



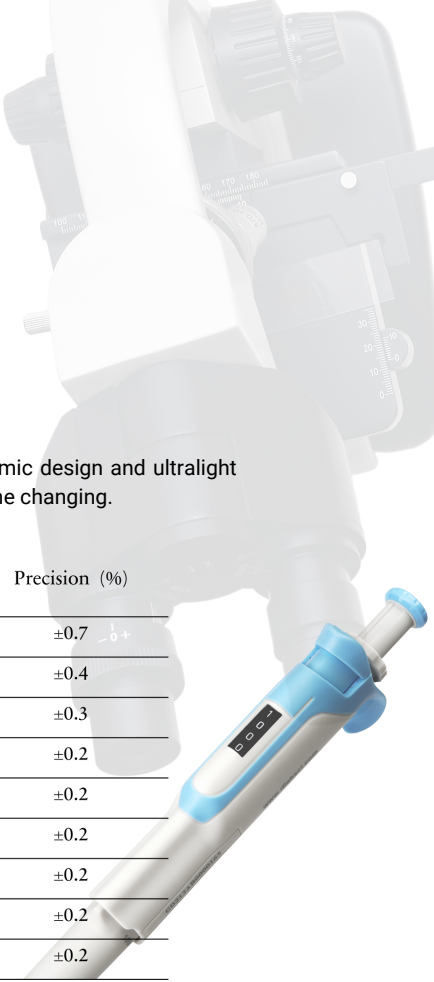
General Equipment Pipetting Systems



Single Channels, HiPette

Fully autoclavable manual pipettes with an ergonomic design and ultralight weight. Volume lock helps prevent accidental volume changing.

| Vol Range (μL) | Increments (μL) | Max Vol. accuracy (%) | Precision (%) |
|----------------|-----------------|-----------------------|---------------|
| 0.1 – 2.5 | 0.002 | ±1.4 | ±0.7 |
| 0.5 – 10 | 0.01 | ±1.0 | ±0.4 |
| 2 – 20 | 0.02 | ±1.0 | ±0.3 |
| 10 – 100 | 0.1 | ±0.8 | ±0.2 |
| 20 – 200 | 0.2 | ±0.6 | ±0.2 |
| 30 – 300 | 0.2 | ±0.6 | ±0.2 |
| 100 – 1000 | 1 | ±0.6 | ±0.2 |
| 500 – 5000 | 5 | ±0.6 | ±0.2 |
| 1000 – 10000 | 10 | ±0.6 | ±0.2 |



Multi-Channels, MicroPette+

Half autoclavable manual multi-channel pipettes with a streamlined shape design. Easy calibration and maintenance.

| | Vol Range (μL) | Increments (μL) | Max Vol. accuracy (%) | Precision (%) |
|-------------|----------------|-----------------|-----------------------|---------------|
| 8-Channels | 0.5 – 10 | 0.1 | ±1.5 | ±1.5 |
| | 5 – 50 | 0.5 | ±1.0 | ±0. |
| | 50 – 300 | 5 | ±0.75 | ±0.25 |
| 12-Channels | 0.5 – 10 | 0.1 | ±1.5 | ±1.5 |
| | 5 – 50 | 0.5 | ±1.0 | ±0.5 |
| | 50 – 300 | 5 | ±0.7 | ±0.25 |





General Equipment Pipetting Systemns

Electronic Single Channels, dPette

- Motor-driven digitally control pipette with multifunction
- Easy Operations and Handling
- Minimal force for pipetting operations
- 2 buttons for all operational settings

| Vol Range (μL) | Increments (μL) | Max Vol. accuracy (%) | Precision (%) |
|----------------|-----------------|-----------------------|---------------|
| 0.5 – 10 | 0.01 | ±1.0 | ±0.5 |
| 5 – 50 | 0.1 | ±0.8 | ±0.3 |
| 30 – 300 | 1 | ±0.6 | ±0.2 |
| 100 – 1000 | 5 | ±0.6 | ±0.2 |



Electronic Multi-Channels, dPette+

High-performance 8-channel electronic pipette offers productive pipetting with its easy to understand operations.

| Vol Range (μL) | Increments (μL) | Max Vol. accuracy (%) | Precision (%) |
|----------------|-----------------|-----------------------|---------------|
| 0.5 – 10 | 0.01 | ±0.2 | ±0.1 |
| 10 – 100 | 0.1 | ±0.8 | ±0.3 |
| 30 – 300 | 1 | ±1.8 | ±0.9 |



Complimentary Pipette Holder with USB charging





General Equipment Liquid Handling Systemns

Electronic Bottle Top Dispenser, dDISP

A bottle top dispenser is a common lab instrument that is used to dispense precise amounts of chemicals/ reagents, organic and inorganic solvents, oils, etc. from bottles or other containers.

