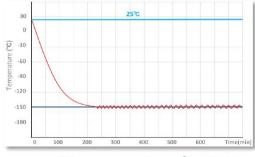
MDF-150H128

## -150 °C Cryogenic Chest Freezer





#### World-leading refrigeration technology



Pull down times @ ambient 25°C, no load



#### **Super-stable Fluctuation**

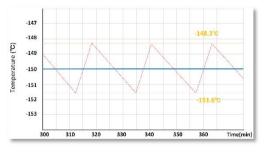
Precise temperature control provides stable templerature fluctuation between -148.3 °C and -151.6 °C in the chamber.



longer sublimes and recrystallizes.

## Super-cooling Technology

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



#### Chamber temperature fluctuation @ ambient 25°C, no load

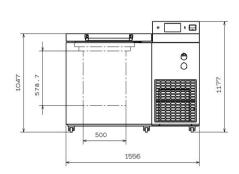




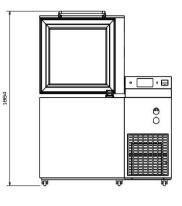
## **Excellent Insulations & Sealings**

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

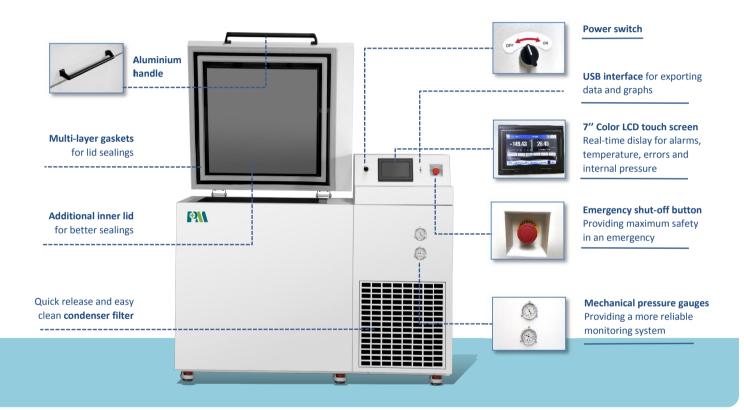
## DIMENSIONS







# **PRODUCT STRUCTURE**



**Remote alarm** conector



## **FEATURERS**



**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 refrigerarant but without flammable components



# **SPECIFICATIONS**

Basic		Refrigeration System		Alarms	
Cooling type	Direct Cooling	Refrigerant	R4001(mxed gas)	High/low temperature	Y
Defrost	Manual	Temp. controller	Microprocessor	Power failure	N/A
Temperature range	-40°C∼-150°C	System	Auto-cascade	Abnormal voltage	Y
Ambient temperature	10~30°C	Sensor	PT100	Sensor error	Y
Display	LCD touch screen	Compressor brand/QTY	TECUMSEH/1	Door ajar	N/A
Access port QTY/Dia.	1/25mm	Capacity(L/cu.ft)	128/4.5	Filter screen check	Y
USB Intereface	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
Ins <mark>ide material</mark>	SUS304	Boxes (2 Inches)	90	High ambient temperature	Y
Castor	Universal	Samples(2ml)	9000	Power failure backup (alarm)	72h

Electrical Data		Dimensions		Accessories	
Voltage frequency(V/Hz)	220V/50Hz	Package size(W*D*H)(mm)	1637*970*1383	Racks&box	Optional
Power(W)	2550W	Exterior size(W <sup>*</sup> D <sup>*</sup> H)(mm)	1560*957*1178	Data logger	Optional
Current(A)	14.2A	Interior size(W*D*H)(mm)	500*450*578	CO2 back up system	N/A
Power consumption	38kWh/24h	Shipping CBM	2.42	LN2 back up system	Optional
Noise(db)	50	N.W/G.W(kg)	303/332	Gloves	Optional

