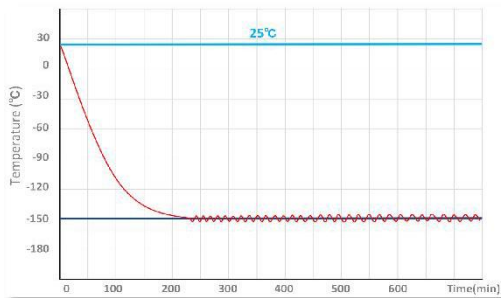




-150°C Cryo-freezer provides a safe, convenient and economical alternative long term storage solution for customers. Cryopreservation refers to the storage of a living organism, cells or tissue at ultra-low temperature such that it can be restored to the same viable state as before it was frozen. Storage for an indefinite amount of time requires samples to be maintained below the glass transition temperature of aqueous solutions, approximately -130°C, the temperature at which frozen water no longer sublimates and recrystallizes.

World-leading refrigeration technology



Pull down times @ ambient 25°C, no load



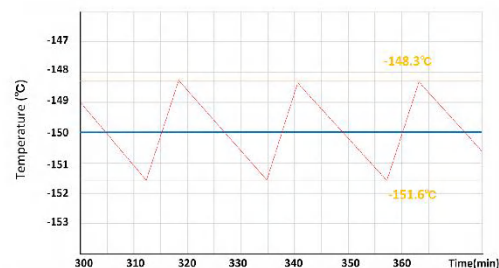
Super-cooling Technology

Unique refrigeration technology, super fast cooling to -150°C in only 231 minutes (@ambient 25°C 220V/50Hz).



Super-stable Fluctuation

Precise temperature control provides stable temperature fluctuation between -148.3°C and -151.6°C in the chamber.



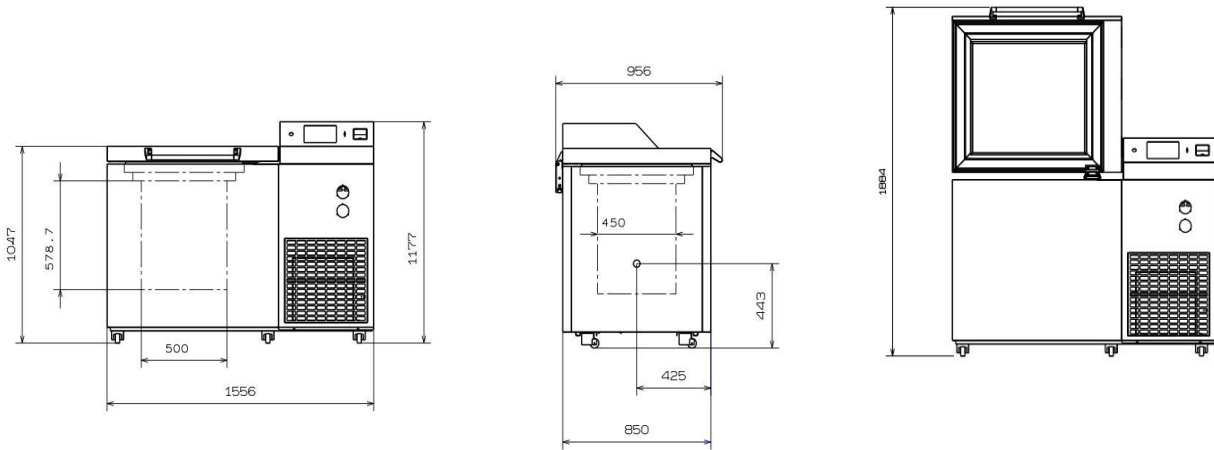
Chamber temperature fluctuation @ ambient 25°C, no load



