

PHARMACEUTICAL& LABORATORY





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



















CAB no: MDA / CAB 009 ISO 13485:2016 MS ISO/IEC 17021: 2015 GDPMD CERT NO:MYG2161770 CERTIFICATE NO: MYMD 3161786 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

Control of the Contro

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

<u>Model</u> <u>Description</u>

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

THL-2

Digital

Thermometer

Temperature &

Humidity USB

Data Logger



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

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

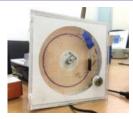


Function and features:

- 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

- ✓ 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

+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			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 of	f temperature 0.1°C		
Insulation			60r	mm		
Internal Air Circulation			Force	ed-air		
Refrigerant			R134a (CFC Free		
Condenser Fan Motor			1 no. air	r-cooled		
Defrost System			Auto Cyc	e 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		Swin	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, 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 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°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 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.	14 nos	15 nos.		
Int. Chamber		Stainless Steel			
Ext. Chamber		Epoxy powder coated			
Temp. Controller	Touchscreen / Large LCD d	isplay with digital microprocessor accu	racy ±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 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. 3	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°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 70E	VC 100E	VC 200E	VC 300E		
Dim. Ext (mm) W x D x H	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 410 x 510	420 x 400 x 700	560 x 450 x 900	495 x 590 x 1200		
Capacity	70L	100L	200L	345L		
Int. Chamber		Stainless Steel		Stainless Steel / Epoxy		
Ext. Chamber		Epoxy pow	der coated			
Shelves	3nos	3nos	3nos	4nos		
Temp. Controller		Temp adjustab	le, LED display			
Temp Fluctuation		±1.	0°C			
Internal Air Circulation		Force	ed-air			
Refrigerant		R134a C	CFC Free			
Glass Door		1 no. Heated	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	200W	200W	200W	200W		
Power Voltage		230Vac 50Hz Single Pl	hase (60Hz for others)			
Standard LED Alarm System						
- Hi/Low Alarm	V	٧	٧	٧		
- Remote Alarm Contact	V	٧	٧	٧		
- Power Failure		٧	٧	٧		
- 72-hour DC backup	V V					
* 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		



+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.

- ✓ 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	le, LED display			
Temp Fluctuation		±1.	0°C			
Internal Air Circulation		Force	ed-air			
Refrigerant		R134a C	CFC Free			
Glass Door		1 no. Heated	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	nase (60Hz for others)			
Standard LED Alarm System						
- Hi/Low Alarm	٧	٧	٧	٧		
- Remote Alarm Contact	V	V	٧	٧		
- Power Failure	٧	V	٧	٧		
- 72-hour DC backup	٧	v v				
* 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°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.

- ✓ 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 adjustat	ole, LED display		
Temp Fluctuation			±1.	0°C		
Internal Air Circulation			Force	ed-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 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	V V V V					
* Accessories (Optional)	Door Fan Switch					
Safety Features & Certification		ISO 13485, Electri	ic Safety Test (EST) IEC	61010-1 (2010), GDPN	MD, ISO IEC 17025	



+2°C to +8°C / 0°C to +14°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 130

VC 200(D)

