PHARMACEUTICAL & LABORATORY

PRODUCT CATALOG

Cold Chain Logistic Solutions

Specialising in

- *Biomedical & Laboratory Equipment Supplies*
- *Equipment Accessories*
- *Cold Chain Logistic Solutions*
- *After Sales and Repair Services*
- *Loaner Units*
- *OEM Services*
- *Other Solution Services*

BUATAN MALAYSIA
MADE IN MALAYSIA

ETS BIO FREEZE SDN. BHD. (717189-H)

CAB no: MDA / CAB 009
GDPMD CERT NO:MYG2161770

ISO 13485:2016
CERTIFICATE NO: MYMD 3161786

MS ISO/IEC 17021: 2015
MDQMS 29042015 CB 03

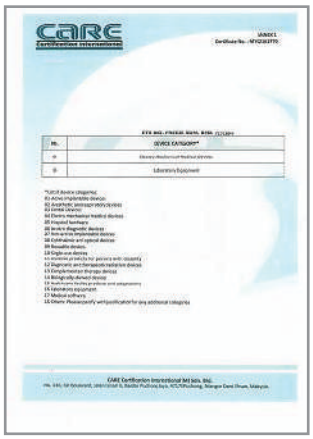
ETS BIO Freeze Sdn Bhd is a high tech company specializes in design, manufacturing, develop latest technologies of Medical Blood Bank refrigerator, Pharmaceutical refrigerator and freezer, Vaccine Ice-lined storage unit, with more than 28 years of experience. The company is successfully presided perfect 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

Certifications

ISO 13485 : 2016



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

Establishment License by MDA As Manufacturer

– Establishment License by MDA – Authorized Representative, Importer, Distributor

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Digital Thermometer & Data Logger

Model		Description
BT-3 Digital Thermometer & Hygrometer		**Function and features:** ❖ Display Indoor and outdoor temperature simultaneously ❖ Max./Min. temperature value memory ❖ Max./Min. temperature value recovery function ❖ Measuring range: Indoor temperature -30°C to +50°C / Outdoor temperature -50°C to +70°C ❖ Dimension: H110mm x L100mm
DS-1 Digital Thermometer		**Function and features:** ❖ Double sensors, internal and external ❖ Clock display ❖ Temperature measuring range: -50°C to +70°C ❖ Accuracy: ±1.0°C ❖ Dimension: L115mm x 30mm x 27.2mm
THL-2 Temperature & Humidity USB Data Logger		**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 download ❖ 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

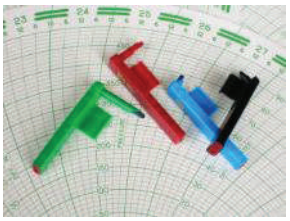
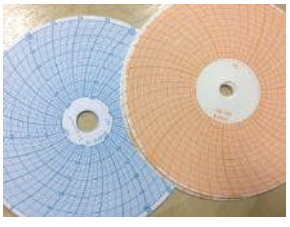


Chart Papers



Temperature Controllers

LED Digital Temperature Controller	Smart Touch Screen Controller
Size: L135mm x H31mm	Temperature setting range +2°C to +6°C
✓ Equipped with tamper-resistant touchpad and a digital temperature display to the nearest 0.1°C.	✓ Password protection ✓ 7” full touch screen controller
✓ User-friendly - Temperature settings and alarm set points can be programmed quickly and easily.	✓ Self diagnostic error code real time alarm indication ✓ Hi & Low temperature alarm setting
✓ During power failure, battery back-up system supplies power to the monitor for at least 24 hours.	✓ Power failure alarm visual and audio
✓ 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	✓ 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
✓ Compressor delay start-up, to protect compressor restart current surging	✓ Auto data acquisition with trend graph
✓ Auto defrost and sensor error	✓ Build in standard remote alarm dry contact out put
✓ Remote alarm contact provided for off-site monitoring	✓ Sensor 1 to 5 calibration mode (build in with 5nos of sensor)
✓ Password protection - Lock-temperature function protects against tampering of set temperatures/values	✓ Ambient temperature sensor ✓ Door fan switch control
✓ Off-set function for calibration use.	✓ Graphical log running hours log
✓ Two (2) sensor probes available	✓ 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°C (*Preset at +4°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	Stainless Steel					
Ext. Chamber	Epoxy powder coated	Stainless Steel	Epoxy powder coated			
Temp. Controller	Touchscreen / Large LCD display with digital microprocessor accuracy ±1°C c/w 5 probes					
Temp. Fluctuation	±1.0°C increment of temperature 0.1°C					
Insulation	60mm					
Internal Air Circulation	Forced-air					
Refrigerant	R134a CFC Free					
Condenser Fan Motor	1 no. air-cooled					
Defrost System	Auto Cycle 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	LED light with door switch (Manual ON/OFF)					
Door	Swing-out heated glass door (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 temperature calibration)					
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 Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025					

