

PHARMACEUTICAL & LABORATORY





ETS BIO FREEZE SDN. BHD. (717189-H) 易達制冷有限公司























ETS BIO Freeze Sdn Bhd is a high tech company specializes in design, manufacturing, develop latest technologies of Medical Blood Bank refrigerator, Pharmaceutical refrigerator and freezer, Vaccine Ice-lined storage unit, with more than 28 years of experience. The company is successfully presided perfect quality assurance system and certified by ISO13485, GDPMD, Local manufacturing and import license for medical devices.

What We Are Doing

- Refrigerators & freezers Pharmaceutical, Laboratory, Combined Refrigerator-Freezer, Ultra-low Temperature, Low Temperature, Chest Freezers, Blast Freezers, Ice-Lined Refrigerators, Upright Freezers
- Blood Banks, Incubators, Shake Incubators, Growth Chambers, Oven, Portable Freezer & Combined Refrigerator-Freezer, Ice Flakes Maker
- Mortuary Freezers, S/S Body Trolley, Autopsy Table
- Cold Room
- 🖶 Accessories Remote alarm monitoring system, Digital Thermometer, Temperature Recorder, Temperature Controller
- Cold-chain Logistics Solution
- ♣ After-sale Service & Repair, Electric Safety Test (EST), Planned & Preventive Maintenance (PPM), Temperature Calibration
- Loaner units
- OEM Service





Establishment License by MDA – As Manufacturer



Establishment License by MDA – Authorized Representative, Importer, Distributor







Certificate of Conformity – Good Distribution Practice For Medical Device (GDPMD)

ISO 13485: 2003



| 1 | Temperature Controllers ❖ LED & TOUCHSCREEN |
|------------|--|
| 2,3 | Blood Bank Refrigerators Single-door * 2-door & 3-door |
| 4,5 6,7 | Pharmaceutical Refrigerators ❖ E Series ❖ Single-door, 2-door & 3-door |
| 8 | Pharmaceutical Refrigerators Single-door, 2-door & 3-door |
| 9 | Pharmaceutical Refrigerators Sliding door / Pass-thru model |
| 10 | Low Temperature Freezer (Force Air) O°C to -25°C |
| 11,12 | Low Temperature Freezer -10°C to -40°C |
| 13 | Low Temperature Upright Freezer -10°C to -25°C (Manual Defrost) |
| 14,15 | Ultra-Low Temperature Freezer ❖ -10°C to -86°C |
| 16 | Low Temperature Chest Freezer • 0°C to -25°C |
| 17 | Low Temperature Chest Freezer -10°C to -40°C |
| 18 | Stability Chamber (Incubator) |
| 19 | Laboratory Combined Refrigerator- Freezer (for Blood Bank & Pharmacy) |
| 20 | Cold room / Freezer / Blast |
| 21 | Blast Freezer |
| 22 | Ice-Lined Refrigerator |
| 23 | Ice Flakes Maker |
| 24 | Portable Freezer & Combined Refrigerator-Freezer |
| 25,26 | Mortuary Refrigerator |
| 27,28 | Autopsy Table/ Body Trolley with Roller Kapan Trolley / Trolley Body |
| 29,30 | Preparation/ Washing Table / Hydraulic Body Lifting Trolley |
| 31 | Accessories |
| 32,33 | Sterilizing & Disinfecting Solution |
| 34 | Cold-chain Logistics Solution |
| 35 | Low Temperature Freezer -10°C to -25°C |
| 36 | DSM 9000 SMS Alarm System |









Temperature Controllers

LED Digital Temperature Controller

Smart Touch Screen Controller





Size: L135mm x H31mm

- ✓ Equipped with tamper-resistant touchpad and a digital temperature display to the nearest 0.1°C.
- ✓ User-friendly Temperature settings and alarm set points can be programmed quickly and easily.
- ✓ During power failure, battery back-up system supplies power to the monitor for at least 24 hours.
- ✓ The audio and visual alarms will be triggered when:
 - a) Hi & Low temperature
 - b) A. C. failure
 - c) Battery failure
 - d) Door opened for more than 2 minutes
 - e) Compressor failure
 - f) Condenser is overheated
- ✓ Compressor delay start-up, to protect compressor restart current surging
- ✓ Auto defrost and sensor error
- ✓ Remote alarm contact provided for off-site monitoring
- ✓ Password protection Lock-temperature function protects against tampering of set temperatures/values
- ✓ Off-set function for calibration use.
- ✓ Two (2) sensor probes available

Temperature setting range +2°C to +6°C

- ✓ Password protection
- ✓ 7" full touch screen controller
- ✓ Self diagnostic error code real time alarm indication
- √ Hi & Low temperature alarm setting
- ✓ Power failure alarm visual and audio
- ✓ Door open sensor alarm setting 0 to 60 minutes
- ✓ High condenser temperature sensor detection
- ✓ Defrost temperature interval time 0 to 24 hours
- ✓ Defrost duration 0 to 60 minutes
- External sensor access port
- ✓ Auto data acquisition with trend graph
- ✓ Build in standard remote alarm dry contact out put
- ✓ Sensor 1 to 5 calibration mode (build in with 5nos of sensor)
- ✓ Ambient temperature sensor
- ✓ Door fan switch control
- ✓ Graphical log running hours log
- ✓ Adjustable shelves or drawers
- ✓ RS 485 Output able to link up 32 units
- ✓ Dual compressor independent control maintain -80°C when one compressor down
- √ 72 hours DC backup battery
- ✓ CFC Freeze
- ✓ 220V to 240V 50Hz Single phase



Blood Bank Refrigerators

+2 to $+6^{\circ}$ C (*Preset at* $+4^{\circ}$ C)

Single-door (Touchscreen)

Blood Bank Refrigerators MBR Series by ETS incorporates the latest in cabinet, refrigeration, temperature control and alarm monitoring features. The MBR series are designed to provide convenience, safe and reliable performance for optimal storage temperature environments necessary for wide range of life science, laboratory, pharmacy, biological, medical, clinical and industrial applications.

Features:

- User-friendly design
- Precise microcomputer temperature control
- ✓ Roll-out drawers
- ✓ Heated glass door
- Forced-air circulation for enhanced temperature stability
- Easy-to-read LCD temperature display
- Visual and audible alarm alerts









MBR 70E

MBR 100E

MBR 200E

MBR 300E/ 600E / 700E

| Model | MBR 70E | MBR 100E | MBR 200E | MBR 300E | MBR 600E | MBR 700E | |
|------------------------------------|---------------------|--|------------------------|------------------------|----------------------|------------------|--|
| Dim. Ext (mm) W x D x H | 530 x 450 x 680 | 530 x 605 x 1350 | 660 x 600 x 1500 | 660 x 700 x 1800 | 720 x 810 x 2070 | 800 x 800 x 2070 | |
| Dim. Int (mm) W x D x H | 360 x 230 x 570 | 420 x 400 x 700 | 560 x 450 x 900 | 495 x 590 x 1200 | 615 x 680 x 1440 | 710 x 660 x 1510 | |
| Capacity | 70L | 100L | 200L | 300L | 600L | 700L | |
| 450ml bags # units | 20 bags | 60 bags | 90 bags | 120 bags | 300 bags | 360 bags | |
| Roll-our Drawers | Tray 1pc. | 2nos. | 3nos. | 4nos. | 6nos. | 6nos. | |
| Int. Chamber | | | Stainle | ss Steel | | | |
| Ext. Chamber | Epoxy powder coated | Stainless Steel | | Epoxy pow | der coated | | |
| Temp. Controller | To | ouchscreen / Large LC | D display with digital | microprocessor accu | racy ±1°C c/w 5 prob | es | |
| Temp. Fluctuation | | | ±1.0°C increment or | f temperature 0.1°C | | | |
| Insulation | | | 60r | mm | | | |
| Internal Air Circulation | | | Force | ed-air | | | |
| Refrigerant | | | R134a (| CFC Free | | | |
| Condenser Fan Motor | | | 1 no. aiı | r-cooled | | | |
| Defrost System | | | Auto Cyc | le Defrost | | | |
| Comp. Recip. Hermetic | 1/5 HP / 100W | 1/4 HP / 120W | 1/4 HP / 120W | 1/3 HP / 200W | 1/2 HP / 300W | 1/2 HP / 300W | |
| Light | | L | ED light with door sw | ritch (Manual ON/OFF | =) | | |
| Door | | Swir | g-out heated glass do | oor (self-closing with | lock) | | |
| Door Lock / Castor | 1 no. / Nil | 1 no. / 4 nos. | 1 no. /4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | |
| Access Port | | 1: | no. 30mm each (for to | emperature calibratio | on) | | |
| Drainage | | | Auto evaporatio | n for drain water | | | |
| Remote Alarm | | | Hi/Low, Po | wer Failure | | | |
| Power Voltage | | 240Vac 50Hz Single Phase (60Hz for others) | | | | | |
| Backup Alarm Buzzle | | DC 1 | 1.5V with power failu | re audible alarm 72 h | ours | | |
| Temperature Recorder | | 7 days 24-hour Round Chart Recorder | | | | | |
| * Accessories (Optional) | | | Door Fa | n Switch | | | |
| Safety Features & Certification | | ISO 13485, Electric | Safety Test (EST) IEC | 61010-1 (2010), GDP | MD, ISO IEC 17025 | | |



Blood Bank Refrigerators

+2 to $+6^{\circ}$ C (*Preset at* $+4^{\circ}$ C)

2-Door & 3-Door (Touchscreen)

Blood Bank Refrigerators MBR Series by ETS incorporates the latest in cabinet, refrigeration, temperature control and alarm monitoring features. The MBR series are designed to provide convenience, safe and reliable performance for optimal storage temperature environments necessary for wide range of life science, laboratory, pharmacy, biological, medical, clinical and industrial applications.

- ✓ User-friendly design
- Precise microcomputer temperature control
- ✓ Roll-out drawers
- ✓ Heated glass door
- Forced-air circulation for enhanced temperature stability
- Easy-to-read LCD temperature display
- ✓ Visual and audible alarm alerts







MBR 1600E

| Model | MBR 1050E | MBR 1400E | MBR 1600E-3 | | |
|---------------------------------|---|---|-------------------------|--|--|
| Dim. Ext (mm) W x D x H | 1230 x 810 x 2070 | 1540 x 850 x 2070 | 1880 x 800 x 2070 | | |
| Dim. Int (mm) W x D x H | 1130 x 680 x 1440 | 1390 x 710 x 1440 | 1755 x 650 x 1430 | | |
| Capacity | 1,050L | 1,400L | 1,600L | | |
| 450ml bags # units | 600 bags | 720 bags | 900 bags | | |
| Roll-out Drawers | 12 nos. | 12 nos | 15 nos. | | |
| Int. Chamber | | Stainless Steel | | | |
| Ext. Chamber | | Epoxy powder coated | | | |
| Temp. Controller | Touchscreen / Large LCD d | isplay with digital microprocessor accu | uracy ±1°C c/w 5 probes | | |
| Temp. Fluctuation | ±1 | 1.0°C increment of temperature 0.1°C | | | |
| Insulation | | 60mm | | | |
| Internal Air Circulation | | Forced-air | | | |
| Refrigerant | R134a C | FC Free | R407c CFC Free | | |
| Condenser Fan Motor | | 1 no. air-cooled | | | |
| Defrost System | | Auto Cycle Defrost | | | |
| Comp. Recip. Hermetic | 1/2 HP | 3/4 HP | 3/4 HP | | |
| Light | LED | light with door switch (Manual ON/OF | F) | | |
| Door | Swing-o | ut heated glass door (self-closing with | lock) | | |
| Door Lock / Castor | 2 nos. / 4 nos. | 2 nos / 4 nos | 3 nos. / 4 nos. | | |
| Access Port | 1 no. : | 30mm each (for temperature calibration | on) | | |
| Drainage | | Auto evaporation for drain water | | | |
| Remote Alarm | | Hi/Low, Power Failure | | | |
| Power Voltage | 240Vac 50Hz Single Phase (60Hz for others) | | | | |
| Backup Alarm Buzzle | DC 1.5V with power failure audible alarm 72 hours | | | | |
| Temperature Recorder | 7 days 24-hour Round Chart Recorder | | | | |
| * Accessories (Optional) | | Door Fan Switch | | | |
| Safety Features & Certification | ISO 13485, Electric Saf | ety Test (EST) IEC 61010-1 (2010), GDF | PMD, ISO IEC 17025 | | |

^{**} Capacity may vary according to the loading preferences and contents.