VC 500 / 600 / 800

Model	VC 130	VC 200 (D)	VC 500	VC 600	VC 800		
Dim. Ext (mm) W x D x H	570 x 670 x 1135	580 x 750 x 1800	640 x 800 x 2070	700 x 800 x 2070	790 x 810 x 2245		
Dim. Int (mm) W x D x H	540 x 530 x 550	430 x 400 x 586	540 x 650 x 1430	640 x 640 x 1430	660 x 720 x 1670		
Capacity	130L	200L	500L	600L	800L		
Int. Chamber	Stainless Steel 304 (Chemical resistance)	Stainless Steel 304	Epoxy Coated Mild Steel	Epoxy Coated Mild Steel	Epoxy Coated Mild Steel		
Ext. Chamber	Stainless Steel 304 (Chemical resistance)	Epoxy Powder Coated	Epoxy Coated Mild Steel	Epoxy Coated Mild Steel	Epoxy Coated Mild Steel		
Shelves (hold 50kg)	2pcs	4pcs	5pcs	5pcs	5pcs		
Temp. Controller		Tem	p adjustable, LED displa	ч			
Temp Fluctuation			±1.0°C				
Internal Air Circulation			Forced-air				
Refrigerant			R134a CFC Free				
Glass Door		Sin	gle Heated Glass Door				
Door Lock / Castor	1 no. / 4 nos	2 nos. / 4 nos.	1 no. / 4 nos.	1 no. / 4 nos.	1 no. / 4 nos.		
Comp. Recip. Hermetic	1/4 HP	1/3 HP	1/2 HP	1/2 HP	1/2 HP		
Power Voltage		230Vac 50H	z Single Phase (60Hz fo	r others)			
Standard LED Alarm System							
- Hi/Low Alarm	٧	٧	٧	٧	V		
- Remote Alarm Contact	٧	٧	٧	٧	٧		
- Power Failure	٧	٧	٧	٧	٧		
- 72-hour DC backup	V V V						
* Accessories (Optional)	Door Fan Switch						
Safety Features & Certification	ISO 134	185, Electric Safety Test	: (EST) IEC 61010-1 (20:	10), GDPMD, ISO IEC 1	7025		

Touchscreen controller optional item



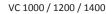
+2°C to +8°C

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.

- ✓ 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 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	V	٧	٧
- Remote Alarm Contact	٧	٧	٧	٧	٧	٧
- Power Failure	٧	٧	٧	٧	٧	٧
- 72-hour DC backup	V V V V					
*Accessories (Optional)		LCD Digital Display	, USB Data Logger, Dra	wer(s), Chart Recorder	, Fan door switch	
Safety Features & Certification		ISO 13485, Electri	c Safety Test (EST) IEC	61010-1 (2010), GDPM	D, 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.

- ✓ 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







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	V	V	
- Delay Start-up	٧	V	V	
- Auto Defrost	٧	٧	٧	
- 24-hour DC backup	V			
* 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.

- 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	23	80Vac 50Hz Single Phase (60Hz for othe	rs)		
Standard LED Alarm System					
- Hi/Low Alarm	٧	٧	٧		
- Delay Start-up	٧	٧	٧		
- Auto Defrost	٧	٧	٧		
* 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-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-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 adjustab	ole, LED display	
Internal Air Circulation		Dir	ect	
Refrigerant		R404a C	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 Pl	hase (60Hz for others)	
Standard LED Alarm System				
- Hi/Low Alarm	٧	V	٧	V
- Power Failure	٧	V	٧	٧
Safety Features & Certification	ISO 13485,	Electric Safety Test (EST) IEC	61010-1 (2010), GDPMD, ISO	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 dis	play			
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	٧	٧	٧	٧	٧		
Safety Features & Certification	ISO	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-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		Stainle	ss Steel			
External Chamber		Epoxy Powder C	oated Mild Steel			
Temp. Controller		Large LCI	D Display			
Door Lock	1 no.	1 no.	1 no.	1 no.		
Castor	4 nos.	4 nos.	4 nos.	4 nos.		
Internal Cooling		Dir	ect			
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 Pl	hase (60Hz for others)			
Standard LED Alarm System						
- Hi/Low Alarm	٧	٧	٧	٧		
- Power Failure	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, 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.

- ✓ 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-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, 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	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	V	٧			
- High Ambient Temp. Alarm		V						
* 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 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 St	teel / 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	V V V						
* 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-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	inium			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 50	Hz 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



Model	VF40H-100	VF40H-200	VF40H-300	VF40H-400	VF40H-520	
Dim. Ext (mm) W x D x H	1270 x 790 x 990	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	540 x 400 x 590	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/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 5	0Hz Single Phase (60Hz	for others)		
Alarm System						
- Hi/Low Alarm	٧	٧	٧	٧	V	
- 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 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 P	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			1:	no.		
Alarm System						
- Hi/Low Alarm	٧	√	٧	٧	٧	٧
- Power Failure	٧	√	٧	٧	V	٧
- Remote Alarm Contact	٧	٧	٧	٧	٧	٧
- 72-hour Display & Backup	٧	٧	٧	٧	٧	٧
Safety Features & Certification		ISO 13485, Electr	ic Safety Test (EST) IEC	61010-1 (2010), GDPN	1D, ISO IEC 17025	