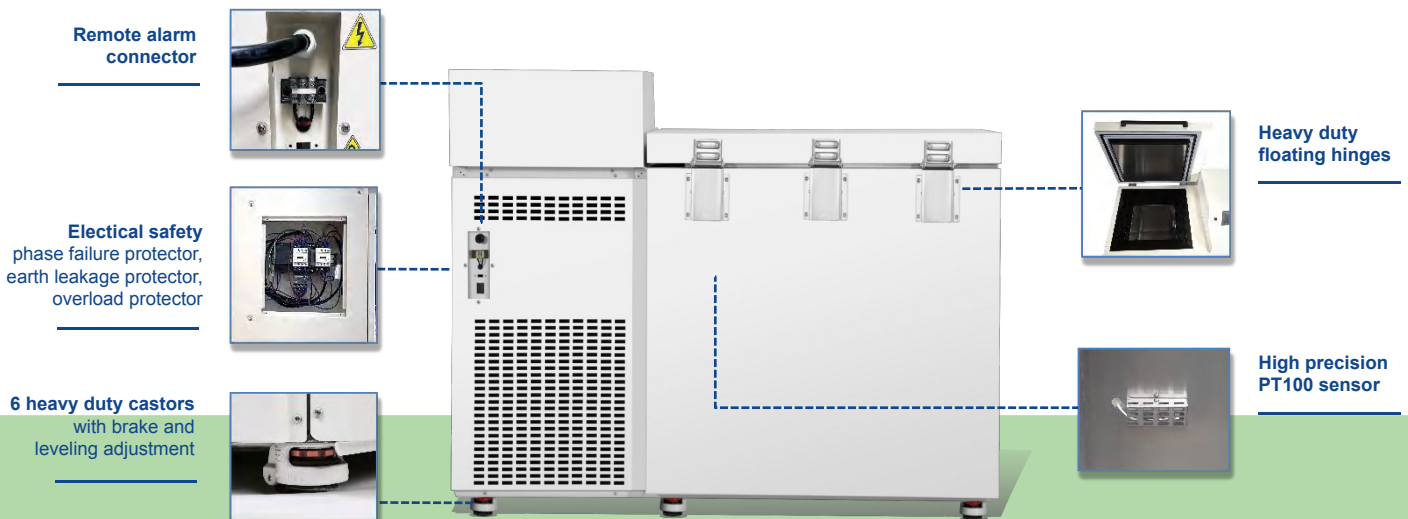
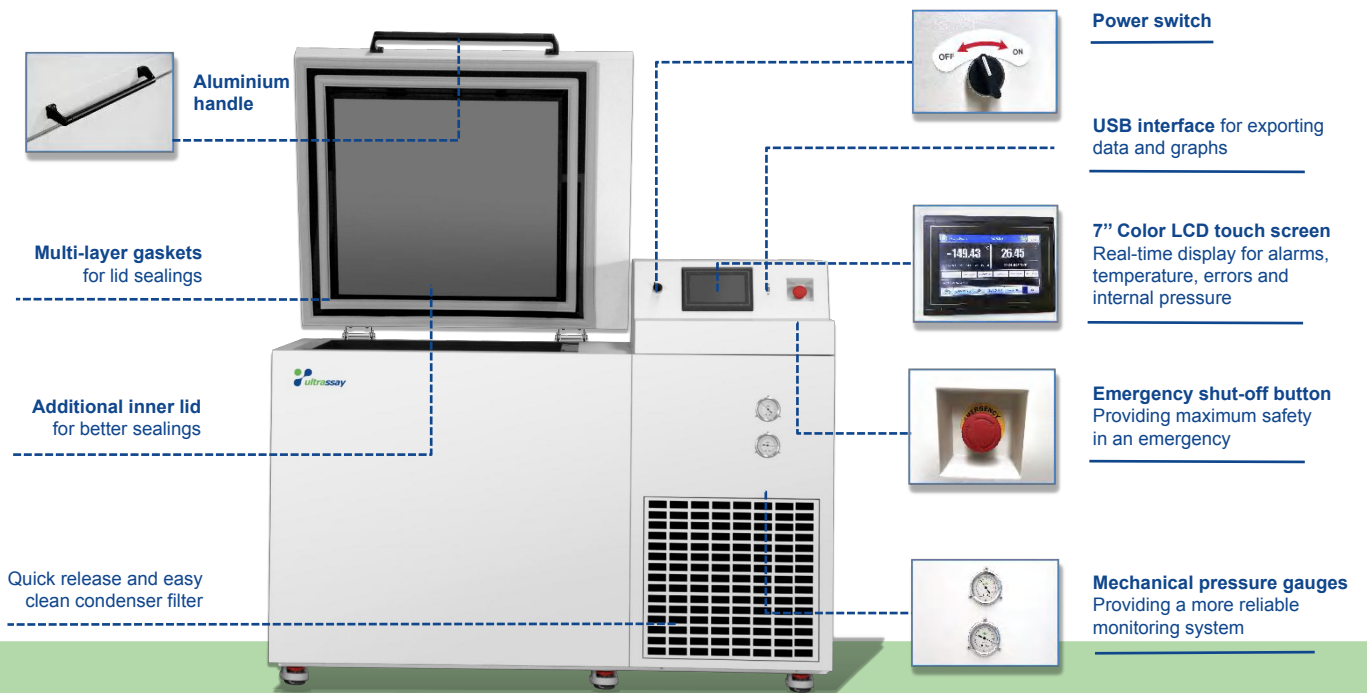
Excellent Insulations & Sealings

CFC-free high density foaming insulation with 200mm thickness and additional 40mm inner lid minimize the cold loss effectively and lock the cold air inside.

Dimension



Product Structure



Feature



Color LCD touch screen

Real-time display and temperature graphs



7 types of alarms

Audible and visual alarms



Ultimate electrical safety

Ensuring safer operation for users



Reliable monitoring system

Real-time monitoring for protecting your samples



Saving the earth

Efficient cooling system with CFC-free refrigerant but without flammable components



Specification

Performance		Refrigeration System		Alarms	
Cooling method	Direct Cooling	Refrigerant	R4001 (mixed gas)	High/Low temp.	Y
Defrost	Manual	Temp. controller	Microprocessor	Power failure	Y
Temp. range	-40°C ~ -150°C	System	Auto-cascade	Abnormal voltage	Y
Ambient temp.	10°C ~ 30°C	Sensor	PT100	Sensor error	Y
Display	LCD touch screen	Compressor brand	TECUMSEH	Door ajar	N/A
Access port qty/dia.	1/25mm	Capacity (L/cu.ft)	128/4.5	Filter screen check	Y
USB interface	Yes/1	Insulation	PURF	Thermostat failure	Y
Remote alarm access	RS232/485	Internal material	Foamed SUS304	Low battery	N/A
Outside material	Color sprayed steel	Racks	18	Condenser clean	Y
Inside material	SUS304	Boxes (2 inches)	90	High ambient temperature	Y
Castor	Universal	Samples (2ml)	9000	Power failure backup	72h

Electrical Data		Dimension		Others	
Power supply	220V, 50Hz	Package size	1637x970x1383mm	Racks & Box	Optional
Power rate	2550W	Exterior size	1560x957x1178mm	Data logger	Optional
Current	14.2A	Interior size	500x450x578mm	CO2 backup system	N/A
Power consumption	38kWh/24h	Shipping CBM	2.42	LN2 backup system	Optional
Noise	50dB	N.W./G.W.	303/332	Gloves	Optional

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