- Volume Range: 0.1 - 99.9mL
- Digital operation
- Electronic control provides a fatigue-free operation
- Remote control panel prevents manual disturbance during operation
- Stepper Function, for dispensing series



Manual Bottle top dispenser, DISP-PRO

Seamless glass piston and socket design, with strong chemical resistance, smooth and low resistance operation.

- High chemical resistance of all dispensing components
- Fully autoclavable at 121°C
- Available in 5 sizes for dispensing volumes from 0.5mL to 100mL
- Reagent recovery function reduces waste and prevents dripping when not

| Volume Range mL | Graduation mL | A \leq ± | | CV \leq | |
|-----------------|---------------|------------|---------|-----------|---------|
| | | % | μ L | % | μ L |
| 0.5-5 | 0.1 | 0.5 | 25 | 0.2 | 10 |
| 1.0-10 | 0.2 | 0.5 | 50 | 0.2 | 20 |
| 2.5-25 | 0.5 | 0.5 | 125 | 0.2 | 50 |
| 5.0-50 | 1.0 | 0.5 | 250 | 0.2 | 100 |
| 10-100 | 2.0 | 0.5 | 500 | 0.2 | 200 |





General Equipment

Mixer Systems



Vortex Mixer, Adjustable Speed, VMX-S

The Vortex Mixers are ideal instruments for mixing liquid components in tubes, resuspension of cells, using an eccentric mechanism.

- Touch operation or continuous mode
- Variable speed control from 0 to 2500rpm
- Used for various mixing applications with optional adapters
- Specially designed vacuum suction feet for body stability
- Robust aluminum-cast construction

Enquire about your required tube adapter accessories



Roller Mixer, Roller Mixer Series

Roller mixers provide a gentle but highly efficient rocking and rolling motion, ideal for mixing blood samples, viscous substances, and liquid-solid suspensions.

- Speed range: 10rpm-80rpm
- Rocking motion: Rolling/Swinging
- Numbers of rollers: 6
- Digital speed control and LED display
- Prevent blood clotting and immunoprecipitation



RMX-TR-S

| Cat No | Speed Range (rpm) | Motion | Roller Length(cm) | Dimensions (W×D×H) (cm) |
|-----------|-------------------|-------------------|-------------------|-------------------------|
| RMX-TR-S | 10 – 80 | Rolling | 28 | 23 x 44 x 12 |
| RMX-TR-SR | 10 - 80 | Rolling, Swinging | 28 | 23 x 44 x 12 |



General Equipment

Hot Plates and Stirrers



HPS-380-I

Single Hotplate Stirrers

Aluminium cover with ceramic work plate allows for immediate heat transfer. Used for mixing and heating aqueous solutions with an external temperature sensor for better temperature control

- Ceramic coated heating plate
- Brushless DC motor
- IP21 protection
- Operatable in 5 - 40°C and 80% humidity



HPS-280

| Cat No | Speed Range (rpm) | Max Volume (L) | Dimension (WxDxH) (mm) | Max Heating Temperature |
|------------|-------------------|----------------|------------------------|-------------------------|
| HPS-280 | 200 - 1500 | 3 | 150 × 260 × 100 | 280°C |
| HPS-380-I | 200 - 1500 | 5 | 320 × 180 × 108 | 380°C |
| HPS-340PII | 50 - 1500 | 20 | 160 x 270 x 75 | 340°C |

Magnetic Multi-position Stirrers

A magnetic stirrer or magnetic mixer is a laboratory device that employs a rotating magnetic field to cause a stir bar immersed in a liquid to spin very quickly, thus stirring it.