Laboratory Combined Isolated Refrigerator – Freezer (for Blood Bank & Pharmacy)

-10°C to -40°C (Freezer) | +2°C to +8°C / 0°C to +14°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 ISO

Model	VC F-180	VC F-400 ISO			
Overall Dim. Ext (mm)	570 x 670 x 1450	770 × 715 × 1980			
W x D x H Overall Capacity	185L	430L			
Int. Chamber / Ext. Chamber	Stainless Steel 304	Stainless Steel 304 /Epoxy Coated Mild Steel			
Temp. Controller	Temp adjustable, LED di				
<u>Refrigerator</u>	Temp adjustable, LED an	Sittle initeroprocessor in D			
❖ Dim. Int (mm) W x D x H	470 x 520 x 550	550 x 520 x 425 (Solid Door) Bottom			
* Capacity	135L	120L			
CapacityTemp. Accuracy	±1				
* Temp. Control		0°C to ±14°C with 3 Drawers/Shelves			
* Refrigerant					
	R134a CFC-free				
Freezer ❖ Dim. Int (mm) W x D x H	470 x 520 x 200	660 x 610 x 800 (Glass Door) Upper			
❖ Capacity	470 X 320 X 200	320L			
Temp. Accuracy	±2				
❖ Temp. Accuracy❖ Temp. Control	Direct Cooling -10°C to -25°C	Direct Cooling -0°C to -40°C			
* Refrigerant		44a CFC-free			
	Freezer – 1 no. solid door & Refrigerator - 1 no.				
Door	heated glass door	2 nos Upper Glass door, Bottom Solid Door			
Door Lock / Castor	2 nos. / 4 nos.	2 nos. / 4 nos.			
PVC Shelves	2 nos.	2 nos.			
Compressor	1/3 HP Semi-hermetic	3/4 HP Semi-hermetic			
Condenser	Air cooled f	in and tube			
Drainage	Hot pipe eva	poration type			
Power Voltage	240Vac 50Hz Single Phase (60Hz for others)				
Alarm System					
- Hi/Low Alarm	٧	٧			
- Power Failure	٧	٧			
- Remote Alarm Contact	٧	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 adjustab	le) -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 50H	Iz Single/3 Phase			
Alarm System	1pc	1рс			
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	emp 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/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) IE	C 61010-1 (2010), G	DPMD, ISO IEC 1702	25		

The Ice-lined Refrigerators operate within temperature range of 0° C to $+8^{\circ}$ 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 86 hours) in case of power failure
- ✓ CFC free insulation and refrigerant



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	Gra	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	✓	\checkmark	\checkmark	✓	
- Power Failure				✓	
Safety Features & Certification	ISO 13485, I	Electric Safety Test (EST) IEC	61010-1 (2010), GDPMD, ISO	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	50 70				
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	ISO 13485, Electric Safety Test (EST) IEC 61010-1 (2010), GDPMD, ISO IEC 17025					



Portable Freezer & Combined Refrigerator-Freezer

ETS Compressor Portable Freezer (DC)



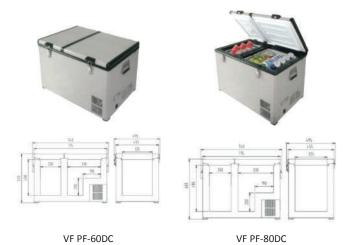


VF PF-35DC

VF PF-12DC

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.

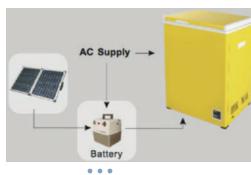
ETS Combined Refrigerator/Freezer (DC)



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 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 o	r 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, E	lectric Safety Test (EST) IEC	61010-1 (2010), GDPMD, IS	SO IEC 17025				





- Environmental friendlyrechargeable bysolar 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.

- 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 microprocess	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 C	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



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.

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



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	
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.

- ✓ 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.