Blood Bank Refrigerators

+2 to +6°C (*Preset at +4°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.

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 1050E / 1400E

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 display with digital microprocessor accuracy ±1°C c/w 5 probes		
Temp. Fluctuation	±1.0°C increment of temperature 0.1°C		
Insulation	60mm		
Internal Air Circulation	Forced-air		
Refrigerant	R134a CFC 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/OFF)		
Door	Swing-out 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)		
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 Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025		

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

Pharmaceutical Refrigerators

+2°C to +8°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	Stainless Steel				Stainless Steel / Epoxy
Ext. Chamber	Epoxy powder coated				
Shelves	1no	3nos	3nos	3nos	4nos
Temp. Controller	Temp adjustable, LED display				
Temp Fluctuation	±1.0°C				
Internal Air Circulation	Forced-air				
Refrigerant	R134a CFC Free				
Glass Door	1 no. Heated Glass Door				
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 50Hz Single Phase (60Hz for others)				
Standard LED Alarm System					
- Hi/Low Alarm	√	√	√	√	√
- Remote Alarm Contact		√	√	√	√
- Power Failure			√	√	√
- 72-hour DC backup			√	√	√
* Accessories (Optional)	Door Fan Switch				
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025				

- ***Optional: VC 48 MOQ***

Pharmaceutical Refrigerators

+2°C to +8°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 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 powder coated			
Shelves (hold 50kg)	5pcs	5pcs	5pcs	5pcs
Temp. Controller	Temp adjustable, LED display			
Temp Fluctuation	±1.0°C			
Internal Air Circulation	Forced-air			
Refrigerant	R134a CFC Free			
Glass Door	1 no. Heated 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 Phase (60Hz for others)			
Standard LED Alarm System				
- Hi/Low Alarm	√	√	√	√
- Remote Alarm Contact	√	√	√	√
- Power Failure	√	√	√	√
- 72-hour DC backup	√	√	√	√
* Accessories (Optional)	Door Fan Switch			
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025			

Pharmaceutical Refrigerators (1,050L – 2400L)

+2°C to +8°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.

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 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 powder coated					
Temp. Controller	Temp adjustable, LED display					
Temp Fluctuation	±1.0°C					
Internal Air Circulation	Forced-air					
Refrigerant	R134a 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 Phase (60Hz for others)					
Standard LED Alarm System						
- Hi/Low Alarm	√	√	√	√	√	√
- Remote Alarm Contact	√	√	√	√	√	√
- Power Failure	√	√	√	√	√	√
- 72-hour DC backup	√	√	√	√	√	√
* Accessories (Optional)	Door Fan Switch					
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025					

Pharmaceutical Refrigerators

+2°C to +8°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	Temp adjustable, LED display				
Temp Fluctuation	±1.0°C				
Internal Air Circulation	Forced-air				
Refrigerant	R134a CFC Free				
Glass Door	Single Heated Glass Door				
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 50Hz Single Phase (60Hz for others)				
Standard LED Alarm System					
- Hi/Low Alarm	√	√	√	√	√
- Remote Alarm Contact		√	√	√	√
- Power Failure		√	√	√	√
- 72-hour DC backup		√	√	√	√
* Accessories (Optional)	Door Fan Switch				
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025				

- ***Touchscreen controller optional item***

Pharmaceutical Refrigerators

+2°C to +8°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.

