-86℃ Ultra Low Temperature Freezer (E Series)

-86℃ ULT freezer is specially designed and manufactured for long term storage of various biological products, including viruses, germs, erythrocytes, leucocyte and cutis. Applications can be found in blood banks, hospitals, edipemic prevention service, and research institutes, laboratories in electronic and chemical plants and biological engineering institutes.

Features

- Super-cooling technology：The powerful cooling system drives the unique mixed refrigeration system for fast cooling down. This system is stable, energy saving and easy maintenance.
- Advanced thermal insulation：The insulation are designed with the latest generation of VIP technology to achieve thermal conductivity of 0.005 W(m.K). That makes ULTs more efficient in Insulation and less heat loss, so as to achieve the purpose of energy saving as well as space-saving.
- 7" LCD touch screen：Easy operation and observation.
- Smart Operating System：Authorities, alarms, curve & events.
- Advanced insulation tech：Fumed Silicon V.I.P & PURF.
- Multi-layer sealing design：Foamed inner doors with silicon gaskets.
- Energy saving：More efficient cooling system.
- Eco-friendly：CFC-free refrigerant & insulation.

Structure

- 7’’ touch screen
- Vaccum release port
- USB data logger
- Quick-release filter
- Adjustable shelf
- Remote interface：RS232/485
- File Box
- PT100 sensor
- Pressure-regulated inner door handle
- Multi-layer silicone sealing gaskets
- Low temperature resistance
- Stainless steel inner door filled with PURF
- Detachable design
- Ergonomic Handle
- Access port

Optional

- Chart recorder
- Data logger
- CO2 back up system
- LN2 back up system
- Gloves



Alarm System

- High/low temperature
- Power failure
- Abnormal voltage
- Sensor error
- Door ajar
- Filter screen check
- Thermostat failure
- Low battery
- Condenser clean
- High ambient temperature
- Power failure backup (controller): 72H
- Remote alarm port

Technical Parameter

Model	FSF-86V340E	FSF-86V408E	FSF-86V588E	FSF-86V728E	FSF-86V838E
Cooling method	Direct Cooling				
Defrost	Manual				
Temperature range	-40℃～-86℃				
Ambient temperature	10~32℃				
Display	7" LCD touch display				
Access port QTY/Dia.	2/25mm				
Outside material	Power coated steel				
Inside material	Stainless steel				
Castor	Y/4 4Universal				
Shelf/drawer QTY	Stainless steel shelf/3				
Inside door	2				
Refrigerant	R4001(mixed gas)				
Temp. controller	Microprocessor				
System	Auto-cascade				
Sensor	PT100				
Compressor brand/QTY	SECOP/1	SECOP/1	SECOP/2	SECOP/2	SECOP/2
Capacity(L)	340	408	588	728	838
Insulation	PURF+VIP				
Inner door material/QTY	Foamed SS/2				
Racks	12*(4X4)	16*(5x5,4x4)	16*(5x5)	18*(5x4)+6*(6x4)	24*(5x5)
Boxes (2 Inches)	192	288	400	504	600
Samples(2ml)	19,200	28800	40000	50400	60000
Voltage	220V 50Hz/60Hz				
Power(W)	810	890	1500	1400	1700
Current(A)	5.13	5.34	10.35	10.37	10.75
Power consumption	11.63KWh/24h	10.92KWh/24h	16.02KWh/24h	23.44KWh/24h	19.27KWh/24h
Noise(db)	52	50	53	53	55
Package size(W*D*H)(mm)	955*1085*2080	963*1025*2125	970*1185*2200	1320*1010*2200	1263*1165*2210
Exterior size(W*D*H)(mm)	854*1006*1907	872*1028*1945.5	891*1155*1994.5	1248*97*1994.5	1179*1135*1994.5
Interior size(W*D*H)(mm)	488*607*1140	606*575*1180	606*738*1310	963*571*1350	894*718*1310
NW./GW.（kg)	224.5/297.5	235/298	283/345	316/399.5	332/418.5
USB Intereface	Yes				
RS232/485	Yes				