 $+2^{\circ}$ C to $+8^{\circ}$ C (E Series)

Single-door

ETS Pharmaceutical Refrigerators and freezers are designed and fabricated to meet the demanding requirements of scientific and laboratory applications. These refrigerators and freezers provide complete and integrated solutions for pharmaceuticals, medicines, biological products and reagents, etc. Suitable for pharmacy, laboratories, drug stores, research centres, pharmaceutical factories/companies, hospitals, clinics, healthcare, epidemic prevention centres, etc. Wide ranges of models are offered to accommodate your needs and requirements.

Features:

- User-friendly design
- Precise microcomputer temperature control
- Standard alarms and safety features
- Forced-air circulation for enhanced temperature stability
- Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor









VC 70E

VC 100E

VC 200E

VC 300E

| Model | VC 48 | VC 70E | VC 100E | VC 200E | VC 300E |
|---------------------------------|-----------------|------------------------|-------------------------|----------------------|----------------------------|
| Dim. Ext (mm) W x D x H | 530 x 450 x 680 | 480 x 500 x 900 | 530 x 605 x 1350 | 660 x 600 x 1500 | 600 x 700 x 1800 |
| Dim. Int (mm) W x D x H | 360 x 230 x 570 | 360 x 410 x 510 | 420 x 400 x 700 | 560 x 450 x 900 | 495 x 590 x 1200 |
| Capacity | 48L | 70L | 100L | 200L | 345L |
| Int. Chamber | | Stainle | ss Steel | | Stainless Steel / Epoxy |
| Ext. Chamber | | | Epoxy powder coated | | |
| Shelves | 1no | 4nos | | | |
| Temp. Controller | | Ten | np adjustable, LED disp | olay | |
| Temp Fluctuation | ±1.0°C | | | | |
| Internal Air Circulation | | | Forced-air | | |
| Refrigerant | | | R134a CFC Free | | |
| Glass Door | | 1 | no. Heated Glass Doo | or | |
| Door Lock / Castor | 1 no. / Nil | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. |
| Comp. Recip. Hermetic | 100W | 200W | 200W | 200W | 200W |
| Power Voltage | | 230Vac 50 | Hz Single Phase (60Hz | for others) | |
| Standard LED Alarm System | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | ٧ |
| - Remote Alarm Contact | | ٧ | ٧ | ٧ | ٧ |
| - Power Failure | | | ٧ | ٧ | ٧ |
| - 72-hour DC backup | | | ٧ | ٧ | ٧ |
| * Accessories (Optional) | | | Door Fan Switch | | |
| Safety Features & Certification | ISO 1348 | 5, Electric Safety Tes | st (EST) IEC 61010-1 (2 | 2010), GDPMD, ISO IE | C 17025 |

Optional: VC 48 MOQ



 $+2^{\circ}$ C to $+8^{\circ}$ C (E Series)

Single-door

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- ✓ User-friendly design
- ✓ Precise microcomputer temperature control
- Standard alarms and safety features
- Forced-air circulation for enhanced temperature stability
- Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor



VC 500E / 600E / 700E / 800E

| Model | VC 500E | VC 600E | VC 700E | VC 800E |
|---------------------------------|------------------|-------------------------------|---------------------------|------------------|
| Dim. Ext (mm) W x D x H | 640 x 800 x 2070 | 700 x 800 x 2070 | 800 x 800 x 2070 | 800 x 810 x 2245 |
| Dim. Int (mm) W x D x H | 540 x 650 x 1430 | 600 x 600 x 1510 | 710 x 660 x 1510 | 710 x 670 x 1670 |
| Capacity | 500L | 600L | 700L | 800L |
| Int. & Ext. Chamber | | Epoxy pow | der coated | |
| Shelves (hold 50kg) | 5pcs | 5pcs | 5pcs | 5pcs |
| Temp. Controller | | Temp adjustab | ole, LED display | |
| Temp Fluctuation | | ±1. | 0°C | |
| Internal Air Circulation | | Force | ed-air | |
| Refrigerant | | R134a (| CFC Free | |
| Glass Door | | 1 no. Heate | d Glass Door | |
| Door Lock / Castor | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. |
| Comp. Recip. Hermetic | 250W | 400W | 400W | 400W |
| Power Voltage | | 230Vac 50Hz Single Pl | hase (60Hz for others) | |
| Standard LED Alarm System | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ |
| - Remote Alarm Contact | ٧ | ٧ | ٧ | ٧ |
| - Power Failure | ٧ | ٧ | ٧ | ٧ |
| - 72-hour DC backup | ٧ | ٧ | ٧ | ٧ |
| * Accessories (Optional) | | Door Fa | n Switch | |
| Safety Features & Certification | ISO 13485, E | lectric Safety Test (EST) IEC | 61010-1 (2010), GDPMD, IS | SO IEC 17025 |



Pharmaceutical Refrigerators (1,050L – 2400L)

 $+2^{\circ}$ C to $+8^{\circ}$ C (E Series)

2-door & 3-door

ETS Pharmaceutical Refrigerators and freezers are designed and fabricated to meet the demanding requirements of scientific and laboratory applications. These refrigerators and freezers provide complete and integrated solutions for pharmaceuticals, medicines, biological products and reagents, etc. Suitable for pharmacy, laboratories, drug stores, research centres, pharmaceutical factories/companies, hospitals, clinics, healthcare, epidemic prevention centres, etc. Wide ranges of models are offered to accommodate your needs and requirements.

- ✓ User-friendly design
- ✓ Precise microcomputer temperature control
- ✓ Standard alarms and safety features
- Forced-air circulation for enhanced temperature stability
- ✓ Easy-to-read LED temperature display
- Visual and audible alarm alerts
- ✓ Low-noise compressor



VC 1050E / 1200E / 1400E



VC 1600E-3 / 1800E-3 / VC 2400E-3

| Model | VC 1050E | VC 1200E | VC 1400E | VC 1600E-3 | VC 1800E-3 | VC 2400E-3 | |
|---------------------------------|-------------------|--------------------|-------------------------|------------------------|-------------------|-------------------|--|
| Dim. Ext (mm) W x D x H | 1260 x 800 x 2070 | 1440 x 800 x 2070 | 1540 x 850 x 2070 | 1880 x 800 x 2070 | 2060 x 810 x 2070 | 2200 X 790 X 2070 | |
| Dim. Int (mm) W x D x H | 1150 x 650 x 1430 | 1315 x 650 x 1430 | 1390 x 710 x 1440 | 1755 x 650 x 1430 | 1935 x 650 x 1430 | 2050 X 660 X 1430 | |
| Capacity | 1,050L | 1,200L | 1,400L | 1,600L | 1,800L | 2,400L | |
| Int. & Ext. Chamber | | | Epoxy pow | der coated | | | |
| Temp. Controller | | | Temp adjustab | ole, LED display | | | |
| Temp Fluctuation | | | ±1. | 0°C | | | |
| Internal Air Circulation | | | Force | ed-air | | | |
| Refrigerant | | | R134a C | CFC Free | | | |
| Glass Door | | | Heated Glass | Double Door | | | |
| Door Lock / Castor | 2 nos. / 4 nos. | 2 nos. / 4 nos. | 2 nos. / 4 nos. | 3 nos. / 6 nos. | 3 nos. / 6 nos. | 3 nos. / 6 nos. | |
| Comp. Recip. Hermetic | 470W | 470W | 500W | 550W | 550W | 780W | |
| Power Voltage | | | 230Vac 50Hz Single Pl | hase (60Hz for others) | | | |
| Standard LED Alarm System | | | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | |
| - Remote Alarm Contact | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | |
| - Power Failure | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | |
| - 72-hour DC backup | ٧ | v v v v | | | | | |
| * Accessories (Optional) | Door Fan Switch | | | | | | |
| Safety Features & Certification | | ISO 13485, Electri | c Safety Test (EST) IEC | 61010-1 (2010), GDP | MD, ISO IEC 17025 | | |



 $+2^{\circ}C$ to $+8^{\circ}C$

Single-door

ETS Pharmaceutical Refrigerators and freezers are designed and fabricated to meet the demanding requirements of scientific and laboratory applications. These refrigerators and freezers provide complete and integrated solutions for pharmaceuticals, medicines, biological products and reagents, etc. Suitable for pharmacy, laboratories, drug stores, research centres, pharmaceutical factories/companies, hospitals, clinics, healthcare, epidemic prevention centres, etc. Wide ranges of models are offered to accommodate your needs and requirements.

