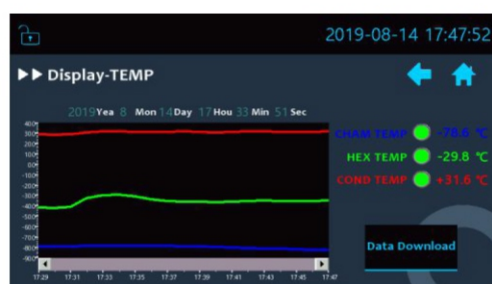
Interface



User List



Cycle Monitor



Data Log



LCD
Standard



TFT
Optional



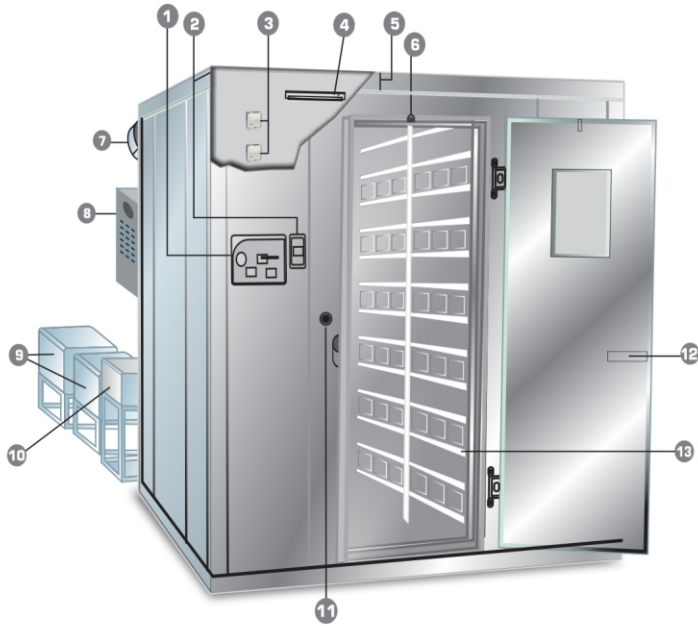
REMI Walk in chambers are designed for simulating, monitoring & control of environmental conditions like temperature & humidity. All these chambers are double walled & modular in construction, easy to assemble at site. They are available in standard sizes & can also be tailor made to suit specific requirements. Forced air circulation with the help of fan blower maintains uniform conditions. Use of intelligent control systems & dedicated REMI 'Datasoft' software complying to 21 CFR Part 11 requirements greatly enhances the performance. These chambers can be provided with standby refrigeration & humidity systems (optional) for uninterrupted functioning.

CONSTRUCTION • Double walled prefabricated modular panels with PUF insulation, easy to assemble at site • Standard model with inner of Stainless Steel (304 Grade) and outer Powder coated steel sheet • GMP model with inner (316 Grade) and outer of Stainless Steel (304 Grade) • CFC free Refrigeration system with split type condensing unit located outside lab helps to emit hot air beyond working area • Heating by long lasting SS tubular heaters • Humidity by steam injection. Boiler and water reservoir made of SS with heater and low water level cut off • Forced Air Circulation by heavy duty motor • SS racks and trays.