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 / 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 powder coated					
Temp. Controller	Temp adjustable, LED display					
Temp Fluctuation	±1.0°C					
Internal Air Circulation	Forced-air					
Refrigerant	R134a CFC 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 Phase (60Hz for others)					
Standard LED Alarm System						
- Hi/Low Alarm	√	√	√	√	√	√
- Remote Alarm Contact	√	√	√	√	√	√
- Power Failure	√	√	√	√	√	√
- 72-hour DC backup	√	√	√	√	√	√
*Accessories (Optional)	LCD Digital Display, USB Data Logger, Drawer(s), Chart Recorder, Fan door switch					
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025					

Pharmaceutical Refrigerators

+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

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	230Vac 50Hz Single Phase (60Hz for others)		
Standard LED Alarm System			
- Hi/Low Alarm	√	√	√
- Delay Start-up	√	√	√
- Auto Defrost	√	√	√
- 24-hour DC backup	√	√	√
* Accessories (Optional)	Door Fan Switch		
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, 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.

Features:

- ✓ 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	VF25U-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	230Vac 50Hz Single Phase (60Hz for others)		
Standard LED Alarm System			
- Hi/Low Alarm	√	√	√
- Delay Start-up	√	√	√
- Auto Defrost	√	√	√
* Accessories (Optional)	Door Fan Switch		
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, 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-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-50 / 100

VF 40U-200

VF 40U-280(D)

Model	VF40U-50	VF40U-100	VF40U-200	VF40U-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	Direct			
Refrigerant	R404a CFC 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 Phase (60Hz for others)			
Standard LED Alarm System				
- Hi/Low Alarm	√	√	√	√
- Power Failure	√	√	√	√
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO 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.

Features:

- ✓ 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	Temp adjustable, LED display				
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 50Hz Single Phase (60Hz for others)				
Standard LED Alarm System					
- Hi/Low Alarm	√	√	√	√	√
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 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)

VF 25U-500(M)

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	Stainless Steel			
External Chamber	Epoxy Powder Coated Mild Steel			
Temp. Controller	Large LCD 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 Phase (60Hz for others)			
Standard LED Alarm System				
- Hi/Low Alarm	√	√	√	√
- Power Failure	√	√	√	√
- Low Battery	√	√	√	
- Door Ajar	√	√	√	√
- Dirty Condenser	√	√	√	√
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025			

- ***Defrost (M) – Manual Defrost***

Ultra-Low Temperature Freezer

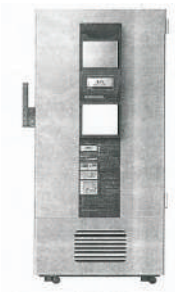
-10°C to -86°C

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.

Features:

- ✓ 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-188



VF 86U-588/700 (VIP)

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, SUS-304 / Epoxy Coated Mild Steel				
Temp. Controller	Digital display microprocessor, increment 0.1°C with compressor delay start-up temperature offset for calibration mode, auto defrost high & low alarm				
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 50Hz Single Phase (60Hz for others)				
Standard LED Alarm System					
- Hi/Low Alarm	√	√	√	√	√
- Power Failure	√	√	√	√	√
- Low Battery	√	√	√	√	√
- Door Ajar	√	√	√	√	√
- Condenser Dirty Alarm	√	√	√	√	√
- High Ambient Temp. Alarm		√			
* Accessories (Optional)	Door Fan Switch				
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025				

Ultra-Low Temperature Freezer

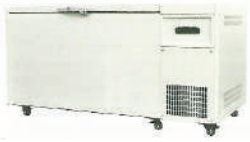
-10°C to -86°C

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.