Features:

- ✓ User-friendly design
- ✓ Precise microcomputer temperature control
- Standard alarms and safety features
- Forced-air circulation for enhanced temperature stability
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor





VC 70

VC 300 / 500 / 600 / 800

| Model | VC 70 | VC 300 | VC 500 | VC 600 | VC 800 | |
|---------------------------------|-----------------|--------------------------|--------------------------|------------------------|------------------|--|
| Dim. Ext (mm) W x D x H | 530 x 450 x 680 | 590 x 650 x 1660 | 640 x 800 x 2070 | 700 x 800 x 2070 | 790 x 810 x 2245 | |
| Dim. Int (mm) W x D x H | 360 x 230 x 570 | 490 x 550 x 1200 | 540 x 650 x 1430 | 640 x 640 x 1430 | 660 x 720 x 1670 | |
| Capacity | 70L | 300L | 500L | 600L | 800L | |
| Int. & Ext. Chamber | | | Epoxy powder coated | | | |
| Shelves (hold 50kg) | 1pc | 4pcs | 5pcs | 5pcs | 5pcs | |
| Temp. Controller | | Ter | np adjustable, LED disp | lay | | |
| Temp Fluctuation | | | ±1.0°C | | | |
| Internal Air Circulation | | | Forced-air | | | |
| Refrigerant | | | R134a CFC Free | | | |
| Glass Door | | S | ingle Heated Glass Doo | r | | |
| Door Lock / Castor | 1 no. / Nil | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | |
| Comp. Recip. Hermetic | 1/3 HP | 1/4 HP | 1/2 HP | 1/2 HP | 1/2 HP | |
| Power Voltage | | 230Vac 50 | Hz Single Phase (60Hz f | or others) | | |
| Standard LED Alarm System | | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | ٧ | |
| - Remote Alarm Contact | | ٧ | ٧ | ٧ | ٧ | |
| - Power Failure | | ٧ | ٧ | ٧ | ٧ | |
| - 72-hour DC backup | V V V | | | | | |
| * Accessories (Optional) | Door Fan Switch | | | | | |
| Safety Features & Certification | ISO 13 | 3485, Electric Safety Te | st (EST) IEC 61010-1 (20 | 010), GDPMD, ISO IEC : | 17025 | |

• Touchscreen controller optional item



 $+2^{\circ}C$ to $+8^{\circ}C$

2-door & 3-door

ETS Pharmaceutical Refrigerators and freezers are designed and fabricated to meet the demanding requirements of scientific and laboratory applications. These refrigerators and freezers provide complete and integrated solutions for pharmaceuticals, medicines, biological products and reagents, etc. Suitable for pharmacy, laboratories, drug stores, research centres, pharmaceutical factories/companies, hospitals, clinics, healthcare, epidemic prevention centres, etc. Wide ranges of models are offered to accommodate your needs and requirements.

- ✓ User-friendly design
- Precise microcomputer temperature control
- Standard alarms and safety features
- Forced-air circulation for enhanced temperature stability
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor







VC 1000 / 1200 / 1400

VC 1800-2

VC 1600-3 / 1800-3

| Model | VC 1000 | VC 1200 | VC 1400 | VC 1800-2 | VC 1600-3 | VC 1800-3 | |
|---------------------------------|-------------------|--|------------------------|------------------------|----------------------|-------------------|--|
| Dim. Ext. (mm) W x D x H | 1260 x 800 x 2070 | 1440 x 800 x 2070 | 1540 x 850 x 2070 | 1630 x 790 x 2245 | 1878 x 800 x 2070 | 2055 x 810 x 2070 | |
| Dim. Int. (mm) W x D x H | 1150 x 650 x 1430 | 1315 x 650 x 1430 | 1390 x 710 x 1440 | 1485 x 720 x 1670 | 1760 x 690 x 1430 | 1955 x 710 x 1430 | |
| Capacity | 1,050L | 1,200L | 1,400L | 1,800L | 1,600L | 1,800L | |
| Int. & Ext. Chamber | | | Epoxy pow | der coated | | | |
| Temp. Controller | | | Temp adjustab | le, LED display | | | |
| Temp Fluctuation | | | ±1.0 |)°C | | | |
| Internal Air Circulation | | | Force | d-air | | | |
| Refrigerant | | | R134a C | FC Free | | | |
| Glass Door | | Heated Glass | Double Door | | Heated Glass 3-Door | | |
| No. of Shelves | 10pcs | 10pcs | 10pcs | 10pcs | 15pcs | 15pcs | |
| Light | 1pc | 1pc | 1pc | 1pc | 2pcs | 2pcs | |
| Door Lock / Castor | 2 nos./4 nos. | 2 nos./4 nos. | 2 nos./4 nos. | 2 nos./4 nos. | 3 nos./4 nos. | 3 nos./4 nos. | |
| Comp. Recip. Hermetic | 1/3 HP | 3/4 HP | 3/4 HP | 3/4 HP | 3/4 HP | 3/4 HP | |
| Power Voltage | | | 230Vac 50Hz Single Ph | nase (60Hz for others) | | | |
| Standard LED Alarm System | | | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | ٧ | √ | |
| - Remote Alarm Contact | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | |
| - Power Failure | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | |
| - 72-hour DC backup | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | |
| * Accessories (Optional) | | LCD Digital Display | , USB Data Logger, Dra | wer(s), Chart Recorder | r, Fan door switch | | |
| Safety Features & Certification | | ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025 | | | | | |



+2°C to +8°C (Sliding Door / Pass-thru Model)

ETS Pharmaceutical Refrigerators and freezers are designed and fabricated to meet the demanding requirements of scientific and laboratory applications. These refrigerators and freezers provide complete and integrated solutions for pharmaceuticals, medicines, biological products and reagents, etc. Suitable for pharmacy, laboratories, drug stores, research centres, pharmaceutical factories/companies, hospitals, clinics, healthcare, epidemic prevention centres, etc. Wide ranges of models are offered to accommodate your needs and requirements.

Features:

- ✓ User-friendly design
- Precise microcomputer temperature control
- Standard alarms and safety features
- Forced-air circulation for enhanced temperature stability
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor







VC 1000-PT



VC 1500-PT

| Model | VC 1000-SC | VC 1000-PT | VC 1500-PT | | |
|---------------------------------|------------------------|--|---------------------------------------|--|--|
| Dim. Ext (mm) W x D x H | 1200 x 770 x 2045 | 1260 x 800 x 2070 | 1880 x 800 x 2070 | | |
| Dim. Int (mm) W x D x H | 1095 x 626 x 1393 | 1100 x 650 x 1430 | 1500 x 650 x 1430 | | |
| Capacity | 1,000L | 1,000L | 1,500L | | |
| Int. & Ext. Chamber | | Epoxy coated mild steel | | | |
| Temp. Controller | | Temp adjustable, LED display | | | |
| Internal Air Circulation | | Forced-air | | | |
| Refrigerant | | R134a CFC Free | | | |
| Glass Door | | Heated Glass 3- Door | | | |
| Shelves | 10pcs | 10pcs | 15pcs | | |
| Door (Self-closing) | Sliding Door 2pcs | 4 Heated Glass Door (Pass-through) | 6 Heated Glass Door (Pass-through) | | |
| Door Lock / Castor | 2 nos. / 4 nos. | 2 nos. / 4 nos. | 3 nos. / 4 nos. | | |
| Comp. Recip. Hermetic | 280W | 280W | 340W | | |
| Power Voltage | 230 | OVac 50Hz Single Phase (60Hz for othe | ers) | | |
| Standard LED Alarm System | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | | |
| - Delay Start-up | ٧ | V | ٧ | | |
| - Auto Defrost | ٧ | ٧ | ٧ | | |
| - 24-hour DC backup | ٧ | ٧ | ٧ | | |
| * Accessories (Optional) | Door Fan Switch | | | | |
| Safety Features & Certification | ISO 13485, Electric Sa | afety Test (EST) IEC 61010-1 (2010), G | DPMD, ISO IEC 17025 | | |



Low Temperature Freezer (Force Air)

0°C to -25°C

Our Low Temperature Freezers are designed and fabricated to provide reliable, frozen environments as low as -25°C to ensure safe storage of various samples/enzymes/culture media used in biological, life science, and other research applications. Unit sizes vary from 500L to 1,500L and complete with standard LED alarm system, door locks, heated glass door(s) and swivel castors.

- User-friendly design and easy-to-manage layout
- ✓ Precise microcomputer temperature control
- ✓ Auto-defrost
- Forced-air circulation for enhanced temperature stability
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor
- ✓ Large temperature ranges for storing goods: from 0°C to -25°C







VF 25U-500

VF 25U-1000

VF 25U-1500

| Model | VF 25U-500 | VF 25U-1000 | VF 25U-1500 | | |
|---------------------------------|------------------------|---|---------------------|--|--|
| Dim. Ext (mm) W x D x H | 640 x 800 x 2070 | 1260 x 800 x 2070 | 1880 x 800 x 2070 | | |
| Dim. Int (mm) W x D x H | 540 x 650 x 1430 | 1100 x 650 x 1430 | 1320 x 650 x 1430 | | |
| Capacity | 500L | 1,050L | 1,500L | | |
| Int. & Ext. Chamber | | Epoxy coated mild steel | | | |
| Temp. Controller | | Temp adjustable, LED display | | | |
| Internal Air Circulation | | Forced-air | | | |
| Refrigerant | | R404a CFC Free | | | |
| Glass Door | | Heated Glass | | | |
| No. of Shelve(s) | 4 nos. | 8 nos. | 12 nos. | | |
| Door Lock / Castor | 1 no. / 4 nos. | 2 nos. / 4 nos. | 3 nos. / 4 nos. | | |
| Comp. Recip. Hermetic | 550W | 550W | 650W | | |
| Power Voltage | 23 | OVac 50Hz Single Phase (60Hz for othe | ers) | | |
| Standard LED Alarm System | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | | |
| - Delay Start-up | ٧ | V | ٧ | | |
| - Auto Defrost | ٧ | ٧ | ٧ | | |
| * Accessories (Optional) | Door Fan Switch | | | | |
| Safety Features & Certification | ISO 13485, Electric Sa | afety Test (EST) IEC 61010-1 (2010), GI | DPMD, ISO IEC 17025 | | |



Low Temperature Freezer

-10°C to -40°C

Our Low Temperature Freezers are designed and fabricated to provide specialized cold storage environment/long-term preservation for enzymes, vaccines, biological tissues and organs, reagents, as well as other temperature-sensitive materials at stable low temperatures range from -10°C to -40°C. We offer various unit sizes, ranging from 50L to 800L, includes digital temperature touch screen display, standard LED alarm system, inner doors for added security, and swivel castors. Suitable for scientific research institutions, hospitals, laboratories, sanitation and anti-epidemic station, electronics, chemical industry, machinery industry, fishery industry, etc.

Features:

- User-friendly design and easy-tomanage layout
- Precise microcomputer temperature control
- ✓ Auto-defrost
- Forced-air circulation for enhanced temperature stability
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor
- ✓ Large temperature ranges for storing goods: from -10°C to -40°C







VF 40U-200



VF 40U-280(D)

| Model | VF 40U-50 | VF 40U-100 | VF 40U-200 | VF 40U-280(D) | | |
|---------------------------------|-----------------------------------|--------------------------------|---------------------------|------------------|--|--|
| Dim. Ext (mm) W x D x H | 540 x 620 x 1115 | 460 x 460 x 510 | 700 x 655 x 1545 | 700 x 696 x 1743 | | |
| Dim. Int (mm) W x D x H | 361 x 429 x 406 | 720 x 735 x 1260 | 506 x 466 x 1005 | 506 x 466 x 1203 | | |
| Capacity | 50L | 100L | 200L | 280L | | |
| Internal Chamber | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel | | |
| External Chamber | Epoxy Mild Steel Epoxy Mild Steel | | Epoxy Mild Steel | Epoxy Mild Steel | | |
| Temp. Controller | Temp adjustable, LED display | | | | | |
| Internal Air Circulation | | Dir | ect | | | |
| Refrigerant | | R404a C | FC Free | | | |
| Shelves | 1 no | 2 nos. | 3 nos. | 4 nos. | | |
| Door Lock / Castor | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | | |
| Comp. Recip. Hermetic | 260W | 280W | 280W | 280W | | |
| Power Voltage | | 230Vac 50Hz Single Ph | nase (60Hz for others) | | | |
| Standard LED Alarm System | | | | | | |
| - Hi/Low Alarm | ٧ | V | ٧ | ٧ | | |
| - Power Failure | ٧ | V | ٧ | ٧ | | |
| Safety Features & Certification | ISO 13485, I | Electric Safety Test (EST) IEC | 61010-1 (2010), GDPMD, IS | O IEC 17025 | | |

Temperature -60°C optional



Low Temperature Freezer

-10°C to -40°C

Our Low Temperature Freezers are designed and fabricated to provide specialized cold storage environment/long-term preservation for enzymes, vaccines, biological tissues and organs, reagents, as well as other temperature-sensitive materials at stable low temperatures range from -10°C to -40°C. We offer various unit sizes, ranging from 50L to 800L, includes digital temperature touch screen display, standard LED alarm system, inner doors for added security, and swivel castors. Suitable for scientific research institutions, hospitals, laboratories, sanitation and anti-epidemic station, electronics, chemical industry, machining industry, fishery industry, etc.