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



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





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



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

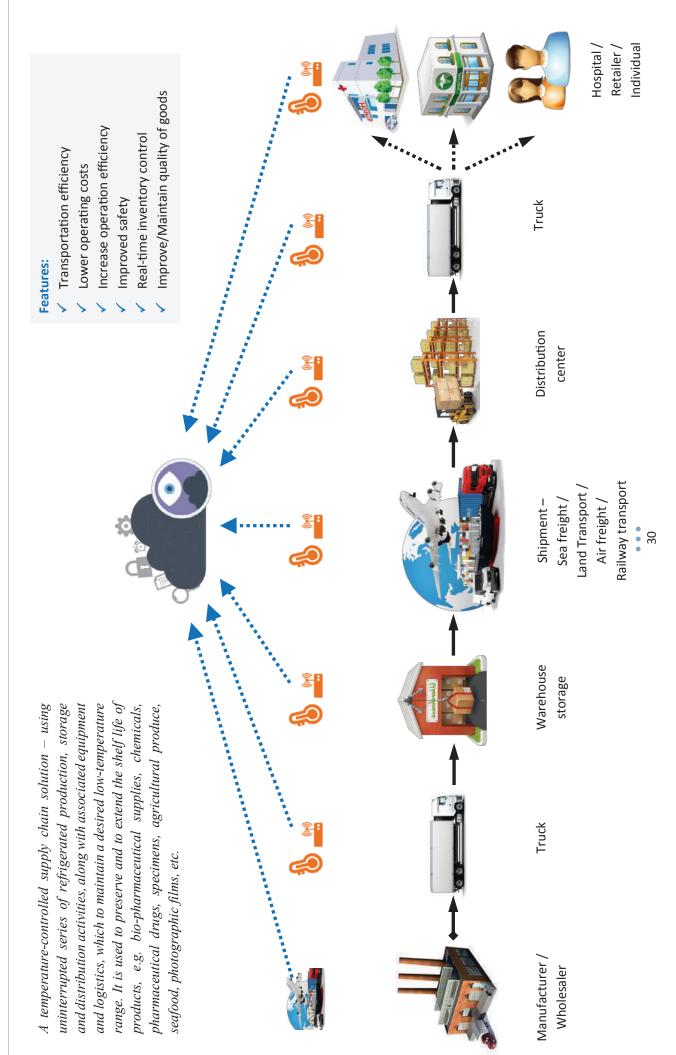


KR 100

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	AC 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







Low Temperature Freezer -10°C to -25°C

111111111111111111111111111111111111111							
Model VF SL-120A	1200 x 810 x 2000	Both interior and exterior – Stainless steel	-10°C to 25°C	Air cooling	90mm	1.3kW	nterior shelf method Net shelf / Trays on tracks
Model	Dimensions (mm) $W \times D \times H$	Made of	Temperature	Freeze method	Insulated thickness 90mm	Freezer Unit 1.3kW	Interior shelf method





Both interior and exterior – Stainless

-10°C to -25°C

steel

Made of Temperature Freeze method

Air cooling

90mm 1.3kW

Insulated thickness

Freezer Unit

 $1200 \times 810 \times 2000$

Dimensions (mm) W x D x H

Model VF SL-120G





Both interior and exterior – Stainless steel

-10°C to -25°C

Temperature

Air cooling

Freeze method

90mm

Insulated thickness

0.6kW

Freezer Unit

Dimensions (mm) $W \times D \times H = 680 \times 750 \times 800$

Made of

VF SL-68T

Model

Net shelf / Trays on tracks

Interior shelf method



Both interior and exterior – Stainless

-10°C to -25°C

steel

Made of Temperature Air cooling

Freeze method

90mm

Insulated thickness

Interior shelf method Net shelf

Freezer Unit 0.6kW

 $680 \times 750 \times 1100$

Dimensions (mm) $W \times D \times H$

VF SL-68G

Model

Interior shelf method Net shelf

Air-cooled

Refrigerant Cooling System Type 2 nos.

Shelf

350W R404a

Compressor Output

98KG

268L

Capacity **Net Weight**

Temperature

Power Supply

Dimensions (mm) W x D x H

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

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

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





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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