Features:

- ✓ 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 x1095	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 Steel / Epoxy Coated Mild Steel				
Temp. Controller	Digital display microprocessor, increment 0.1°C with compressor delay start-up temperature offset for calibration mode, auto defrost high & low alarm				
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 50Hz Single Phase (60Hz for others)				
Standard LED Alarm System					
- Hi/Low Alarm	√	√	√	√	√
- Power Failure	√	√	√	√	√
- Low Battery	√	√	√	√	√
- Door Ajar	√	√	√	√	√
- Condenser Dirty Alarm	√	√	√	√	√
- High Ambient Temp. Alarm	√	√	√	√	√
* Accessories (Optional)	Door Fan Switch				
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), 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.

Features:

- ✓ 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	Aluminium				Stainless Steel		
External Chamber	Mild 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 50Hz Single Phase (60Hz for others)						
Alarm System							
- Hi/Low Alarm	√	√	√	√	√	√	√
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.

Features:

- ✓ 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

VF 40H-400

VF 40H-520

Model	VF40H-100	VF40H-200	VF40H-300	VF40H-400	VF40H-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 adjustable, LED digital microprocessor PID				
Temperature Fluctuation	±2.0°C				
Cooling System	Direct Cooling Wall				
Refrigerant CFC	R134a/R404aCFC-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 50Hz Single Phase (60Hz for others)				
Alarm System					
- Hi/Low Alarm	√	√	√	√	√
- Power Failure	Optional				
- Remote Alarm Contact	Optional				
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 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.

Features:

- ✓ 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

VI 1000

VI 1500

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	Epoxy Coated Mild Steel				
Temp. Controller	Temp adjustable, LED digital microprocessor PID					
Temp/ Fluctuation	±0.1°C PID Control					
Internal Air Circulation	Forced-air					
Refrigerant	R134a/R407 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 Phase (60Hz for others)					
Access Port 60mm	1 no.					
Alarm System						
- Hi/Low Alarm	√	√	√	√	√	√
- Power Failure	√	√	√	√	√	√
- Remote Alarm Contact	√	√	√	√	√	√
- 72-hour Display & Backup	√	√	√	√	√	√
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025					

Laboratory Combined Refrigerator – Freezer

(for Blood Bank & Pharmacy)

-10°C to -40°C (Freezer) | +2°C to +8°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.

Features:

- ✓ 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	VCF-180	VCF-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 digital microprocessor PID	
Refrigerator		
❖ 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 CFC-free	
Freezer		
❖ 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/R507 CFC-free	
Door	Freezer – 1 no. solid door & Refrigerator - 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 fin and tube	
Drainage	Hot pipe evaporation type	
Power Voltage	240Vac 50Hz Single Phase (60Hz for others)	
Alarm System		
- Hi/Low Alarm	√	√
- Power Failure	√	√
- Remote Alarm Contact	√	√
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.

Features:

- ✓ 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 Coated Mild Steel	
Temp. Range	0°C to 8°C (temp adjustable) -20°C (temp adjustable)	
Temperature Controller	LED Digital display microprocessor, increment 0.1°C with compressor delay start-up temperature offset for calibration mode, 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 50Hz Single/3 Phase	
Alarm System	1pc	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.

Features:

- ✓ 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	Stainless Steel					
Temp Range	-10°C to -45°C / -10°C to -75°C (temp adjustable)					-10°C to -75°C
Temp Fluctuation	±1°C to 2°C					
Internal Air Circulation	Forced-air					
Refrigerant	R507 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 mins					
Standard LED Alarm	Hi/Low 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) IEC 61010-1 (2010), GDPMD, ISO IEC 17025					

Ice-Lined Refrigerator

0°C to +8°C (backup time 86hrs)

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.

Features:

- ✓ 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 86 hours) in case of power failure
- ✓ CFC free insulation and refrigerant

VC 500-IL

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 Digital Microprocessor / Auto defrost, Delay start-up, Offset mode			
Backup Time	Hold 48 hours when power cuts off			
Internal Chamber	Stainless Steel			
External Chamber	Epoxy Coated Mild Steel / Stainless Steel			
Temp. Range	Ambient +5°C to +40°C		+2°C to +8°C	
Temp. Fluctuation	±1°C			
Internal Circulation	Gravity		Direct Cooling	
Insulation Foaming	100mm			
Condenser	Tube and 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 no Solid			
Refrigerant	R134a			
Power Voltage	240Vac 50Hz Single-phase			
Standard LED Alarm System				
- Hi/Low Alarm	✓	✓	✓	✓
- Power Failure				✓
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO 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.