- ✓ User-friendly design and easy-to-manage layout
- ✓ Precise microcomputer temperature control
- ✓ Auto-defrost
- Forced-air circulation for enhanced temperature stability
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor
- ✓ Large temperature ranges for storing goods: from -10°C to -40°C







VF 40U-400 / 500

VF 40U-600/700

VF 40U-800

| Model | VF 40U-400 | VF 40U-500 | VF 40U-600 | VF 40U-700 | VF 40U-800 | | | |
|---------------------------------|-----------------------------------|-----------------------------------|---|---|---|--|--|--|
| Dim. Ext (mm) W x D x H | 850 x 960 x 1950 | 740 x 800 x 2070 | 940 x 980 x 1920 | 1155 x 970 x 1860 | 1155 x 980 x 2025 | | | |
| Dim. Int (mm) W x D x H | 550 x 630 x 1140 | 540 x 650 x 1430 | 700 x 680 x 1255 | 780 x 770 x 1180 | 910 x 775 x 1364 | | | |
| Capacity | 400L | 500L | 600L | 700L | 800L | | | |
| Internal Chamber | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel | | | |
| External Chamber | Epoxy Mild Steel | Epoxy Mild Steel | Epoxy Mild Steel | Epoxy Mild Steel | Epoxy Mild Steel | | | |
| Temp. Controller | | Te | emp adjustable, LED disp | olay | | | | |
| Internal Air Circulation | | | Direct | | | | | |
| Refrigerant | | | R404a CFC Free | | | | | |
| Drawer / Shelves | 4pcs. Shelves (5 Compartments) | 3pcs. Shelves (4 Compartments) | 10 nos. Drawers (6- small + 4-large) | 10 nos. Drawers (6- small + 4-large) | 10 nos. Drawers (6- small + 4-large) | | | |
| Door Lock / Castor | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | | | |
| Comp. Recip. Hermetic | 430W | 430W | 430W | 430W | 430W | | | |
| Power Voltage | | 230Vac 5 | 0Hz Single Phase (60Hz | for others) | | | | |
| Standard LED Alarm System | | | | | | | | |
| - Hi/Low Alarm | ٧ | √ √ √ √ √ | | | | | | |
| Safety Features & Certification | ISO | 13485, Electric Safety T | est (EST) IEC 61010-1 (2 | .010), GDPMD, ISO IEC 1 | 17025 | | | |



Low Temperature Upright Freezer

-10°C to -25°C (Manual Defrost)

Our Low Temperature Upright Freezers are designed and fabricated to provide reliable, frozen environments as low as -25°Cto ensure safe storage of various samples/enzymes/culture media used in biological, life science, and other research applications. Units are complete with digital temperature touch screen display, standard LED alarm system, inner doors for added security, and swivel castors.

Features:

- User-friendly design and easy-to-manage layout
- Precise microcomputer temperature control
- ✓ Direct cooling with Manual Defrost
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor
- ✓ Large temperature ranges for storing goods: from -10°C to -25°C





VF 25U-280(M) / 400 (M)

V1 230-300(IV



VF 25U-700(M)

| Model | VF 25U-280(M) | VF 25U-400(M) | VF 25U-500(M) | VF U25-700(M) | | | |
|---------------------------------|------------------|--------------------------------|---------------------------|------------------|--|--|--|
| Dim. Ext (mm) W x D x H | 810 x 730 x 1600 | 850 x 960 x 1950 | 800 x 720 x 1840 | 940 x 950 x 1920 | | | |
| Dim. Int (mm) W x D x H | 630 x 676 x 855 | 550 x 630 x 1140 | 640 x 450 x 1400 | 650 x 700 x 1520 | | | |
| Capacity | 280L | 400L | 500L | 700L | | | |
| Internal Chamber | | Stainle | ss Steel | | | | |
| External Chamber | | Epoxy Powder C | oated Mild Steel | | | | |
| Temp. Controller | | Large LC | D Display | | | | |
| Door Lock | 1 no. | 1 no. | 1 no. | 1 no. | | | |
| Castor | 4 nos. | 4 nos. | 4 nos. | 4 nos. | | | |
| Internal Cooling | Direct | | | | | | |
| Shelves | 3 nos. | 3 nos. | 3 nos. | 4 nos. | | | |
| Refrigerant | | CFC Free | | R404a (HCFC) | | | |
| Insulation Foaming | 60mm | 60mm | 60mm | 60mm | | | |
| Power Voltage | | 230Vac 50Hz Single P | hase (60Hz for others) | | | | |
| Standard LED Alarm System | | | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | | | |
| - Power Failure | ٧ | ٧ | ٧ | ٧ | | | |
| - Low Battery | ٧ | ٧ | ٧ | | | | |
| - Door Ajar | ٧ | ٧ | ٧ | ٧ | | | |
| - Dirty Condenser | ٧ | ٧ | ٧ | ٧ | | | |
| Safety Features & Certification | ISO 13485, | Electric Safety Test (EST) IEC | 61010-1 (2010), GDPMD, IS | O IEC 17025 | | | |

• Defrost (M) – Manual Defrost



Ultra-Low Temperature Freezer

-10°C to -86°C

Our Ultra Low Temperature Freezers are designed to preserve biological samples/specimens at stable temperatures from -10°C to as low as -86°C. These ULT Freezers are available in both upright and chest-types, and come in various sizes to fit all your research application needs. Applications can be found in blood banks, hospitals, epidemic prevention services, research institutes, laboratories in electronic and chemical plants, biological engineering institutes and marine fishery companies.

- ✓ Easy to operate
- Precise microcomputer temperature control
- ✓ Auto-defrost
- Forced-air circulation for enhanced temperature stability
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ High efficiency refrigeration system with double compressors
- ✓ Low-noise compressor
- ✓ Large temperature ranges for storing goods: from -10°C to -86°C











VF 86U-500/600

| Model | VF 86U-188 | VF 86U-588 (VIP) | VF 86U-700 (VIP) | VF 86U-500 | VF 86U-600 |
|---------------------------------|---------------------|---------------------------------------|---|-----------------------|------------------|
| Dim. Ext (mm) W x D x H | 830 x 810 x 1607.5 | 1100 x 871 x 1994.5 | 1218 x 970 x 1994.5 | 930 x 1000 x 1980 | 960 x 970 x 1920 |
| Dim. Int (mm) W x D x H | 465 x 465 x 830 | 606 x 738 x 1310 | 963 x 558 x 1350 | 570 x 710 x 1225 | 700 x 680 x 1255 |
| Capacity | 188L | 588L | 700L | 500L | 600L |
| Internal & External Chamber | | Stainless Steel, S | SUS-304 / Epoxy Coate | d Mild Steel | |
| Temp. Controller | Digital display mic | roprocessor, increment calibration mo | 0.1°C with compressor de, auto defrost high & | | ature offset for |
| Temp. Pull Down Rate | | Ambient +25 | °C to -86°C approx. 3 to | 5 hours | |
| Internal Air Circulation | | | Direct | | |
| Refrigerant | | (| CFC-Free Mixed Gas | | |
| Insulation Foaming | 100mm | 100mm | 100mm | 100mm | 100mm |
| Door Lock / Castor | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. |
| Adjustable Shelves | 2pcs | 3pcs | 3pcs | 3 pcs | 3pcs |
| Inner Door | 1 no. | 2 nos. | 4 nos | 4 nos | 4 nos |
| Comp. Recip. Hermetic | 2 x 1/2 HP | 2 x 3/4 HP | 2 x 3/4 HP | 2 x 3/4 HP | 2 x 3/4 HP |
| Power Voltage | | 220Vac 50H | z Single Phase (60Hz for | r others) | |
| Standard LED Alarm System | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | ٧ |
| - Power Failure | ٧ | ٧ | ٧ | ٧ | ٧ |
| - Low Battery | ٧ | ٧ | ٧ | ٧ | ٧ |
| - Door Ajar | ٧ | ٧ | ٧ | ٧ | ٧ |
| - Condenser Dirty Alarm | ٧ | ٧ | ٧ | ٧ | ٧ |
| - High Ambient Temp. Alarm | | ٧ | | | |
| * Accessories (Optional) | | | Door Fan Switch | | |
| Safety Features & Certification | ISO 134 | 485, Electric Safety Test | (EST) IEC 61010-1 (201 | 0), GDPMD, ISO IEC 17 | 025 |



Ultra-Low Temperature Freezer

-10°C to -86°C

Our Ultra Low Temperature Freezers are designed to preserve biological samples/specimens at stable temperatures from -10°C to as low as -86°C. These ULT Freezers are available in both upright and chest-types, and come in various sizes to fit all your research application needs. Applications can be found in blood banks, hospitals, epidemic prevention services, research institutes, laboratories in electronic and chemical plants, biological engineering institutes and marine fishery companies.

