

-86°C ULTRA-LOW FREEZERS



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An -86°C Ultra Low Temperature (ULT) Deep Freezer is designed for the safe, long-term storage of sensitive biological and pharmaceutical materials. It is commonly used in hospitals, research laboratories, biotechnology labs, and pharmaceutical companies to preserve DNA, RNA, vaccines, blood samples, tissues, bacteria, and other critical specimens. The ultra-low temperature helps prevent degradation and maintains sample stability and integrity for extended periods.

FEATURES

- High-performance reliable compressors
- Excellent performance even in extreme ambient conditions
- Low noise operation @ 50Db
- CFC-free mixed refrigerant
- Internal V.I.P panels reduce cold loss
- CFC-free high-density PU foam
- Better warm up time keeps the samples cold as long as possible once power failure
- Eye-level 7" color touch screen for simple and intuitive operation
- Integrated temperature display, graphs,
- Freezer status, and events monitoring
- Complete alarm system escorts your valuable bio-samples
- Internal USB data logger
- Equipped with remote alarm interface
- Optional RS485 contact
- Optional water cooling system

- Optional temperature chart recorder
- Optional electronic Password Lock
- Automatic vacuum release port allows
- Users to open & close the door frequently
- Ergonomic one-handed operation handle
- File box design for keeping daily files
- Standard built-in door lock and padlock port
- Quick-release condenser cover
- Sturdy shell & chamber for longer service life
- Heavy duty universal casters



TECHNICAL PARAMETERS

MODEL	BR-86V338	BR-86V408	BR-86V588	BR-86V728	BR-86V838
Shelf/drawer QTY	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3
Cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
Defrost	Manual	Manual	Manual	Manual	Manual
Refrigerant	R4001	R4001	R4001	R4001	R4001
Noise(db)	50	53	53	55	55
Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C
Temperature range (°C)	-40~86°C	-40~86°C	-40~86°C	-40~86°C	-40~86°C
Compressor brand/QTY	SECOP/2	SECOP/2	SECOP/2	SECOP/2	SECOP/2
Cooling system	Dual cooling	Dual cooling	Dual cooling	Dual cooling	Dual cooling
Sensor	PT 100	PT 100	PT 100	PT 100	PT 100
Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen
Pull down time (min)	210	245	178	247	268
Warm up time (min)	180	234	273	292	304
Voltage/frequency (V/Hz)	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Power Consumption(kWh/24h)	7.93	13.8	16.23	23.44	19.98
Power (W)	620W	1350W	1500W	1400W	1700W
Internal material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
External material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
Insulation	VIP + PURF	VIP + PURF	VIP + PURF	VIP + PURF	VIP + PURF
Capacity (L/cu.ft)	338/11.93	408/14.40	588/20.76	728/25.7	838/29.59
NT./GT.(kg)	296/308.5	235.5/278	283/345.5	316/392	310/383.5
Exterior size(W*D*H) (mm)	854×1072×1907	891*992*1945.5	891*1155*1994.5	1248*975*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

Package size(W*D*H)(mm)	950*1084*2080	954*955* 2094	970*1138*2185	1320*970*2185	1262*1098*2185
Shipping CBM	2.14	2.09	2.52	2.95	3.22
20GP/40GP/40HQ	12/24/2024	12/24/2024	12/24/2024	8/18/2018	8/18/2018
Racks	12(4X4)	16(5X4,4X4)	16(5X5)	18(5x4)+6(6x4)	24(5X5)
Boxes (2 Inches)	192	288	400	504	600
Samples(2ml)	19200	28800	40000	50400	60000
High/low temperature	Y	Y	Y	Y	Y
Power failure	Y	Y	Y	Y	Y
Abnormal voltage	Y	Y	Y	Y	Y
Sensor error	Y	Y	Y	Y	Y
Filter screen check	Y	Y	Y	Y	Y
Thermostat failure	Y	Y	Y	Y	Y
Low battery	Y	Y	Y	Y	Y
Condenser clean	Y	Y	Y	Y	Y
High ambient temperature	Y	Y	Y	Y	Y
Door ajar	Y	Y	Y	Y	Y
Power failure backup	72h	72h	72h	72h	72h
Castor	Y	Y	Y	Y	Y
Compartment/door Qty	4/2	4/2	4/2	4/2	4/2
Access port QTY/diameter	1/25MM	1/25MM	1/25MM	1/25MM	1/25MM
USB port	Y	Y	Y	Y	Y
RS485 interface	Optional	Optional	Optional	Optional	Optional
LN2/CO2 backup system	Optional	Optional	Optional	Optional	Optional
Chart recorder	Optional	Optional	Optional	Optional	Optional
Data logger	Optional	Optional	Optional	Optional	Optional
Remote alarm port	Y	Y	Y	Y	Y

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