Features:

- ✓ Constructed by high quality stainless steel, they are anti-corrosive 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	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025				

Portable Freezer & Combined Refrigerator-Freezer

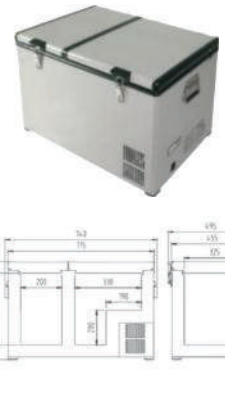
ETS Compressor Portable Freezer (DC)

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)

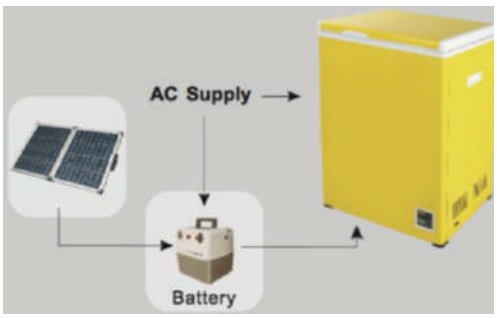


VF PF-60DC

VF PF-80DC

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 520	740 x 495 x 600
Dim. Int (mm) W x D x H	125 x 370 x 300	250 x 496.5 x 303.5	200 x 325 x 400 / 330 x 325 x 400	200 x 325 x 480 / 330 x 325 x 480
Capacity	15L	35L	60L	80L
Internal Chamber	ABS			
External Chamber	Epoxy Coated Mild Steel			
Temperature Control / Range	LED Digital Display / +10°C to -22°C			
Temperature Fluctuation	±1.0°C			
Internal Cooling System	Direct Cooling Wall			
Refrigerant	R134a CFC-free			
Power Voltage	12VAC/DC or 24VAC/DC			
Display	Digital (use DC battery)			
Net Weight (KG)	8	16	29	31.5
Hold Temperature w/o DC supply at +2°C to +8°C	Up to 3 to 4 hours			
Safety Features & Certification	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025			



Features:

- ✓ Environmental friendly – rechargeable by solar power
- ✓ Convenient

Mortuary Refrigerator

+2°C to +8°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.

Features:

- ✓ 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 2B

MOT 3B

MOT 2B- SO

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			

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

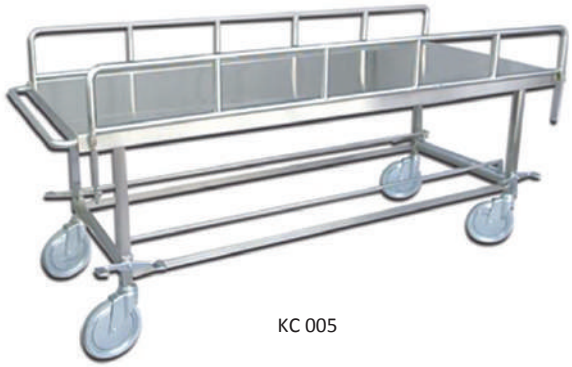
Model	KC 004
Dim. (mm) L x W x H	2000 x 810 x 1300
Deadweight	N/A
Material	Stainless Steel 304
Basins	N/A
Accessories	N/A
Castor	4 nos of 8 inches swivel castor centre direction & total locking system
Safety	With both side rail guards install 6 nos of stainless steel roller for easy load & unload. Front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

Kapan Trolley

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.

Features:

- ✓ 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.

KC 009

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	
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

MEDILOX Disinfecting Solution

Medilox

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

1Kg 4Kg

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

Medilox
HypoActive

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

Automatic Injection System

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.