- Easy to operate
- ✓ Precise microcomputer temperature control
- ✓ Auto-defrost
- Forced-air circulation for enhanced temperature stability
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ High efficiency refrigeration system with double compressors
- ✓ Low-noise compressor
- ✓ Large temperature ranges for storing goods: from -10°C to -86°C



VF 86H-50





VF 86H-120/250/350

VF 86H-500

| Model | VF 86H-50 | VF 86H-120 | VF 86H-250 | VF 86H-350 | VF 86H-500 | | | |
|---------------------------------|----------------------|---------------------------------------|------------------------|---------------------|--------------------|--|--|--|
| Dim. Ext (mm) W x D x H | 670 x 670 x 1025 | 1270 x 790 x 990 | 1510 x 895 x 1095 | 1810 x 885 x 1095 | 2115 x 895 x 1095 | | | |
| Dim. Int (mm) W x D x H | 410 x 410 x 385 | 540 x 400 x 590 | 780 x 500 x 690 | 1080 x 500 x 660 | 1380 x 500 x 690 | | | |
| Capacity | 50L | 120L | 250L | 350L | 500L | | | |
| Internal & External Chamber | | Stainless St | eel / Epoxy Coated M | ild Steel | | | | |
| Temp. Controller | Digital display mici | roprocessor, increment calibration mo | 0.1°C with compresso | | erature offset for | | | |
| Temp. Pull Down Rate | | Ambient +25 | °C to -86°C approx. 3 | to 5 hours | | | | |
| Internal Air Circulation | | | Direct | | | | | |
| Refrigerant | | CFC-Free Mixed Gas | | | | | | |
| Insulation Foaming | 100mm | 100mm | 100mm | 150mm | 150mm | | | |
| Door Lock / Castor | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | | | |
| Comp. Recip. Hermetic | 2 x 3/4 HP | 2 x 3/4 HP | 2 x 3/4 HP | 2 x 3/4 HP | 2 x 3/4 HP | | | |
| Power Voltage | | 220Vac 50H | z Single Phase (60Hz f | or others) | | | | |
| Standard LED Alarm System | | | | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | ٧ | | | |
| - Power Failure | ٧ | ٧ | ٧ | ٧ | ٧ | | | |
| - Low Battery | ٧ | ٧ | ٧ | ٧ | ٧ | | | |
| - Door Ajar | ٧ | ٧ | ٧ | ٧ | ٧ | | | |
| - Condenser Dirty Alarm | ٧ | ٧ | ٧ | ٧ | ٧ | | | |
| - High Ambient Temp. Alarm | ٧ | ٧ | ٧ | ٧ | ٧ | | | |
| * Accessories (Optional) | | | Door Fan Switch | | | | | |
| Safety Features & Certification | ISO 134 | 185, Electric Safety Test | (EST) IEC 61010-1 (20 | 10), GDPMD, ISO IEC | 17025 | | | |



Low Temperature Chest Freezer

0°C to -25°C

We offer wide range of sizes for Low Temperature Chest Freezer, all complete with product features most requested by the laboratory and medical industry. We offer quality selection to meet the specific needs of research laboratories, hospitals, pharmacies, veterinary offices, medical clinics, and other facilities with high demands for stable, low temperature storage.

- Precise microcomputer temperature control
- ✓ Simple to operate
- ✓ Auto-defrost
- ✓ Forced-air circulation for enhanced temperature distribution
- ✓ Easy-to-read LED temperature display
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor
- ✓ Large temperature ranges for storing goods: from 0°C to -25°C





VF 25H-100 / 200

VF 25H-300





VF 25H-560

VF 25H-300(S) / 500(S) / 1500(S)

| Model | VF 25H-100 | VF 25H-200 | VF 25H-300 | VF 25H-560 | VF 25H-300(S) | VF 25H-500(S) | VF 25H-1500(S) |
|------------------------------------|--|-----------------|------------------|-----------------------|------------------|------------------|-------------------|
| Dim. Ext (mm) W x D x H | 570 x 550 x 845 | 940 x 550 x 845 | 1055 x 750 x 835 | 1655 x 750 x 835 | 1760 x 710 x 865 | 2160 x 760 x 855 | 2950 x 1065 x 865 |
| Dim. Int (mm) W x D x H | 430 x 360 x 690 | 840 x 450 x 700 | 930 x 530 x 700 | 1530 x 530 x 700 | 1000 x 430 x 710 | 1350 x 520 x 710 | 2185 x 915 x 710 |
| Capacity | 100L | 200L | 300L | 560L | 300L | 500L | 1,500L |
| Internal Chamber | | Alum | ninium | | | Stainless Steel | |
| External Chamber | | Mild | l Steel | | | Stainless Steel | |
| Input Power | 100W | 100W | 300W | 380W | 300W | 380W | 1200W |
| Door Lock | 1 no. | 1 no. | 1 no. | 1 no. | 1 no. | 1 no. | 1 no. |
| Temp. Controller | Digital | Digital | Digital | Digital | Digital | Digital | Digital |
| Castor | Nil | 4 nos. | 4 nos. | 4 nos. | 4 nos. | 4 nos. | 4 nos. |
| Internal Air Circulation | | | | Direct | | | |
| Refrigerant CFC | | | | R134a | | | |
| Power Voltage | | | 220Vac 50 | OHz Single Phase (60) | Hz for others) | | |
| Alarm System | | | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ |
| Safety Features & Certification | ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025 | | | | | | |



Low Temperature Chest Freezer

-10°C to -40°C

We offer wide range of sizes for Low Temperature Chest Freezer, all complete with product features most requested by the laboratory and medical industry. We offer quality selection to meet the specific needs of research laboratories, hospitals, pharmacies, veterinary offices, medical clinics, and other facilities with high demands for stable, low temperature storage. Used for the refrigeration of blood plasma, reagent, vaccines, biological products and other various products which require cryopreservation, etc.

- ✓ Precise microcomputer temperature control
- ✓ Simple to operate
- Optimized evaporation system and condensation system, strong cooling, low energy consumption.
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor
- ✓ Large temperature ranges for storing goods: from -10°C to -40°C





VF 40H-100

VF 40H-200/300





| Model | VF 40H-100 | VF 40H-200 | VF 40H-300 | VF 40H-400 | VF 40H-520 | |
|--------------------------------------|---|-------------------------|---------------------------|------------------------|-------------------|--|
| Dim. Ext (mm) W x D x H | 720 x 735 x 1260 | 875 x 735 x 1480 | 1145 x 710 x 838 | 1684 x 730 x 838 | 1855 x 890 x 1005 | |
| Dim. Int (mm) W x D x H | 460 x 460 x 510 | 570 x 800 x 485 | 985 x 504 x 661 | 1170 x 520 x 661 | 1220 x 600 x 695 | |
| Capacity | 100L | 200L | 300L | 400L | 520L | |
| Internal Chamber External Chamber | Stainless Steel Epoxy Coated Mild Steel | | | | | |
| Temp. Controller | | Temp adjus | table, LED digital microp | processor PID | | |
| Temperature Fluctuation | ±2.0°C | | | | | |
| Cooling System | Direct Cooling Wall | | | | | |
| Refrigerant CFC | | | R134a/R404a CFC-free | | | |
| Door Lock / Castor | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | |
| Basket | 1pc | 1pc | 1pc | 2pcs | 2pcs | |
| Comp. Recip. Hermetic | 260W | 260W | 400W | 430W | 430W | |
| Power Voltage | | 230Vac 5 | OHz Single Phase (60Hz | for others) | | |
| Alarm System | | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | ٧ | |
| - Power Failure | Optional | | | | | |
| - Remote Alarm Contact | | | Optional | | | |
| Safety Features & Certification | ISO 1 | 3485, Electric Safety T | est (EST) IEC 61010-1 (2 | 010), GDPMD, ISO IEC 1 | 17025 | |



Stability Chamber (Incubator) (Force Air)

+4°C to +60°C

Our Stability Chambers (Incubators) are designed to keep drugs, cells, plants, tissue, fungal cultures and other samples which require accurate temperature control and consistent uniformity. Ideal for a variety of applications, e.g. plant and insect studies, fermentation studies, bacterial culturing, water pollution testing and enzyme digestion studies.

- Precise microcomputer temperature control
- Simple to operate
- Optimized evaporation system and condensation system, strong cooling, low energy consumption.
- Visual and audible alarm alerts
- ✓ Low-noise compressor
- ✓ Large temperature ranges: from +4°C to +60°C





VI 100

VI 300 / 500 / 600







| Model | VI 100 | VI 300 | VI 500 | VI 600 | VI 1000 | VI 1500 | | | |
|------------------------------------|------------------|-------------------|--------------------------|-------------------------|--------------------|-------------------|--|--|--|
| Dim. Ext (mm) W x D x H | 570 x 670 x 1135 | 590 x 650 x 1660 | 640 x 800 x 2070 | 700 x 800 x 2070 | 1200 x 810 x 2070 | 1880 x 800 x 2070 | | | |
| Dim. Int (mm) W x D x H | 540 x 520 x 550 | 490 x 550 x 870 | 540 x 650 x 1430 | 640 x 640 x 1430 | 1130 x 680 x 1430 | 1780 x 650 x 1430 | | | |
| Capacity | 100L | 300L | 500L | 600L | 1,000L | 1,500L | | | |
| Int. & Ext. Chambers | Stainless Steel | | E | poxy Coated Mild Stee | el | | | | |
| Temp. Controller | | Te | emp adjustable, LED di | gital microprocessor Pl | ID | | | | |
| Temp/ Fluctuation | | | ±0.1°C PI | D Control | | | | | |
| Internal Air Circulation | | | Force | ed-air | | | | | |
| Refrigerant | | | R134a/R40 | 7 CFC Free | | | | | |
| Comp. Recip. Hermetic | 100W | 200W | 250W | 280W | 400W | 500W | | | |
| Door Lock / Castor | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 1 no. / 4 nos. | 3 nos. / 4 nos. | | | |
| No. of Shelve(s) | 2 nos. | 4 nos. | 5 nos. | 5 nos. | 10 nos. | 15 nos. | | | |
| Power Voltage | | | 230Vac 50Hz Single P | hase (60Hz for others) | | | | | |
| Access Port 60mm | | | 11 | no. | | | | | |
| Alarm System | | | | | | | | | |
| - Hi/Low Alarm | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | | | |
| - Power Failure | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | | | |
| - Remote Alarm Contact | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | | | |
| - 72-hour Display & Backup | ٧ | V V V V | | | | | | | |
| Safety Features & Certification | | ISO 13485, Electr | ic Safety Test (EST) IEC | 61010-1 (2010), GDPN | /ID, ISO IEC 17025 | | | | |



Laboratory Combined Refrigerator – Freezer

(for Blood Bank & Pharmacy)

-10°C to -40°C (Freezer) $| +2^{\circ}C$ to $+8^{\circ}C$ (Refrigerator)

In line with the growing emphasis on proper storage of laboratory and pharmaceutical materials, our Laboratory Combined Refrigerator-Freezer is the combo which combines high performance refrigeration control and monitoring systems with energy efficient and cost-effective chamber design.

- Precise microcomputer temperature control
- ✓ Simple to operate
- Forced-air circulation for enhanced temperature distribution and uniformity
- ✓ Combined refrigerator-freezer for space saving
- ✓ Visual and audible alarm alerts
- ✓ Low-noise compressor





VC F-180

VC F-400

| Model | VC F-180 | VC F-400 | | | | |
|------------------------------------|--|--|--|--|--|--|
| Overall Dim. Ext (mm) W x D x H | 570 x 670 x 1450 | 750 x 790 x 2070 | | | | |
| Overall Capacity | 185L | 465L | | | | |
| Int. Chamber / Ext. Chamber | Stainless Steel 304 | Stainless Steel 304 /Epoxy Coated Mild Steel | | | | |
| Temp. Controller | Temp adjustable, LED di | gital microprocessor PID | | | | |
| <u>Refrigerator</u> | | | | | | |
| ❖ Dim. Int (mm) W x D x H | 470 x 520 x 550 | 610 x 610 x 900 | | | | |
| Capacity | 135L | 335L | | | | |
| Temp. Accuracy | ±1 | °C | | | | |
| Temp. Control | Forced-air circulation Auto Defrost + | -2°C to +8°C with 3 Drawers/Shelves | | | | |
| ❖ Refrigerant | R134a C | CFC-free | | | | |
| <u>Freezer</u> | | | | | | |
| ❖ Dim. Int (mm) W x D x H | 470 x 520 x 200 | 610 x 610 x 350 | | | | |
| Capacity | 50L | 130L | | | | |
| Temp. Accuracy | ±2 | °C | | | | |
| Temp. Control | Direct Cooling -10°C to -25°C | Direct Cooling -10°C to -40°C | | | | |
| Refrigerant | R404a/R50 | 7 CFC-free | | | | |
| Door | Freezer – 1 no. solid door & Refri | gerator - 1 no. heated glass door | | | | |
| Door Lock / Castor | 2 nos. / 4 nos. | 2 nos. / 4 nos. | | | | |
| PVC Shelves | 2 nos. | 4 nos. | | | | |
| Compressor | 1/3 HP Semi-hermetic | 3/4 HP Semi-hermetic | | | | |
| Condenser | Air cooled f | in and tube | | | | |
| Drainage | Hot pipe evap | poration type | | | | |
| Power Voltage | 240Vac 50Hz Single Ph | nase (60Hz for others) | | | | |
| Alarm System | | | | | | |
| - Hi/Low Alarm | V | V | | | | |
| - Power Failure | V | V | | | | |
| - Remote Alarm Contact | V | ٧ | | | | |
| Safety Features & Certification | ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025 | | | | | |



Cold room / Freezer / Blast

Walk-in Room Design (Chiller +2°C to +8°C & Freezer 0°C to -40°C/-75°C

The cold rooms are specifically designed to provide controlled temperature environments for numerous applications which require bigger capacity or space, including packaging of food & beverages or medicines, stability storage, biological research, shelf life testing, etc. The cold rooms/walk-in chillers can be made-to-order in accordance to your requirements.