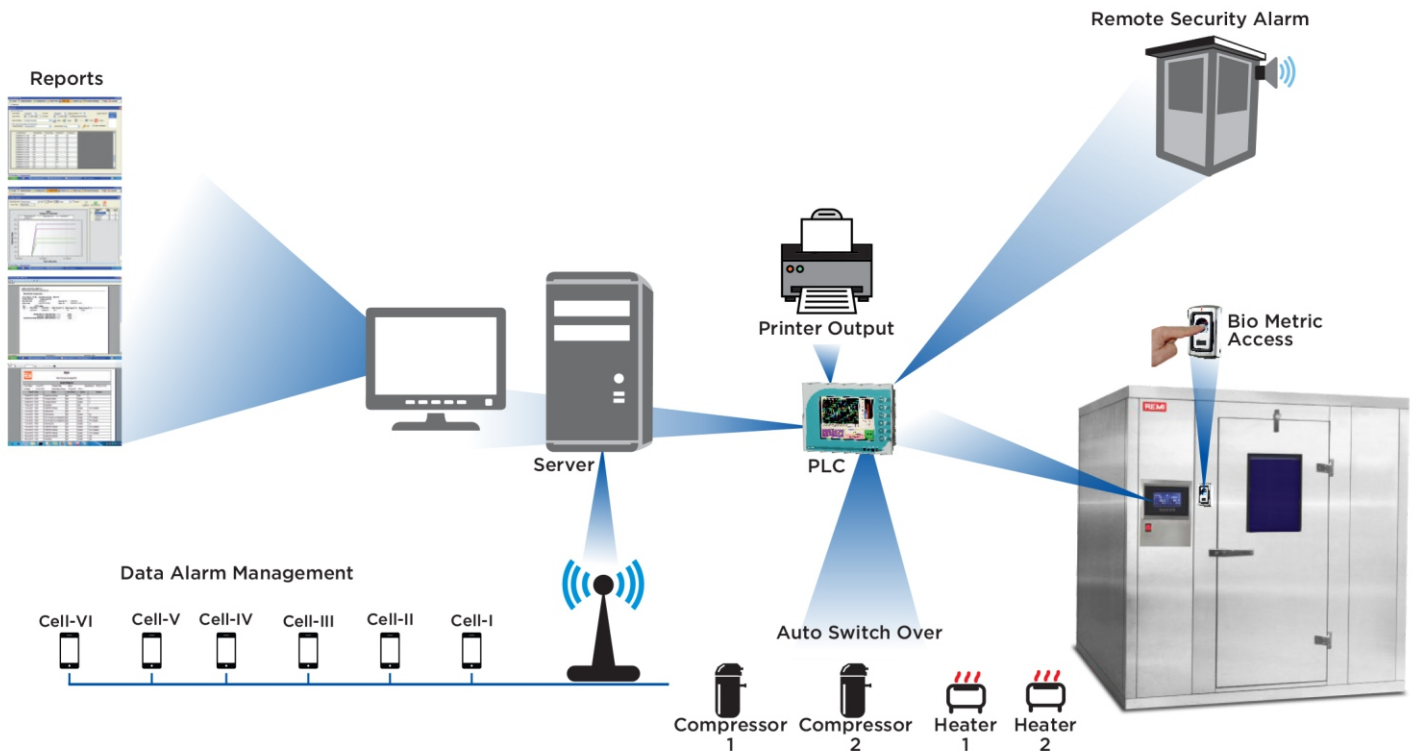
Salient Features :

- Designed as per ICH guidelines to meet, WHO and USFDA requirement
- Fulfills storage conditions of 25°C-60% RH, 40°C-75% RH, 30°C-65% RH 25°C-40% RH
- Temperature Range: 20°C to 60°C, Accuracy: $\pm 0.2^\circ\text{C}$, Uniformity: $\pm 1^\circ\text{C}$ (STABILITY CHAMBERS)
- Humidity range: 40% RH to 95% RH, Accuracy: $\pm 2\%$ RH, Uniformity: $\pm 3\%$ RH (STABILITY CHAMBERS)
- Temperature Range: 2°C to 8°C, Accuracy: $\pm 0.2^\circ\text{C}$, Uniformity: $\pm 1^\circ\text{C}$ (COLD ROOMS)
- Microprocessor based auto tuning PID controller provided for precise control of temperature and humidity
- Auto change over to standby systems through PLC (Optional)
- Auto switch over to standby sensor in case of Controlling Sensor failure through PLC (Optional)
- Capacitance type Humidity sensor enables direct display of RH and temperature (STABILITY CHAMBERS)
- Audio visual alarm for temperature, humidity variations and utility failures
- Output for remote alarm in lab and at security gate
- Safety includes shut off of humidity and air heaters in case of temperature overshoots or undershoots beyond specified limits with alarms
- Facility to open the door from inside in case of door locked with emergency bell having switch inside chamber
- Low water level alarm and power cut off of boiler tank heater
- Overload cut off relay for compressor
- Time delay for compressor switch on
- PC communication via RS-485 and software complying to 21CFR part 11 USFDA guidelines (Optional)
- Data stored in PC server with RS-485 connectivity and password protection (Optional with software)
- PLC with touch screen HMI fully protected with password, instead of PID controller for precise control of temperature and humidity (optional)
- Standby refrigeration system available for uninterrupted functioning (Optional)
- Standby humidity system available for uninterrupted functioning (Optional)
- Multipoint Temperature and Humidity logger with printout facility (optional)
- GSM mobile alert in case of temperature and humidity deviations beyond specified Limits (Optional with software)
- Magnetic door lock system with biometrics for door access and software to monitor door open log (Optional)
- Validation protocol with IQ, OQ, PQ Documentation