- Mix up to 10 solutions simultaneously
- Brushless DC motor
- IP21 protection
- Operatable in 5 - 40°C and 80% humidity



MGS-M10

| Cat No | Speed Range (rpm) | Stirring Position | Dimension (WxDxH) (mm) | Max Heating Temperature |
|--------------|-------------------|-------------------|------------------------|-------------------------|
| MGS-M8 | 200 - 1200 | 8 | 205 x 480 x 50 | - |
| HPS-M120-8 | 200 - 1200 | 8 | 205 x 480 x 50 | 120°C |
| MGS-M10 | 0 - 1100 | 10 | 622 × 205 × 65 | - |
| HPS-M120-S10 | 0 - 1100 | 10 | 622 × 205 × 65 | 120°C |



General Equipment Shaking Systems

Shaker Series

Shakers are used for gentle mixing of liquid solutions and suspensions. It is suitable for culturing microbes, washing blots. Shaking motion can be characterized into four types: Linear, Orbital, Rocking, and 3D.

- IP21 protection
- Operatable in 5 - 40°C and 80% humidity
- DC motor
- Accessories available



SHK-00310

| Cat No | Motion | Speed Range (rpm) | Max Capacity (kg) | Dimension (W×D×H) (mm) |
|------------|-------------|-------------------|-------------------|------------------------|
| SHK-O0320 | Orbital | 40 – 200 | 3 | 270 × 330 × 110 |
| SHK-O0310 | Orbital | 70 – 400 | 3 | 420 × 370 × 110 |
| SHK-L0710 | Linear | 100 – 350 | 7.5 | 370 × 420 × 100 |
| SHK-R1009 | Rocking, 9° | 10 – 70 | 10 | 360 × 410 × 200 |
| SHK-TD0509 | 3D, 9° | 10 – 70 | 5 | 360 × 430 × 106 |



SHK-00710



SHK-0320



SHK-L0710



Enquire for high capacity shakers

SHK-R1009



General Equipment Centrifuge Systems



119400010

High Speed Mini Centrifuge, CFG-Mini15D

Centrifuges are used to separate insoluble phases in a liquid mixture or suspension. A piece of essential equipment in all laboratories.

- Brushless DC motor
- Max. Speed: 15000rpm
- Max. RCF: 15100×g
- ≤54dB
- 2mL/1.5mL×12, 0.2mL×12, 0.5mL×12 Rotor



119500001 - 0.2mL rotor adapter

119500002 - 0.5mL rotor adapter



Refrigerated High-speed Microcentrifuge, CFGR-15D

7 minutes to cool from room temp to 4°C, refrigerated centrifuges allow for spinning of temperature-sensitive samples. Bio-safe with bio sealing rotor.

- Brushless DC motor
- Max. Speed: 15000rpm
- Max. RCF: 21380×g
- ≤56dB
- 1.5/2mL×24, 0.5mL×36, PCR8×4, 5mL×12, 5mL×18 capacity
- Non-refrigerated version available - CFG-15D



19400006



19400007



19400012



19400032



19400008



19500001, 19500002, 19500003





General Equipment Incubating Systems

Shaking Incubators

Shaking incubators combine the functions of a traditional incubator and a laboratory shaker for efficient performance in applications like cell aeration, studies of solubility, and cell culture.

- Clamps and accessories available
- Auto-stop operation when the door is opened
- Brushless DC motor



ICB-S570

| Cat No | Door opening | Shaking speed (rpm) | Temperature (°C) | Volume (L) | Dimension (W×D×H) (mm) |
|------------|--------------|---------------------|------------------|------------|------------------------|
| ICB-S170-B | Sideways | 40 – 300 | 4 – 60 | 170 | 660 x 440 x 650 |
| ICB-S570 | Sideways | 40 – 300 | RT+ 5 - 60 | 582 | 1095 x 625 x 850 |
| ICB-S20 | Upwards | 20 - 300 | RT+ 5 - 60 | 180 | 440 × 410 × 390 |
| ICB-S50 | Upwards | 20 - 300 | RT+ 5 - 60 | 480 | 600 × 580 × 510 |
| ICB-S80 | Upwards | 20 - 300 | 4 – 60 | 900 | 780 x 682 x 560 |



ICB-S20

Cooling Incubators

- Interior Volume: 70L, 150L, 250L
- Temp. range: 0~65°C
- Inner Chamber: Mirror Stainless Steel
- Insulation layer: Polyurethane
- Compressor: Air-cooled hermetic compressor

| Cat No | Temperature (°C) | Volume (L) | Dimension (W×D×H) (mm) |
|-----------|------------------|------------|------------------------|
| ICB-B70S | 0 – 65 | 70 | 580 x 610 x 1190 |
| ICB-B150S | 0 – 65 | 150 | 660 x 760 x 1290 |
| ICB-B250S | 0 – 65 | 250 | 760 x 760 x 1530 |