Features:

- ✓ 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 989B

KRS-A1

KR 100

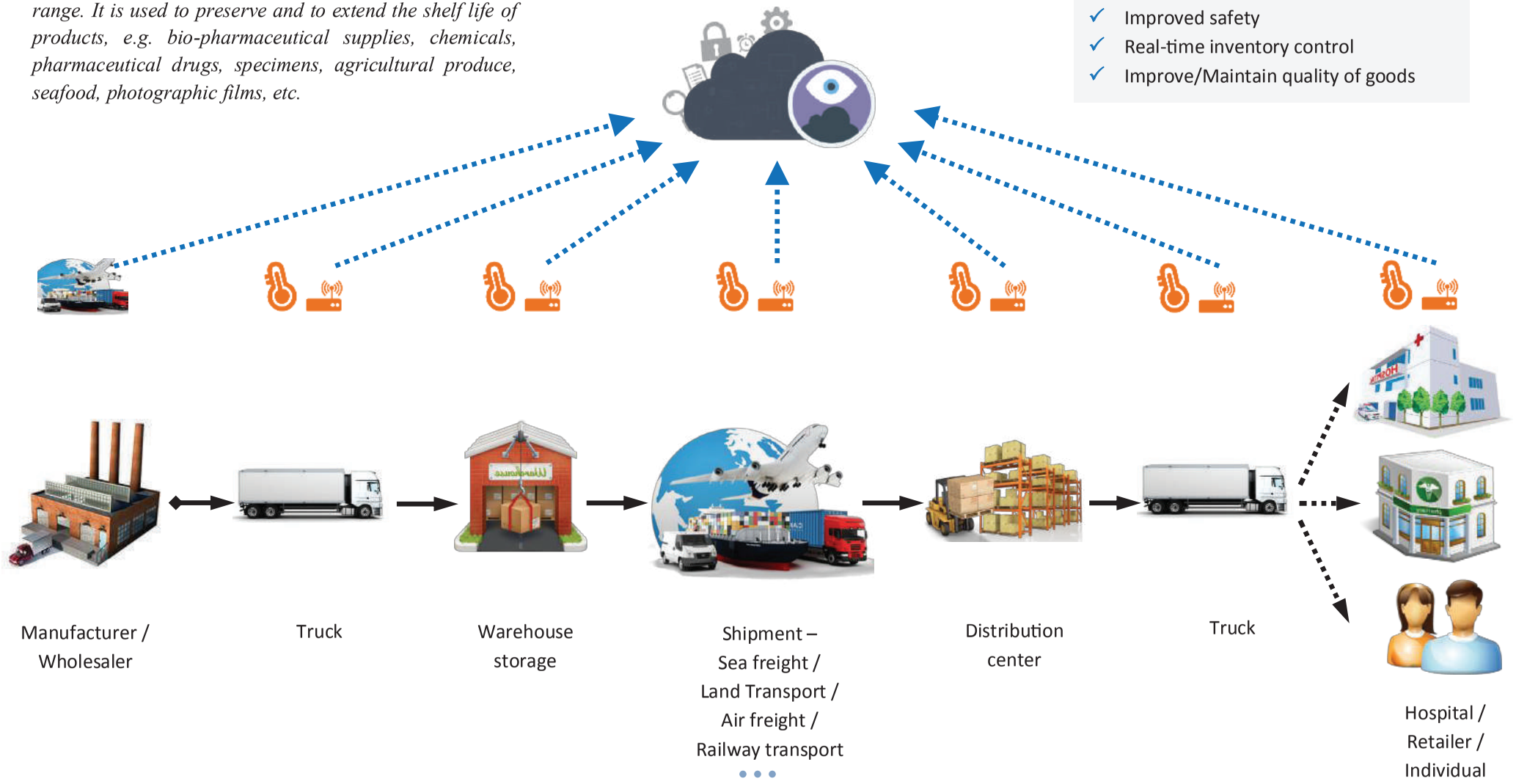
Model	KRS 989B	KRS-A1	KR 100
Dim. Ext (mm) W x D x H	350 x 215 x 240	485 x 375 x 440	650 x 550 x 810
Dim. Int (mm) W x D x H	315 x 190 x 170	480 x 315 x 320	580 x 470 x 520
Internal Chamber	Stainless Steel		
Capacity	10L	48L	140L
Weight	2.95KG	11.75KG	30KG
UV Lamp	6W x 1 no.	10W x 1 no.	20W x 1 no.
Shelf	2 nos.	2 nos.	3 nos.
Power Supply	100V to 240 VAC 50Hz/60Hz		240VAC 50Hz
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