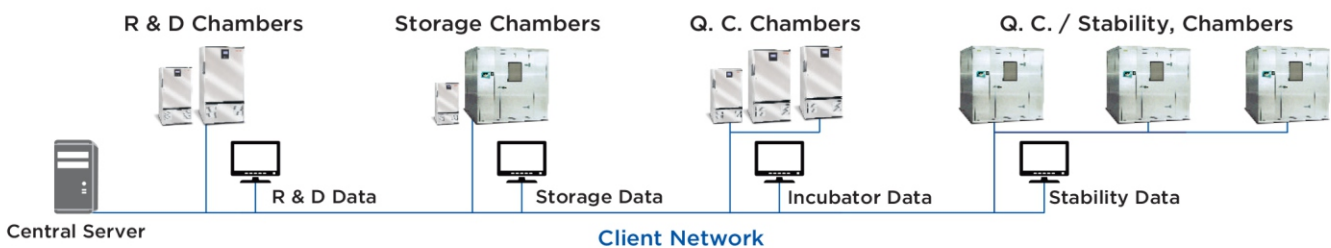
Walk-in Chambers



- 1) Intelligent PLC/PID control system helps maintain highly accurate set parameters
- 2) Biometrics system for secured door access
- 3) Dual Capacitance type Humidity Sensors failure of one sensor automatically transfers regulation to other sensor
- 4) Chamber illumination by fluorescent tubes
- 5) PUF Insulation 80mm for maximum thermal protection
- 6) Spring Door Latch for door closure
- 7) Blower Motor for forced air circulation
- 8) Control panel with Data-logger, PC connectivity and electrical components
- 9) Standby refrigeration by Compressor-1 and Compressor-2
- 10) Standby humidity by Heater-1 and Heater-2
- 11) Emergency bell switch to open the door from inside
- 12) Highly ergonomic handle with unique multi lever key lock
- 13) SS Racks and Trays



CHAMBERS CONNECTIVITY CHART



LCD Display

Features

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm

Touch Screen Display

Features

- 7 inch big colour touch screen
- PLC (Programable logic controller)
- Memory of 9,000 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Programmable cyclic timer for controlling illumination conditions
- Remi 'Datasoft' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)
- Password protected door opening (Optional)

REMI 'Data Soft'

Features

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with RS-485 connectivity and can be monitored on any PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- GSM Mobile Alert for six Numbers
- Power failure and resumption recorded with date and time

Optional Accessories

To be Ordered separately

- Data logger for 8 Point temperature recording with sensor printer interface and software
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature and humidity at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- Standby Humidity System
- GSM alert through SIM card