- Can be customized according to your requirement(s) to suit varying capacities, applications, temperature, etc.
- ✓ Cold room, freezer or combination models
- ✓ Modular construction makes installation fast and easy
- ✓ Visual and audible alarm alerts
- ✓ Low-noise



| Model | VC CT-1 | VC FR-1 | | | | |
|------------------------------------|---|--|--|--|--|--|
| Capacity | Option | Option | | | | |
| Dim. (ft) W x D x H | 10 x 10 x 9 | 10 x 10 x 9 | | | | |
| Int. & Ext. Chamber | Epoxy Coate | ed Mild Steel | | | | |
| Temp. Range | 0°C to 8°C (temp adjustable | e) -20°C (temp adjustable) | | | | |
| Temperature Controller | | vith compressor delay start-up temperature offset for de, auto defrost | | | | |
| Insulation Foaming | 3 inches | 4 inches | | | | |
| Door Lock | 1 no. | 1 no. | | | | |
| Internal Cooling | Forced-air | Circulation | | | | |
| Refrigerant | R134a | R404a | | | | |
| Door Lock | 1 nos. | 1 nos. | | | | |
| Power Voltage | 220/415Vac 50H | Iz Single/3 Phase | | | | |
| Alarm System | 1рс | 1pc | | | | |
| Optional Item | Internal & external stainless steel, temperature recorder round chart | | | | | |
| Safety Features & Certification | ISO 13485, Electric Safety Test (EST) IEC | 61010-1 (2010), GDPMD, ISO IEC 17025 | | | | |



Blast Freezer

-10°C to -45°C / -10°C to -75°C

For long-term and hygienic foodstuffs preservation, some food must be blast frozen to -18°C or -40°C (low temperature). "Frozen" means to transfer the fluid inside food to ice crystal. Therefore, preserving foodstuffs in low temperature environment which penetrate the foodstuffs and make the centre of foodstuffs low down to -40°C rapidly, that is blast freeze. Blast freezer can freeze foodstuffs in high speed, creating smaller ice crystals and will not damage food. No matter raw, cooked or semi-finished foodstuffs can be preserved perfectly by blast freezer, after defrosting; foodstuffs can maintain the original delicacy and fresh without quality doubt.

- ✓ Intuitive touch control panel Easy to use
- Modular construction makes installation fast and easy
- ✓ Visual and audible alarm alerts
- Easy to remove shelf support for simple cleaning and maintenance
- Both internal and external chamber are constructed by stainless steel



VF 45B-180



VF 45B-350 / VF 75B-500



VF 45B-850



VF 45B-2100



VF 45B-4000



Stainless Steel Cart

| Model | VF 45B-180 | VF 45B-350 | VF 45B-850 | VF 45B-2100 | VF 45B-4000 | VF 75B-500 | |
|------------------------------------|--|---------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|--|
| Dim. Ext (mm) W x D x H | 880 x 850 x 1015 | 880 x 850 x 1645 | 1000 x 1100 x 2350 | 1360 x 1110 x 2060 | 2900 x 1650 x 2200 | 1040 x 940 x 2380 | |
| Dim. Int (mm) W x D x H | 560 x 450 x 900 | 660 x 400 x 960 | 800 x 900 x 1420 | 1100 x 1400 x 1450 | 2080 x 1400 x 1450 | 530 x 710 x 1450 | |
| Stainless Steel Trays | 5pcs | 10pcs | 20pcs | 20pcs | Double Carts 40 | 10pcs | |
| Capacity | 180L | 350L | 850L | 2100L | 4000L | 500L | |
| Stainless Steel Tray Dia. | | | 400mm x 600mm | | | 400 x 600 x 25 | |
| Int. & Ext. Chamber | | | Stainl | ess Steel | | | |
| Temp Range | | -10°C to -45°C | / -10°C to -75°C (te | mp adjustable) | | -10°C to -75°C | |
| Temp Fluctuation | ±1°C to 2°C | | | | | | |
| Internal Air Circulation | | | Ford | ced-air | | | |
| Refrigerant | | | R507 | 7 HCFC | | | |
| Comp Reci Hermatic | 1500W | 2500W | 3000W | 3500W | 5 HP x 2 | 2 HP | |
| Door Lock / Castor(s) | 1 no. / 4pcs | 1 no. / 4 pcs | 1 no. / 4pcs | 2 nos. / 4pcs | 2 nos. / Nil | Single Swing out solid door with lock | |
| Temp Pull Down Rate | | | Ambient +25°C to - | -86°C approx. 40 mi | ns | | |
| Standard LED Alarm | | | Hi/Lo | w Alarm | | | |
| Power Voltage | 230Vac 50Hz Single or 415Vac 3 Phase (60Hz for others) | | | | | | |
| Fan Door Switch | Built-in | | | | | | |
| Safety Features & Certification | | ISO 13485, Electric | Safety Test (EST) IE | C 61010-1 (2010), G | DPMD, ISO IEC 1702 | 25 | |



Ice-Lined Refrigerator

 0° C to +8°C

The Ice-lined Refrigerators operate within temperature range of 0°C to +8°C come with highly efficient backup system up to 48 hours. Ideal for safe and proper storage of medical supplies.

- More accuracy and more reliable with microprocessor control and digital display, power ON/OFF indicator
- ✓ Lockable design to prevent unauthorized access
- ✓ Ambient temperature range from +5°C to +43°C
- ✓ Long hold-over time (up to 48 hours) in case of power failure
- ✓ CFC free insulation and refrigerant





VC 120/220/300-IL

| Model | VC 120-IL | VC 220-IL | VC 300-IL | VC 500-IL | | |
|---------------------------------|-----------------|--------------------------------|--------------------------------|-----------------------------------|--|--|
| Dim. Ext (mm) W x D x H | 810 x 765 x 885 | 1160 x 765 x 885 | 1530 x 765 x 885 | 1850 x 890 x 1005 | | |
| Dim. Int (mm) W x D x H | 610 x 470 x 600 | 960 x 470 x 600 | 1330 x 470 x 600 | 1220 x 600 x 695 | | |
| Capacity | 120L | 220L | 300L | 500L | | |
| Temp. Controller | LED Dig | ital Microprocessor / Auto c | defrost, Delay start-up, Offse | t mode | | |
| Backup Time | | Hold 48 hours wh | en power cuts off | | | |
| Internal Chamber | | Stainle | ss Steel | | | |
| External Chamber | | Epoxy Coated Mild S | teel / Stainless Steel | | | |
| Temp. Range | Ambient +5 | °C to +40°C | +2°C to +8°C | | | |
| Temp. Fluctuation | ±1°C | | | | | |
| Internal Circulation | Grav | vity | Direct Cooling | | | |
| Insulation Foaming | | 100 | mm | | | |
| Condenser | Tube ar | nd tube | Air-cooled fin and tube | Remote air-cooled Fin and tube | | |
| Basket/Castor | 1 no. / 4 nos. | 2 nos. / 4 nos. | 2 nos. / 4 nos. | 4 nos. / 6 nos. | | |
| Door | | Lid 1 n | o Solid | | | |
| Refrigerant | | R13 | 34a | | | |
| Power Voltage | | 240Vac 50Hz | Single-phase | | | |
| Standard LED Alarm System | | | | | | |
| - Hi/Low Alarm | ✓ | ✓ | ✓ | ✓ | | |
| - Power Failure | | | | ✓ | | |
| Safety Features & Certification | ISO 13485, E | Electric Safety Test (EST) IEC | 61010-1 (2010), GDPMD, IS | O IEC 17025 | | |



Ice Flakes Maker

Our Ice Flakes Makers are designed to produce ice flakes with the capacity ranging from 30kg/24hrs to 200kg/24hrs with rapid cooling speed. The Ice Flakes Makers can be applied in hospitals, supermarket/hypermarket chain stores, hotels, fishing refrigeration, medical applications, chemical products, food processing, vegetable preservation industries, etc.

- Constructed by high quality stainless steel, they are anticorrosive and durable
- ✓ Easy to operate Ice-making process is fully computerized
- ✓ Compact and space saving
- ✓ CFC free refrigerant



| Model | IM 50 | IM 70 | IM 85 | | | | |
|---------------------------------|--|-----------------|-----------------|--|--|--|--|
| Dia. Ext (mm) W x D x H | 543 x 380 x 722 | 611 x 548 x 883 | 611 x 548 x 883 | | | | |
| Storage Tank (kg) | 15 | 15 | 25 | | | | |
| Capacity (kg/24hrs) | 50 | 70 | 85 | | | | |
| Int. & Ext. Chamber | Stainless Steel | | | | | | |
| Refrigerant | | | R134a CFC-free | | | | |
| Input Power | 280W | 280W | 420W | | | | |
| Weight | 40kg | 40kg | 57kg | | | | |
| Power Voltage | 230Vac 50Hz Single Phase (60Hz for others) | | | | | | |
| Safety Features & Certification | ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025 | | | | | | |

| Model | IM 100 | IM 130 | IM 150 | IM 200 | IM 300 | | |
|---------------------------------|--|--------------------------|--------------------------|-------------------------|------------------|--|--|
| Dia. Ext (mm) W x D x H | 611 x 548 x 883 | 611 x 635 x 945 | 611 x 635 x 945 | 641 x 680 x 1102 | 641 x 680 x 1102 | | |
| Storage Tank (kg) | 25 | 35 | 35 | 55 | 55 | | |
| Capacity (kg/24hrs) | 100 | 130 | 150 | 200 | 300 | | |
| Int. & Ext. Chamber | Stainless Steel | | | | | | |
| Refrigerant | | | R134a CFC-free | | | | |
| Input Power | 420W | 680W | 680W | 1370W | 1370W | | |
| Weight | 57kg | 85kg | 85kg | 100kg | 100kg | | |
| Power Voltage | 230Vac 50Hz Single Phase (60Hz for others) | | | | | | |
| Safety Features & Certification | ISC | 13485, Electric Safety T | est (EST) IEC 61010-1 (2 | 010), GDPMD, ISO IEC 17 | 7025 | | |



Portable Freezer & Combined Refrigerator-Freezer

ETS Compressor Portable Freezer (DC)





VF PF-12DC VF PF-35DC

These portable freezers are lightweight. They double as great bar fridge, or an extra cooler to frozen or chilled keep samples/specimens/plasma in the vehicle while you are on the go. The entire portable freezers are built using an impact resistant polypropylene exterior that offers outstanding protection. Simply set the temperature and the electronic temperature controller does the rest.