ICB-B150S

Enquire for stacked incubators



ICB-2S200



ICB-2S205



ICB-2S80R



General Equipment

Rotary Evaporator System



RE100-P

Rotary Evaporator

A rotary evaporator (rotovap) is a device used in chemical laboratories for the efficient and gentle removal of solvents from samples using heat and reduced pressure. An essential system for the fabrication of lipid bilayers and liposomes.

| Cat No | Life Mechanism | Speed Range (RPM) | Max Temperature (°C) | Dimension (W x D x H) (mm) |
|---------|----------------|-------------------|----------------------|----------------------------|
| RE100-P | Automatic | 20 – 280 | 180 | 465 x 457 x 583 |
| RE100-S | Manual | 20 – 280 | 180 | 440 x 320 x 450 |

Recommended Accessories

1. CCP5-15 - Low Temperature Circulator

Ensures double helix condensing tube (1200cm²) remains cool for the condensation of aqueous and organic solvents.

2. C410 Vacuum Pump

- Motor Speed: 1700 rpm, 1450 rpm
- Vacuum: 2-13 mbar
- Outlet: 10mm
- Pumping Speed: 25L/min
- Two-stage pump
- Built-in thermal protection device

3. VC100 Vacuum Controller

- Vacuum Setting Range: 1-1000m bar
- Control Operation Mode: Single-point/Programmed
- Setting Method: Touch screen setting
- Materials in contact with vapor: PTFE, PP, silicone, and ceramics

1





2

3



RE100-S

Seals and other accessories

| Cat. No. | Description | |
|----------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 18202027 | PTFE vacuum seal |  |
| 18900362 | Ultra resistant FFKM seal for applications with highly abrasive solutions |  |
| 18900190 | Evaporation flask clip(red) CS002440 |  |
| 18900188 | Evaporation flask clip(green) CS002942 |  |



General Equipment Measurement Systems

Weighing Balances

Precision and Analytical balances serve to accurately and precisely measure liquid and solid masses. Balances come with dusk covers.

| Cat No | Readability (g) | Repeatability (g) | Pan Size (mm) | Dimension (W×D×H) (mm) |
|----------|-----------------|----------------------------|---------------|------------------------|
| BP-300-B | 0.1 | 0.2 | Φ130 | 270 x 195 x 85 |
| BR-600-B | 0.1 | 0.2 | Φ130 | 270 x 195 x 85 |
| BP-1K-B | 0.1 | 0.2 | Φ130 | 270 x 195 x 85 |
| BP-2K-B | 0.1 | 0.2 | Φ130 | 270 x 195 x 85 |
| BA-P2104 | 0.0001 | 0.1mg if the weight ≤ 220g | Φ80 | 345 x 215 x 345 |
| BA-P3104 | 0.0001 | | Φ80 | 345 x 215 x 345 |
| BA-P4104 | 0.0001 | 0.3mg from 220g to 310g | Φ80 | 345 x 215 x 345 |
| BA-P5104 | 0.0001 | 0.35mg from 310g to 610g | Φ80 | 345 x 215 x 345 |
| BA-P6104 | 0.0001 | | Φ80 | 345 x 215 x 345 |



BA-P Series



BP-B Series

Benchtop pH meter

A pH meter is an instrument used to measure hydrogen ion (H⁺) activity in solutions. The degree of hydrogen ion activity is ultimately expressed as pH level, which generally ranges from 1 to 14. It provides a more accurate pH reading as compared to a universal paper

- Comes with pH buffer powders (4.01, 7.00, 10.01)
- Temperature compensation ensures accurate results

| Cat No | pH resolution | mV resolution | Temperature resolution (°C) | Dimension (W×D×H) (mm) |
|--------|---------------|---------------|-----------------------------|------------------------|
| PHS-3E | 0.01 | 1mV | 0.1 | 290 x 210 x 95 |
| PHS-3C | 0.01 | 1mV | - | 290 x 210 x 95 |
| PHS-2F | 0.01 | 1mV | - | 290 x 210 x 95 |

Enquire for portable pH, conductivity meters





General Equipment

Drying Systems



Forced Air Drying Oven

Drying ovens raise the temperature to up to 300 degrees. Its purpose is to heat, dry, harden, sterilize glassware, accessories, and other materials.