Technical Data

| WALK-IN STABILITY CHAMBERS | WSC-50 | WSC-80 | WSC-100 | WSC-120 | WSC-150 |
|------------------------------------|---|--------------------|--------------------|--------------------|--------------------|
| WALK-IN COLD ROOM | WCR-50 | WCR-80 | WCR-100 | WCR-120 | WCR-150 |
| Internal Volume (Liters) | 5000 | 8000 | 10000 | 12500 | 15000 |
| Number of Shelves | 16 | 24 | 32 | 48 | 48 |
| Internal Dimensions W x D x H (mm) | 1250 x 2000 x 2000 | 2000 x 2000 x 2000 | 2000 x 2000 x 2500 | 2000 x 2500 x 2400 | 2500 x 2500 x 2400 |
| External Dimensions W x D x H (mm) | 1410 x 2360 x 2160 | 2160 x 2360 x 2160 | 2160 x 2360 x 2660 | 2160 x 2860 x 2560 | 2660 x 2860 x 2560 |
| Internal Body Material | Stainless Steel 304 grade (Standard Models), Stainless Steel 316 grade (GMP Models) | | | | |
| External Body Material | Powder Coated CRCA Steel (Standard Models), Stainless Steel 304 grade (GMP Models) | | | | |
| Insulation | 80 mm minimum, CFC free polyurethane foam | | | | |
| Illumination | Fluorescent Tubes | | | | |
| Control & Display | Microprocessor based PID control system with large 4" LCD Display | | | | |
| Power Failure Alarm | Audio Visual Alarm | | | | |
| Door Open Alarm | Audio Alarm in case door open for over one minute | | | | |

Supply: 220-240 Volts, 50 Hz Single Phase.

| | Walk-In Stability Chambers | Walk-In Cold Rooms |
|--------------------------------|--|---------------------------------------|
| Sensor | Capacitance type direct reading | PT-100 |
| Temperature Range & Accuracy | 20°C to 60°C, $\pm 1^\circ\text{C}$ | 2°C to 8°C, $\pm 1^\circ\text{C}$ |
| Humidity Range (RH) & Accuracy | 40% to 95%, $\pm 3\%$ RH | xx |
| Audio Visual Variation Alarm | Set Humidity $\pm 3\%$ RH, Set Temperature $\pm 2^\circ\text{C}$ | Set Temperature $\pm 2^\circ\text{C}$ |

CO₂ incubators find applications in tissue engineered products, in-vitro fertilization, diagnostics, cancer research and other medical, pharmaceutical related industries. CO₂ incubators are used to culture cells to provide it with the optimum temperature, moisture (sterile environment) and to maintain optimum pH under a CO₂ atmosphere.

Salient Features :

- Imported infrared CO₂ Sensor.
- CO₂ concentration Restoration Speed.
- Polished stainless-steel chamber, rounded corners for easy cleaning. Adjustable shelves.
- Microorganism Filter at Inlet provides 99% filtration of bacteria and dust ($\Phi < 0.3\mu\text{m}$) and supplies pure CO₂ into the incubator.
- Door temperature controller prevents condensate water on glass door of incubator effectively.
- Independent audio-visual temperature limiting alarm system.
- Alarm function for temperature difference, CO₂ over concentration and concentration difference, door open time, UV working status.
- Automatic control of fan speed to maintain uniform temperature and prevent damage to samples.
- Hot air sterilizing circulation system.
- PID controller with large LCD screen ensures precise and reliable control



RCO-150 Plus

Technical Data

| Model | RCO-80 Plus | RCO-150 Plus |
|-------------------------------------|---|--------------|
| Chamber Volume (Liters) | 80 | 150 |
| Sensor | Infrared CO ₂ | |
| Heating Method | Air-Jacketed, PID Control | |
| CO ₂ Range | 0~20% V/V | |
| CO ₂ Control resolution | ± 0.1% (IR sensor) | |
| Temperature Range | RT+5~55°C | |
| Temperature Stability | ±0.1°C | |
| Humidity Method | Natural vaporization > 95% | |
| CO ₂ Recovery | (Door open 30s, recovery to 5%) ≤ 3 min | |
| Temperature Recovery | (Door open 30s, recovery to 37°C) ≤ 8 min | |
| Shelves | 2 | 3 |
| Interior Dimension (mm) (W x D x H) | 400x450x500 | 480x530x610 |
| Exterior Dimension (mm) (W x D x H) | 590x687x790 | 670x767x880 |

Supply: 220-240 Volts, 50 Hz Single Phase

Blood Banking Equipments



Thawing Bath



Blood Collection Monitor



Benchtop Tube Sealer



Therapeutic Chair



Refrigerated Centrifuge



Platelet Incubator



Plasma Freezer



Blood Storage Cabinet

Critical Care & Patient Support Equipments



Flabo - x



PRP Centrifuge



Mobile Transport Box



OmniCard 12c



OmniCard 12i



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