

## 110 Litre -86°C Ultra Low Temperature Freezer

**Product Code: MDULF-11086**

This 110 Litre MDULF model is one of the most advanced and secure ultra-low temperature freezers for the storage of your invaluable samples.

LabCare+ 110 litre -86°C Ultra Low Temperature Freezers satisfy the demand for the safe, long-term storage of highly-valued materials and samples.

Dedicated refrigeration system with natural cooling gas HC, biodegradable is combined with an optional liquid CO<sub>2</sub> backup system, provide a critical level of protection that is unmatched in the marketplace.

The LabCare+ ULT freezer reliably maintains a stable, set temperature down to -86°C.



### Features

#### **DIGITAL CONTROLLER**

5" Graphic LCD touchscreen. Providing easy programming and greater accuracy of temperature control.

#### **TEMPERATURE**

Temperature control range from -40°C to -86°C with datalogger and USB data download port.

#### **SAFETY**

Maximum protection thanks with visual and acoustic alarm signals, used in case of power failure, temperature deviations, probe failure, open door after 10-60 seconds, low battery or filter saturation.

#### **100% TESTED**

All condenser units are tested in helium chambers to check for refrigerant leaks.

#### **REFRIGERATION**

Natural cooling gas HC, biodegradable.

#### **INSULATION**

120mm, high quality, CFC-free, VIP (Vacuum Insulation Panel) insulation. Solid door with lock and 4 inner doors to help maintain cabinet temperature during openings.

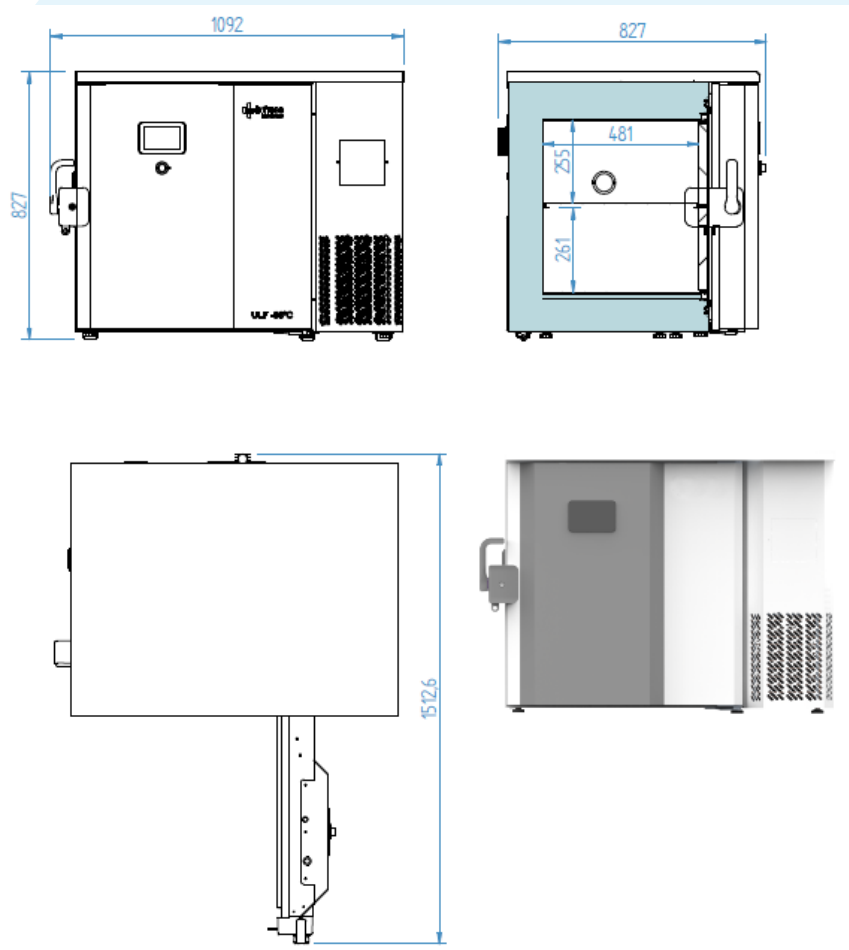
#### **CERTIFIED**

AENOR audited and certified by internationally recognised firm. ISO 9007:2015 (Quality); ISO 14001:2015 (Environmental); OSHAS18001:2007 (Prevention and Worker Safety).

## Specifications

Core Elements	
Operating Temperature (°C)	-40 / -86
Net Capacity	110
External Dimensions; W x D x H (mm)	1092 x 783 x 820
Internal Dimensions; W x D x H (mm)	490 x 481 x 530
Door Opening; W x H (mm)	517 x 527
Cabinet Construction	
Exterior Material	Powder coated, galvanised steel
Interior Material	AISI 304 stainless steel
Interior Construction	<ul style="list-style-type: none"> <li>- Internal structure made of stainless steel, AISI 304</li> <li>- Pressed inner guides, rounded interior corners</li> <li>- 3 access ports</li> </ul>
Insulation	Polyurethane with high density 40Kg / m <sup>3</sup> , CFCs free, zero ODP and low GWP
Insulation Thickness (mm)	120 + VIP
Features	
Doors	Outer 1 / Inner 2
Door Construction	<ul style="list-style-type: none"> <li>- Solid hinged door with integrated handle, key lock and front document holder</li> <li>- Single-handed operation</li> <li>- Easy to replace double door gasket</li> <li>- Door open sensor</li> </ul>
Door Lock	✓
Door Frame Heater	✓
Shelving	1
Compartments	2
Shelf Dimensions; W x D (mm)	474 x 470
Shelves/Drawers Material	AISI 304 stainless steel
Feet	Adjustable feet with lockable castors
System	
Digital Plus Controller	<ul style="list-style-type: none"> <li>- Temperature range -40°C / -86°C</li> <li>- PT1000 temperature probe with precision of 0.1°C on the display</li> <li>- Audible and visual warning functions in case of:               <ul style="list-style-type: none"> <li>Maximum and minimum temperature deviation</li> <li>Power failure, Probe failure, Open door</li> </ul> </li> <li>- Volt-free contact</li> <li>- USB port</li> <li>- RS485 remote control interface port</li> <li>- Datalogger (historical alarms and temperatures)</li> </ul>
Back Up Battery	48 hours
Defrost	Manual
Condensation	Forced air
Evaporation	Forced air evaporator with anti-corrosion epoxy coating

Technical Features	
Refrigerant	R600a / R1150
Power Supply	230V / 50 Hz
Refrigeration Capacity (W)	723
Power Consumption (kWh/24h)	7.30
Nose Level (dB)	48
Dimensions	



### Accessories

- Electrical connection 230 V / 1 ph / 60 Hz
- Electrical connection 115 V / 1 ph / 60 Hz
- Special plugs available
- 5 Inner doors / 4 shelves
- Temperature chart recorder
- Bluetooth datalogger
- WiFi datalogger
- CO<sub>2</sub> backup
- Side Access rack 50/75/100mm
- Sliding rack 50/75/100mm
- Cryogenic gloves

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