- Forced air convection
- Room Temp. + 10 - 300°C
- $\pm 2.5\%$ temperature uniformity
- Max 15kg per rack

| Cat No | Exhaust Hole | Volume (L) | Dimension (W×D×H) (mm) |
|---------|--------------------|------------|------------------------|
| DOF-85 | Φ28mm top | 85 | 590 x 610 x 830 |
| DOF-625 | Top double exhaust | 625 | 890 x 925 x 1830 |

Vacuum Oven Series

A vacuum drying oven is most often used for delicate drying processes, such as drying tiny parts or removing flammable solvents. The low-pressure environment also minimizes oxidation during drying.

- Vacuum degree range <133Pa
- Room Temp. + 10 - 250°C
- $\pm 1^\circ\text{C}$ temperature uniformity
- Max 15kg per rack

| Cat No | Heating-Up Time (min) | Volume (L) | Dimension (W×D×H) (mm) |
|---------|-----------------------|------------|------------------------|
| DOV-25S | 80 | 24 | 480 x 480 x 606 |
| DOV-55S | 100 | 52 | 670 x 645 x 906 |





General Equipment Freeze Drying Systems

Benchtop Freeze Dryers

Freeze-drying, or lyophilization, is a low-temperature dehydration process that involves freezing the product, lowering pressure, then removing the ice by sublimation.

- -60°C Final condenser temperature
- 6.5L Condenser volume
- 3kg/24h Ice capacity
- $\phi 200\text{mm}$ Tray dimension
- <10Pa Vacuum

| Cat No | Freeze Drying Area (m ²) | Shelves | Chambers manifold | Dimension (W×D×H) (mm) |
|------------|--------------------------------------|---------|-------------------|------------------------|
| LYO60B-1S | 0.12 | 4 | - | 582 x 541 x 684 |
| LYO60B-1T | 0.09 | 3 | - | 582 x 541 x 684 |
| LYO60B-1P | 0.12 | 4 | 8 | 582 x 541 x 684 |
| LYO60B-1PT | 0.09 | 3 | 8 | 582 x 541 x 684 |



LYO60B-1P



LYO60B-1S

Floor Standing Freeze Dryers

Floor standing freeze dryers allow for lower final condenser temperature of -80°C

- -55°C Final condenser temperature available (LYO60V)
- 9.5L Condenser volume
- 4kg/24h Ice capacity
- <10Pa Vacuum

| Cat No | Freeze Drying Area (m ²) | Shelves | Chambers manifold | Dimension (W×D×H) (mm) |
|------------|--------------------------------------|---------|-------------------|------------------------|
| LYO80V-2S | 0.18 – 0.27 | 4 – 6 | - | 560 x 710 x 1390 |
| LYO80V-2T | 0.135 | 3 | - | 560 x 710 x 1390 |
| LYO80V-2P | 0.18 – 0.27 | 4 - 6 | 8 | 560 x 710 x 1390 |
| LYO80V-2PT | 0.135 | 3 | 8 | 560 x 710 x 1390 |



LYO80V-2S



LYO80V-2PT



Enquire for higher capacity freeze dryers

| | | | | | |
|------------------|--|----------------------------------------|--|-----------------------------------|--|
| Stopper chamber | | Standard stopper with 8 port manifolds | | Standard chamber with 8 manifolds | |
| Standard chamber | | Stainless steel with 8 port manifolds | | Valve and freeze drying bottle | |
| Isolation valve | | 24 EA drying shelf | | Stainless steel drying chamber | |



General Equipment Cleaning systems

Glassware Washer, LWD-200

The spraying of cleaning water and the dissolution and stripping of cleaning solution can assist in cleaning off organic and inorganic residues. Integrated hot air injection drying systems for drying glassware after washing. Safe door lock design prevents doors from opening during the cleaning process.

- Capacity: 200L
- Washer Load Level: 2
- water heating power: $\geq 5\text{KW}$ fast heating
- Water temperature control: room temperature to 99°C
- Dimensions: 980 x 740 x 1100mm



WR80/WR01-BK
Becker racks



WR130
Test tube racks

Digital Ultrasonic Cleaner, USC0440D

Utilizing heat and acoustic energy for removing organic and inorganic residues. In addition, ultrasonic baths can be used for emulsification or solvent degassing.

