

Ultra-Low Temperature Chest FreezersMDF-594



SANYO Ultra-Low Temperature Chest Freezer lineups for ultra-low temperature storage needs to support the forefront of life science researches.



6°C Ultra-Low Temperature Chest Freezers

Advanced Features

Specially designed compressor and cascade refrigeration system

Specially designed for rugged ultra-low temperature applications in a laboratory environment (HFC refrigerants only).



Integrated Cabinet Design

High-performance refrigeration system with foamed-in-place cabinet insulation maximizes interior temperature uniformity and protects against fluctuating ambient temperatures.

Hot line for secure sealing

Moisture condensation at the top edges of the cabinet due to differences in temperature inside and out causes frost and icing problems that may reduce heat insulation efficiency and obstruct door movements. These problems are prevented by the "hot line" by means of which hot gas from the higher temperature circuit is circulated through the problem areas.

Self-diagnostic function

The temperature sensor, filter sensor and cascade sensor monitor operation conditions continuously. Should abnormality be picked up, an error code and the current temperature will be displayed in turn.

Ring back function

The alarm buzzer can be silenced by pressing the BUZZER key on the control panel. (The remote alarm signal is not cancelled.) Should the alarm condition continue after a certain suspension, the alarm buzzer sound will resume.

Easy Maintenance

Standard casters and levelling feet

Standard-equipped heavy duty casters make it easy to move a freezer when necessary. The levelling feet keep a freezer level and firm on the floor.

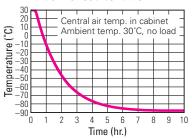
Safety Device

Built-In Temperature & Power Failure Alarms (Lamp/Buzzer)

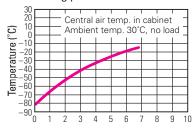
In case of power failure or an irregular rise in temperature, a rechargeable batteryoperated indicator lamp and alarm will be activated. A compact recording unit which automatically records the inside temperature, and a backup system with liquefied CO2 or N2 which is selfactivated when a power outage occurs are also available separately. This equipment helps insure that the contents will be protected in the event of any power failure or mechanical trouble.

Performance Data

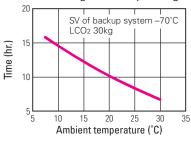
Pull-down characteristics under no-load condition



Pull-up characteristics during power failure



Effect of ambient temp. on holding time of liquefied gas



agn the problem areas.			
Specifications			MDF-594
Tem perature Range			−20°C to −86°C
			2010 x 770 x 1070 (mm)
Exterior Dimensions (W x D x H)		ions (W X D X H)	79.1 x 30.3 x 42.1 (inch)
Interior Dimensions (W x D x H)			1,280 x 500 x 762 (mm)
			50.4 x 19.7 x 30.0 (inch)
Effective Capacity			487 liters (17.1 cu.ft.)
Exterior Cabinet			Galvanised steel with baked on finish
Interior Cabinet			Stainless steel
Inner Lid			3
Insulation			Foamed-in-place rigid polyurethane
Comp	ressor	High stage side	Hermetic type, 1,100 W
		Low stage side	Hermetic type, 1,100 W
Evan	orator	High stage side	Cascade condenser
		Low stage side	Tube on sheet (shared with interior)
Condenser		High stage side	Fin and tube type
		Low stage side	Cascade condenser
Temperature Control			Microprocessor: Keypad input
		ntroi	Set value memory: non-volatile memory
Temperature Display			Digital display
Sensor			Platinum resistance (Pt. 100 W)
Safety			Cylinder key on the lid handle
			Selectable high temp. alarm (+10°C & +15°C from set point)
Alarm system			
			Power failure alarm, Remote alarm contact
Net Weight (Approx.)			291kg (642 lbs.) — 594
Voltage specification by destination			Model No.
Representative destination	Europe	230V, 50Hz (CE)	MDF-594-PE/594AT-PE
	Korea	220V, 60Hz	MDF-594-PK
de de	Thailand	220V, 50Hz	MDF-594-PB/594AT-PB

ATN: LN₂ backup system, temperature recorder AT: LCO₂ backup system, temperature recorder

Panasonic Healthcare Co., Ltd., Biomedical Business Unit is

Quality management system: ISO9001 Medical devices quality management system: ISO13485







Panasonic Healthcare Co., Ltd., Biomedical Business Unit is certified for:

Environmental management system: ISO14001

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