A temperature-controlled supply chain solution – using uninterrupted series of refrigerated production, storage and distribution activities, along with associated equipment and logistics, which to maintain a desired low-temperature range. It is used to preserve and to extend the shelf life of products, e.g. bio-pharmaceutical supplies, chemicals, pharmaceutical drugs, specimens, agricultural produce, seafood, photographic films, etc.

Features:

- ✓ Transportation efficiency
- ✓ Lower operating costs
- ✓ Increase operation efficiency
- ✓ Improved safety
- ✓ Real-time inventory control
- ✓ Improve/Maintain quality of goods



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
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

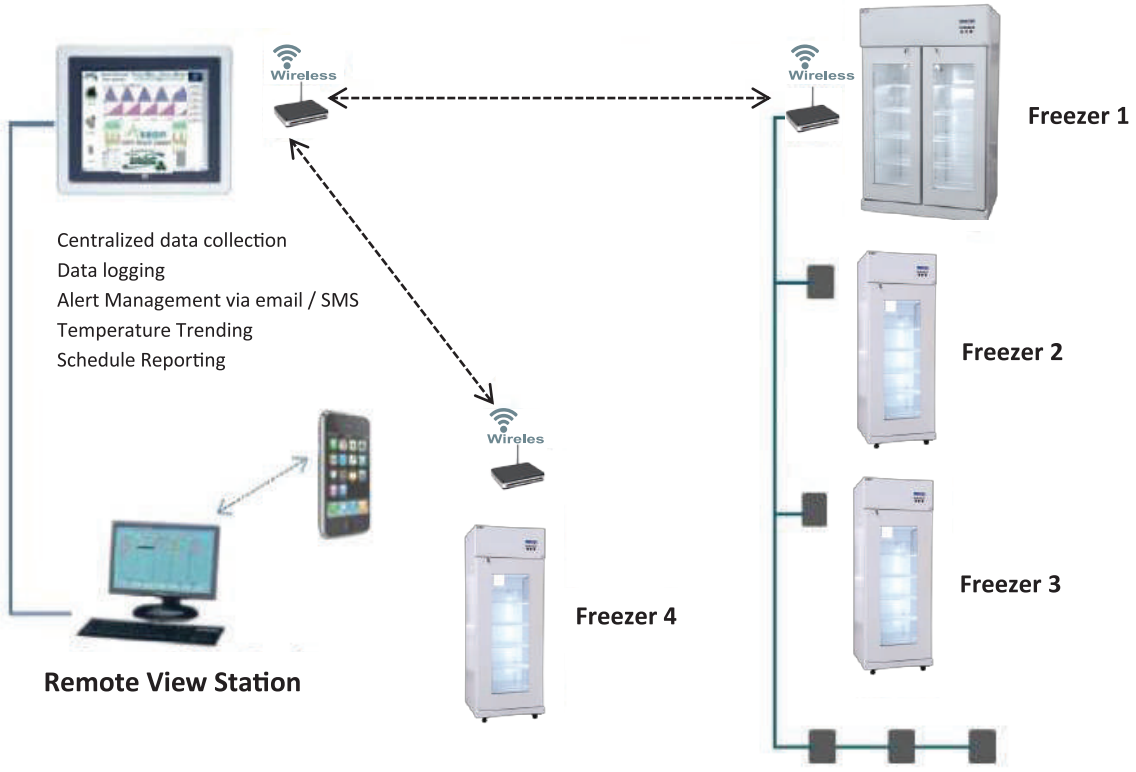
(GSM Auto Dialer for
Temperature Alarm Alert
High & Low, Power Failure)

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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