ETS Combined Refrigerator/Freezer (DC)



The Combined Refrigerator/Freezers are in a league of their own. With two independently controlled compartments, the configuration is up to you. Choose

from the typical setup of fridge/freezer, or set both compartments at the same temperature to create a

larger refrigerator or freezer.

Model VF PF-12DC VF PF-35DC VF PF-60DC VF PF-80DC Dim. Ext (mm) W x D x H 190 x 505 x 385 355 x 630 x 415 740 x 495 x 600 740 x 495 x 520 200 x 325 x 400 / 200 x 325 x 480 / Dim. Int (mm) W x D x H 125 x 370 x 300 250 x 496.5 x 303.5 330 x 325 x 480 330 x 325 x 400 80L Capacity 15L 35L 60L ABS **Internal Chamber External Chamber Epoxy Coated Mild Steel** LED Digital Display / +10°C to -22°C **Temperature Control / Range Temperature Fluctuation** ±1.0°C **Internal Cooling System Direct Cooling Wall** Refrigerant R134a CFC-free **Power Voltage** 12VAC/DC or 24VAC/DC Digital (use DC battery) Display 16 Net Weight (KG) 31.5 Hold Temperature w/o DC supply Up to 3 to 4 hours at +2°C to +8°C **Safety Features & Certification** ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025





- Environmental friendlyrechargeable bysolar power
- ✓ Convenient



Mortuary Refrigerator

$+2^{\circ}C$ to $+8^{\circ}C$

The mortuary refrigerators are developed for the storage of corpses for a short or long period. The units are made of stainless steel for long lasting use. Hydraulic trolley, stainless steel body trolley, autopsy table as well as other accessories to complete the range.

- Chamber construction: Fully made of stainless steel
- ✓ Compressor sealed-type compressor with gas aspiration cooling, complete with total protection motor
- ✓ Digital read-out electronic control panel
- ✓ CFC free insulation and refrigerant
- ✓ Installed with standard LED alarm system







MOT 3B







MOT 4B

| Model | MOT 2B | MOT 3B | MOT 4B | MOT 2B (Side-open) |
|---------------------------------|---|------------------------------|------------------------------|------------------------------|
| Dim. Ext (mm) W x D x H | 2500 x 1070 x 1960 | 2500 x 1070 x 2590 | 2580 x 2140 x 1960 | 2550 x 1120 x 1960 |
| Dim. Int (mm) W x D x H | 2270 x 860 x 1220 | 2270 x 860 x 1800 | 2270 x 1720 x 1220 | 2270 x 860 x 1220 |
| Door (Swing-out) L x W | 2 nos. – 580mm x 860mm | 3 nos. – 580mm x 860mm | 4 nos. – 580mm x 860mm | 2 nos. – 2100mm x 540mm |
| Stainless Steel Tray | 2 nos. – W610mm x L2130mm | 3 nos. – W610mm x L2130mm | 4 nos. – W610mm x L2130mm | 2 nos. – W600mm x L2130mm |
| Int. & Ext. Chamber | Stainless Steel | | | |
| Temp. LED Control | Digital display microprocessor, increment 0.1°C with compressor delay start-up temperature offset for calibration mode, auto defrost high & low alarm | | | |
| Standard LED Alarm System | Hi/Low alarm (audio & visual) | | | |
| Castor (Heavy Duty) | 6 nos. | 6 nos. | 6 nos. | 6 nos. |
| Door Lock | 2 nos. | 3 nos. | 4 nos. | 2 nos. |
| Internal Air Circulation | Forced-air circulation | | | |
| Refrigerant | R407a CFC Free | | | |
| Lighting | 2pcs | 3pcs | 4pcs | 2pcs |
| Comp. Recip. Hermetic | 3/4 HP | 1.0HP | 2 x 3/4 HP | 3/4 HP |
| Power Voltage | 220Vac 50Hz Single Phase (60Hz for others) | | | |
| Safety Features & Certification | ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025 | | | |



Autopsy table is mounted to a central support column and is made entirely from stainless steel (material no. 1.4301-ANSI 304). Through three-piece, removable, perforated rest areas, all unsanitary odours are safely vacuumed away. The table is to be connected to the side-mounted ventilation system, which has a minimum capacity of 1000m³/h.

Features:

- GFCI duplex receptacle with waterproof cover
- Deluxe hydro-aspirator with reverse flow, cold water control vave and 10ft/3m of hose
- Spray hose assembly with cold water control valve, nozzle, 10ft/3m of flexible hose.
- ✓ Large sink basin with lever handle drain



KC 003

| Model | KC 003 | |
|--------------------------|---|--|
| Dim. (mm) L x W x H | 2600 x 750 x 900 | |
| Deadweight | Approx. 250kgs | |
| Carriage Capacity | Max 200kgs | |
| Material | Stainless Steel 304 | |
| Four Buttons | Power, Water, Grinder, Suction | |
| Door | Central support column with One (1) access door | |
| Accessories | 2m shower hose with hand sprinkler 2 taps mixing cold and warm water (one is manual, the other is with sensor) | |
| Basins | 2 Basins (one is with grinder for waste water and scrap, the other is for safe removal of all odors and waste water separately | |



Body Trolley with Roller & Cover

This body trolley is specially designed for transportation of body which provides comfort and safety for body preparation rites, and upper roller support can easily be pushed with tray from mortuary compartment smoothly.

Features:

- ✓ Mortuary trolley with cover
- ✓ Rustproof stainless steel 304
- ✓ Can be moved. Body tray in concave
- ✓ Four strong enough stainless steel 304 handles make the operation of removing the cover easily
- ✓ Four universal wheels all with brake to keep the table stable



KC 004

| Model | KC 004 | |
|---------------------|--|--|
| Dim. (mm) L x W x H | 2000 x 810 x 1300 | |
| Deadweight | N/A | |
| Material | Stainless Steel 304 | |
| Basins | N/A | |
| Accessories | N/A | |
| Castor | 4 nos of 8 inches swivel castor centre direction & total locking system | |
| Safety | With both side rail guards install 6 nos of stainless steel roller for easy load & unload. Front and rear with up and down lifting auto lock. Both sides cover with canvas. | |



This Kapan trolley is specially designed for transportation of body which provides comfort and safety for body preparation rites, and rail can easily be pulled to ensure that the trolley can go through standard door smoothly.

- ✓ Stainless Steel structure
- ✓ Push handles
- ✓ Ø 125mm rolling wheels, two with brakes
- ✓ Housing and wheels made of polypropylene.
- ✓ Precision ball bearing



KC 005

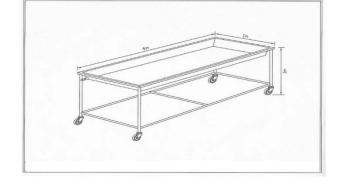
| Model | KC 005 | |
|---------------------|---|--|
| Dim. (mm) L x W x H | 2000 x 810 x 1300 | |
| Deadweight | N/A | |
| Material | Stainless Steel 304 | |
| Basins | N/A | |
| Accessories | N/A | |
| Castor | 4 nos of 8 inches swivel castor centre direction & total locking system | |
| Feature | With rail guards installed on both sides. Wide working area for kapan. | |



Trolley Body Preparation / Washing Table

Table top tilt manually for easy drainage. The universal wheels are soundless and easy for moving with brake. This Dissecting Table is for embalming, dressing and transferring. The table is constructed of a 304 stainless steel top with a convex surface, tubular stainless steel frame. Table-top can be used as stretcher. The drain, located in the center of the foot end, quickly eliminates fluid from the table.





| Model | KC 009 | |
|---------------------|--------------------------------------|--|
| Dim. (mm) L x W x H | 2600 x 855 x 755 | |
| Material | Stainless Steel 304 | |
| Surface | Removable perforated grid plates | |
| Stand | 6 nos | |
| Sloping table top | Yes | |
| Spray nozzle | Handheld with 2 metres flexible hose | |
| Strainer | Yes | |
| Drainage | Yes | |
| Water Supply | Hot and cold mix-faucet type | |



Hydraulic Body Lifting Trolley

Hydraulic lifting trolley with double cross bar for tray with casters. The different surfaces (guides, rollers and smooth surface) meet the needs of any structure and the frame is double-scissor-like, allowing the achievement of the 3rd place on top refrigerators. The hydraulic lifting mechanism can be a hydraulic pump with foot pedal or electric, depending on the model. All models are equipped with safety guards for the wheels and a speed controller so that once you lift the load, if you decide to lower it again, the same is not likely to fall suddenly endangering the operator.

Features:

- ✓ Separated movable tray 304 stainless steel.
- ✓ 4 firm casters with locks makes your operation more conveniently and all directional casters can let you go through a tight corridor.
- ✓ Hydraulic lift function are environmentally and efficiently lifter you can choose with height you want with easier operation.
- Smooth and polished surface with characteristics of easy to clean and beautiful appearance.



HLT 002

| Model | HLT 002 | |
|-----------------------|----------------------------------|--|
| Dim. (mm) L x W x H | 2400 x 740 x 1580 | |
| Made of | Stainless Steel 304 | |
| Lifting Height | From 400mm to 1580mm | |
| Hydraulic Powered | Lifting and Lowering | |
| Power | Battery operated with DC charger | |
| Battery | 12V DC sealed type | |
| Battery Indication | 0V to 15V DC | |
| End Rubber Pumper | Protection against walls | |
| Castor | 4pcs with lock | |
| Easy transfer of body | Roller type with stopper | |
| Weight Scale | Yes | |

Digital Thermometer & Data Logger

Model Description **Function and features:** Display Indoor and outdoor temperature simultaneously **BT-3** Max./Min. temperature value memory Digital Max./Min. temperature value recovery function Thermometer & Measuring range: Indoor temperature -30°C to +50°C / Outdoor Hygrometer temperature -50°C to +70°C Dimension: H110mm x L100mm **Function and features:** Double sensors, internal and external DS-1

Digital Thermometer



- Clock display
- Temperature measuring range: -50°C to +70°C
- Accuracy: ±1.0°C
- Dimension: L115mm x 30mm x 27.2mm

THL-2





Function and features:

- Compatible with computers using Windows
- * Instant and manual start
- Overall temperature range: -35°C to +70°C
- Dimension: L101mm x 25mm x 23mm
- Weight: 172g
- Logging rate: Selectable sampling interval from 2 seconds up to 24 hours

SSN-22

Portable USB **Temperature Humidity Data** Logger



Function and features:

- USB interface directly communicate with PC for setup and data
- User can set access password for data logger
- Overall temperature range: -35°C to +80°C
- Humidity measurement range: 0 ~ 100% RH
- Dimension (mm): L123 x 37 x 23 / Weight: 90g

RC-4HC

Mini

Temperature &

Humidity Data Logger

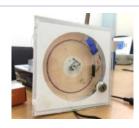


Function and features:

- Communication interface: USB interface
- Overall temperature range: -30°C to +60°C
- Humidity measuring range: 0 ~ 99% RH
- Dimension: L84mm x 44mm x 20mm / Weight: 35g
- Record interval: 10s ~ 24hour adjustable

Temperature Recorder & Accessories

Temperature Recorder



Function and features:

- ❖ Case dimension (mm): 144 x 144
- ❖ Ambient temperature: -15°C to +60°C
- Highly reliable, precise and economic
- ❖ Absence of mercury not hazardous
- Suitable for many uses in all industries
- Power supply: One (1) alkaline battery

Chart Pen

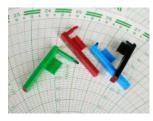


Chart Papers





Sterilizing & Disinfecting Solution

MEDILOX Disinfecting Solution



High Level Disinfectant Solution. Sterilizing more than 99.9% of all germs and virus in 30 sec.



