Seltis Seltis **Specialist In Medical Lab Freezers** 86°C FREEZER







The Ultra Low temperature freezer is used for rapid freezing and long term storage. The equipment is also applied to the laboratory materials for researches such as DNA, RNA, biological cells, organic tissues, blood samples, antibodies etc.

PRODUCT FEATURES

STRUCTURE

- Anti-corrosion 304 grade Stainless Steel Interior with epoxy powder Coated cold rolled 1.2mm thick steel exterior.
- Stainless Steel Compartments with adjustable SS Shelves and polystyrene insulated washable and removable SS inner doors.
- Use of Polyurethane Foam with 80mm Vacuum Insulation panel.
- Triple Sealed Silicon gasket to minimize Cold air loss and assure stable temperature.
- System takes less than 4 hrs to achieve -86°c temperature with empty freezer.
- Washable and removable Front panel Condenser air filter.
- Heavy duty Swivel locking Castors and two front to back adjustable leveling feet.
- System provides power management and fluctuation correction through Voltage regulator / booster.
- Ergonomic door design with door Key lock and pad lock system with optional RFID and fingerprint access for additional sample security.
- Easy to open integrated outer door latch and handle allows one handed opening and closing.
- Rim Heating on the door panel to avoid frosting.
- Warm up time of empty freezer from -86°c to -40°c is 4-6hrs.
- Warm up time of sample loaded freezer from -86°c to 0°c is more than 45hrs
- Air Cooled Condenser and aero dynamic axial fan motor.
- Decompression valve / auto heated pressure equalization port for easy door opening instantly
- · Automatic defrost system.
- · System provides all door opening and closing duration status record.
- Temperature recovery in less than 15 minutes after door opening for one minute.

-B6°C FREEZER

CONTROL & SAFETY SYSTEM

- Microprocessor Eye Level LED touch screen control shows temperature graph & various operating parameters like cabinet temperature, set temperature, voltage & ambient temperature on the control panel with on board data recording and USB port for data transfer upto 10-15 years
- All error/faults displays on control board through self diagnostic system including filter and battery change.
- Battery back for temperature display and alarm for more than 72 hrs incase of power failure.
- Audio & Visual alarm incase of power failure, high and low temperature, filter clean, hot condenser, door ajar, Low battery, Sensor error, System failure, abnormal voltage etc.
- Programmable high & Low temperature alarm with on/off power switch and lockable on/off alarm.
- Six PIN Password protections for sample security, power, temperature and alarm settings.
- Automatic restart and restoration of alarm and set points to user programmed level after power interruption.

REFRIGERATION SYSTEM

- High performance and energy saving mode using two stage CFC, HFC & HCFC Free environment friendly non flammable cascade refrigeration system with hermetically dual compressors.
- High & Low Cut facility for Compressors.
- Large thermal box insulated brazed plate heat exchanger ensuring optimal heat removal and system stability when operating in extreme conditions.
- Down feed Cold wall evaporator design provides superior refrigerant flow and maximizes cooling power and ensures maximum cold transfer into the freezer and heat removal from the chamber.
- Evaporator design enhances refrigerant flow increasing the overall efficiency, temperature uniformity and recovery performance.
- Time delay and temperature delay mode of operation for second stage compressors.
- Inverter technology compressor for low power consumption.



-86°c Ultra Low Temperature Deep Freezer

Desir	Model	ST-86V411	ST-86V451	ST-86V525	ST-86V585	ST-86V651	ST-86V725	ST-86V840	ST-86V950		
Basic	asic Cabinet Type Upright										
	Compartment	4/5									
	Door	2/4/5									
Technical Parameter	Cooling Type	Direct Cooling									
	Ground Clearance (mm)	100/128									
	Temperature Performance	-86°c (±2°c)									
	Refrigerant	R290 / R170									
	Power Consumption(kWh/day)	7.5 kwh	7.5 kwh	7.5 kwh	7.5 kwh	9.5 kwh	9.5 kwh	9.5 kwh	11 kwh		
	Noise Level(db)	49									
T	Ambient Temperature (C)	10°c~45°c									
Temperature	Temperature Range (C)	-50°c~ -86°C									
	Compressor	1hp x 2									
Controller	Temperature Uniformity	±2°c									
	Temperature Controller	Microprocessor 7" LED / LCD Touch Screen with 0.1°c/1°c increment									
	Sensor Type	PT100/PT1000									
	Voltage / Frequency	220V/50Hz									
Electronic parameter	Heat Output(W)	320	320	330	330	360	370	380	390		
	Electricity (A)	7	7	7	7	7	7	7	7		
	Capacity (L)	411	451	525	585	651	725	840	950		
Size	Net/Gross Weight(Kg)	270/295	280/300	290/315	310/325	325/350	345/370	390/405	410/425		
	Outer Size (WxDxH)mm	785x995x1945	800x995x1945	840x995x1945	880x995x1955	940x995x1955	995x1000x1955	1100x1030x1955	1160x1040x1995		
	Inner Size (WxDxH)mm	470x695x1260	495x695x1260	600x695x1260	670x695x1260	745x695x1260	830x695x1260	960x695x1260	1000x695x1295		
	High / Low Temperature										
	Power										
	Abnormal Voltage										
	Sensor Malfunction										
	Filter Check										
	Temp. Controller Malfunction										
Alarm & System	Battery Backup Malfunction										
	Ambient Temperature										
	Door Ajar	V									
	Test Hole/Diameter	3/25mm									
	Foot										
	USB Port										
	Remote Alarm Contact										
	RS232/485 Port (4-20ma	,									
	Output) Dry Contacts	$\sqrt{}$									
	Castor										
	Certification ISO 9001, CE Certified, FDA, UL, IEC 60601-1 & IEC 61010-1, ROHS										

(Design and Dimensions are subject to change without notice for further improvement)

Accessory





















SLIDING STORAGE RACKS AND BOXES INFORMATION

Model	Compartments	Total Racks	Racks Type	Total Boxes	Total 2ml Vials
ST-86 V411	4	16	(5x4) (4x4)	288	28800
ST-86 V451	4	16	(5x4) (4x4)	300	30000
ST-86 V525	4	16	(5x5) (5x4)	360	36000
ST-86 V585	4	16	(5x5)	400	40000
ST-86 V651	4	20	(5x5) (5x4)	450	45000
ST-86 V725	4	20	(5x5)	500	50000
ST-86 V840	4	24	(5x5)	600	60000
ST-86 V950	4	28	(5x5)	700	70000

Mfr SELECT REFRIGERATION

E-283, Patel Garden, Dwarka Mor, New Delhi-110059 INDIA Ph: 9717569994, 9717569992, 8076360710

E-mail: info@selectrefrigeration.in

Website: www.seltis.in