- Ultrasonic Power(W): 180
- Max temperature setting: 80°C
- Tank capacity: 4.5L
- Ultrasonic Freq.: 40kHz
- Timer Setting: 1 - 30min
- Cleaning basket available



Enquire for different capacity glassware washers and ultrasonic bath cleaners



General Equipment Bath Systems

Water Bath Shaker, SHK-W100

Water bath shaker is an experimental instrument which combines a thermostat bath with a moderate oscillator. It is widely used in researching bacterial culture, fermentation, hybridization, biochemical reactions, enzyme and cell tissue, which have high requirements on temperature and oscillation frequency.

- Temperature: R.T.+5~100°C
- Timing: 1s~99m59s
- Speed: 30-200 rpm
- Temp. Accuracy: $\pm 0.5^{\circ}\text{C}$
- Temperature Uniformity: $\pm 1^{\circ}\text{C}$
- Capacity: 45 x 10mL tubes - 1 x 1000mL flask
- Dimension: 340x 470 x 355mm



Mini Dry Bath Incubator, DBI-S100II

Mini dry bath incubator is a constant temperature dry bath incubator product controlled by microcomputer, which can be applied to palm-type constant temperature dry bath incubator of vehicle power supply.

- Max Temperature: 100°C
- Speed: 300 - 2000rpm
- Temperature stability (40°C): ± 0.3
- Temperature stability (100°C): ± 0.3
- Timing setting range: 1 - 999 min/s
- Dimension: 300 x 220 x 170mm



Enquire for different types of heating block



General Equipment Refrigeration Systems



Pharmaceutical Refrigerator

Double glass door refrigerators allow the storage of temperature-sensitive materials and samples.

- Temperature range: 2-8 °C
- Temperature variation within $\pm 3^{\circ}\text{C}$
- Cooling method: Forced Air Cooling System
- High/low temp. alarm
- Door ajar alarm
- Power failure backup system: 8h

| Cat No | Volume (L) | Compressors | Dimensions (W x D x H) |
|----------|------------|-------------|------------------------|
| PR5-660 | 660 | 1 | 1240 × 630 × 1895 |
| PR5-1000 | 1000 | 1 | 1240 × 820 × 1900 |
| PR5-1500 | 1500 | 1 | 1800 × 775 × 1965 |

Under Table Refrigerators

- Temperature range: 2-8 °C
- Temperature variation within $\pm 3^{\circ}\text{C}$
- Cooling method: Forced Air Cooling System
- High/low temp. alarm
- Door ajar alarm
- Power failure backup system: 8h



| Cat No | Volume (L) | Shelves | Dimensions (W x D x H) |
|---------|------------|---------|------------------------|
| PR5-60 | 60 | 2 | 495 × 450 × 710 |
| PR5-100 | 100 | 3 | 505 × 510 × 875 |

Enquire for single door refrigerators



General Equipment Refrigeration Systems



-25°C Vertical Freezer, LF25-530

CFC free refrigerant for environmentally friendly means to storage your samples. Top and bottom chambers function independently in event of compressor backdown

- Temperature range (°C): -25°C-10°C
- Compressors: 2 MEIZHI
- Capacity: 528L
- High/low temp. alarm
- Door ajar alarm
- Power failure backup system: 8h
- Dimension: 910 × 845 × 1875

-86 °C Freezer, ULF86 Series

Ultralow temperatures for the long term storage of materials, samples and sample preparation for lyophilization.

- Temperature range (°C): -86°C-40°C
- Compressors: 2 SECOP
- High/low temp. alarm
- Door ajar alarm
- Power failure backup system: 72h



| Cat No | Shelves | Racks | Capacity (L) | Power (W) | Dimension (mm) |
|-----------|---------|-------|--------------|-----------|--------------------|
| ULF86-340 | 3 | 12 | 338 | 870 | 880 x 980 x 1940 |
| ULF86-410 | 3 | 16 | 409 | 845 | 900 x 940 x 1940 |
| ULF86-590 | 3 | 16 | 588 | 815 | 880 x 1080 x 2000 |
| ULF86-730 | 3 | 18 | 728 | 935 | 1260 x 890 x 2010 |
| ULF86-940 | 3 | 24 | 838 | 890 | 1190 x 1045 x 2010 |

Enquire for chest and cryogenic -150°C freezers