Medizyme is an effective, advanced medical enzyme detergent that digests protein, carbohydrate and lipid with combination of multi enzymes such as protease, amylase and lipase, etc. so that it impressivel removes biofilm.































MS-4000P

Specifications MS-4000P

| Concentration | 50 -100ppm |
|-------------------------|--------------------------------------|
| pH | 4.5 - 7.0 |
| Redox potential | 850 - 1000mv |
| Prodution capacity | 240 liters/hr |
| Power source | 110/ 240Vac single phase 50Hz |
| Power consumption | 120 watt |
| Dimension | 350mmW x 300mmL x 540mmH |
| Weight | 24 kgs |
| Water requirement | Tap water, hardness: less than 80ppm |
| | pH 605 - 7.0 |
| | Pressure more than 1.5kg/cm2 |
| Agent | Annexol 4L x 4ea / box |
| Storage tank (option) | 20L / 60L |





Automatic Injection System

High Level Disinfectant Solution. Sterilizing more than 99.9% of all germs and virus in 30 sec.



Sterilizing & Disinfecting Solution

Mini Ultra Violet (UV) Sterilizer

These mini sterilizers are useful for hospital, pharmacy, beauty shop, laboratory, clinic, pharmacy and places that need sanitation and sterilization.

They are good in design and small size. They are effective in disinfecting various kinds of germs on the surface of general items by using UV-ray (235.7nm wavelengths). It is very convenient to be used as keeping box for small implements.

- ✓ Easy to operate
- No special room preparation required, as the device can be placed at medical sites
- Set up quickly with the preset programs
- ✓ Disinfect high touch non-critical surfaces in minutes







KRS-A1

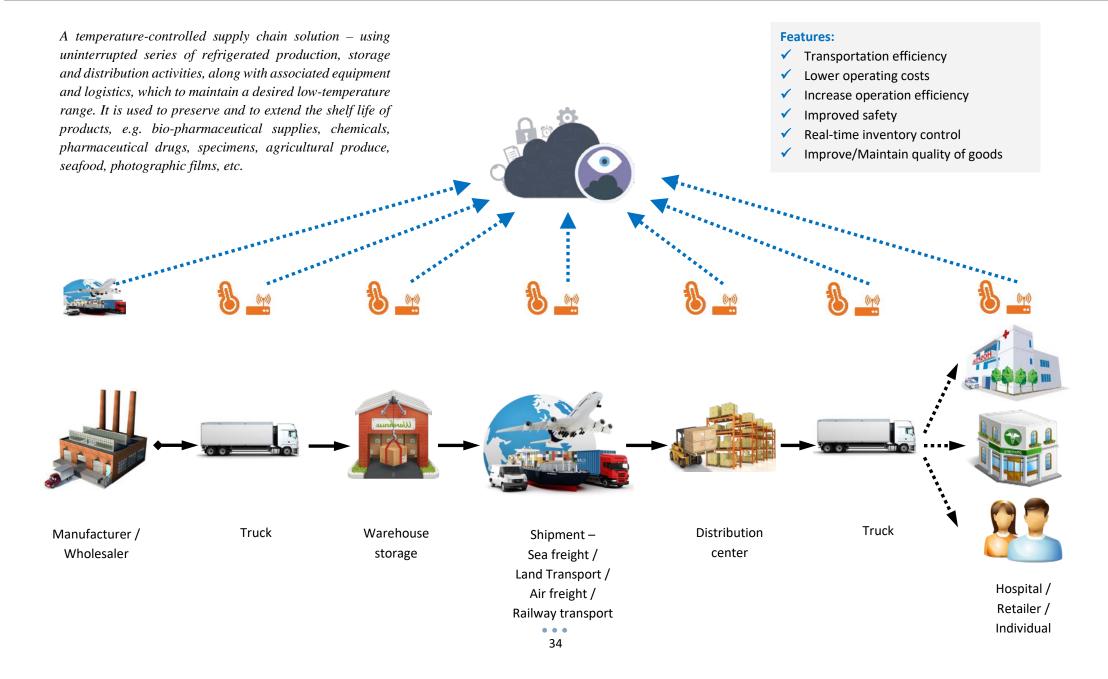


KR 100

| Maker | ETS KARIS | | ETS |
|---------------------------|-----------------|---------------------------|---------------------------|
| Model | KRS 989B | KRS-A1 | KR 100 |
| Dim. Ext (mm) W x D x H | 350 x 215 x 240 | 485 x 375 x 440 | 650 x 550 x 810 |
| Dim. Int (mm) W x D x H | 315 x 190 x 170 | 480 x 315 x 320 | 580 x 470 x 520 |
| Internal Chamber | Stainless Steel | | |
| Capacity | 10L | 48L | 140L |
| Weight | 2.95KG | 11.75KG | 30KG |
| UV Lamp | 6W x 1 no. | 10W x 1 no. | 20W x 1 no. |
| Shelf | 2 nos. | 2 nos. | 3 nos. |
| Power Supply | 100V to 240 V | 100V to 240 VAC 50Hz/60Hz | |
| Power Consumption | 8W | 10W | 350W |
| Temperature Control Range | No | No | Ambient +5°C to +60°C PID |
| Internal Air Circulation | No | No | Forced-air |



Cold-chain Logistics Solution





Low Temperature Freezer

-10°C to -25°C

| Model | VF SL-120A |
|---------------------------|--|
| Dimensions (mm) W x D x H | 1200 x 810 x 2000 |
| Made of | Both interior and exterior – Stainless steel |
| Temperature | -10°C to 25°C |
| Freeze method | Air cooling |
| Insulated thickness | 90mm |
| Freezer Unit | 1.3kW |
| Interior shelf method | Net shelf / Trays on tracks |



| Model | VF SL-120G |
|---------------------------|--|
| Dimensions (mm) W x D x H | 1200 x 810 x 2000 |
| Made of | Both interior and exterior – Stainless steel |
| Temperature | -10°C to -25°C |
| Freeze method | Air cooling |
| Insulated thickness | 90mm |
| Freezer Unit | 1.3kW |
| Interior shelf method | Net shelf / Trays on tracks |



| Model | VF SL-68T |
|---------------------------|--|
| Dimensions (mm) W x D x H | 680 x 750 x 800 |
| Made of | Both interior and exterior – Stainless steel |
| Temperature | -10°C to -25°C |
| Freeze method | Air cooling |
| Insulated thickness | 90mm |
| Freezer Unit | 0.6kW |
| Interior shelf method | Net shelf |



| Model | VF SL-68G |
|---------------------------|--|
| Dimensions (mm) W x D x H | 680 x 750 x 1100 |
| Made of | Both interior and exterior – Stainless steel |
| Temperature | -10°C to -25°C |
| Freeze method | Air cooling |
| Insulated thickness | 90mm |
| Freezer Unit | 0.6kW |
| Interior shelf method | Net shelf |



| Model | VF SL-75A |
|---------------------------|--|
| Dimensions (mm) W x D x H | 750 x 810 x 2000 |
| Made of | Both interior and exterior – Stainless steel |
| Temperature | -10°C to -25°C |
| Freeze method | Air cooling |
| Insulated thickness | 90mm |
| Freezer Unit | 0.8kW |
| Interior shelf method | Net shelf / Trays on tracks |
| | |



| Model | VF SL-75G |
|---------------------------|--|
| Dimensions (mm) W x D x H | 750 x 810 x 2000 |
| Made of | Both interior and exterior – Stainless steel |
| Temperature | -10°C to -25°C |
| Freeze method | Air cooling |
| Insulated thickness | 90mm |
| Freezer Unit | 0.8kW |
| Interior shelf method | Net shelf / Trays on tracks |



| Model | VF UC-60 (Chiller) |
|---------------------------|--|
| Dimensions (mm) W x D x H | 680 x 750 x 800 |
| Made of | Both interior and exterior – Stainless steel |
| Refrigerator Temperature | +2°C to +14°C |
| Freeze method | Air cooling |
| Freezer Unit | 1.3kW |
| Interior shelf method | Net shelf / Trays on tracks |



| Model | VF UCF-185 |
|---------------------------|------------------|
| iviouei | AL OCL-102 |
| Dimensions (mm) W x D x H | 1500 x 600 x 800 |
| Power Supply | 220V 50Hz ~ 60Hz |
| Temperature | -10°C to -25°C |
| Capacity | 268L |
| Net Weight | 98KG |
| Compressor Output | 350W |
| Refrigerant | R404a |
| Cooling System Type | Air-cooled |
| Shelf | 2 nos. |





DSM 9000 SMS Alarm System

(GSM Auto Dialer for Temperature Alarm Alert High & Low, Power Failure)

Laboratory Freezer & Refrigerator Connection

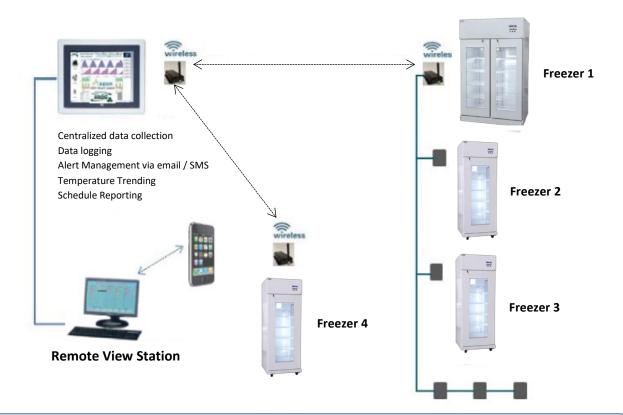
Features Include:

- Able to send SMS message when power failure or high/low temperature alarm alert is triggered.
- Max. link-up 7 units freezer(s)/refrigerator(s)
- Use Sim card device
- With external Audio & Visual alarm
- Remote alarm contact
- DC backup battery last for 72-hour
- Able to send max. 8 telephone numbers via SMS





Freezer Data Logging & Monitoring System v1.0





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