

To protect life with bio-science



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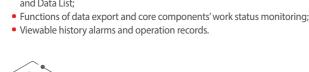


# Smart storage within your reach super-large touch panel



• Convenient sample operation: editable sample property, management of sample stock-in/stock-out, sample transfer, sample management, etc.; Function of intelligent sample statistics, information such as sample stock-in-/stock-out, sample qty and type can be summarized and processed.





#### • Viewable history alarms and operation records.

**RECORD** 

- **SETTING**
- Users can modify running parameters by inputting password after ID verifica-

• Chamber temperature and ambient temperature can be viewed in Data Graph

• One-key to restore factory setting with password.



#### **SMART GUARD**

• Available role presetting in the system gives equipment administrator and sample operator different access, effectively ensuring the sample safety.

# DIAGNOSE

- Visualized data and work status information replace traditional alarm information code to display the running status of core components more visually; Component alert indicators facilitate maintenance, effectively improve
- operation safety and prolong equipment service life.





#### Double-cooling

90°C dual cooling system

- ULT freezers equipped with brand new dual-cooling system are specially designed for sample preservation. In case of dual-cooling system operation, chamber can even reach -90°C; while in case of single cooling system operation,
- Original import compressor plus auto-cascade cooling system with mixed refrigerants provides stable -90°C
- temperature cycle and improves pull-down by 35%; Significantly improved bioactivity and safety in case of



# Sealed chamber design

Double protection & safe preservation -

• Quadruple-pane door gaskets are distributed on different planes to form a vacuum protection area to prevent cold air loss; wholly foamed inner door with thickness≥30mm to reduce frost growth.





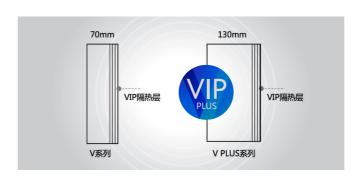
# Safety design

- Dual cooling system design enables stable -80°C(MDF-U590VX: -75°C) to ensure sample safety, despite one cooling system suffers an unexpected failure; Standard expansion tank to absorb system pressure in case of excessive
- pressure caused by extremely high ambient temperature or any other reasons, to maintain normal compressor operation and ensure sample safety;
- Core parameters protection with password to avoid losses caused by mis-oper-



# V.I.P plus

 Optimized vacuum insulation material (U-Vacua) plus PU foamed warm-keeping wall provides unprecedented insulation performance, significantly improves warm-keeping performance by 20%.



### User-friendly design

- Ergonomic latch plus optional padlock provides more user-friendliness. Standard electronic code lock is applicable for both card-swiping and fingerprint unlock;
- Finless condenser frees users from condenser filter cleaning;
- Controller with delay start function enables off-peak start for 0~30min, significantly reduces the load on electric circuit from simultaneous start-up.



#### Consumables layout

ULT Freezer	2ml cryo-tube			0.5ml cryo-tube			A
	Rack	Box capacity	Max. sample capacity	Rack	Box capacity	Max. sample capacity	Area
MDF-C590VX	32(1×12)	384	38400	32(1×18)	576	57600	1.9m²
MDF-U692VX	20(5×4)	400	40000	20(7×4)	560	56000	0.9m²
MDF-U792VX	24(5×4)	480	48000	24(7×4)	672	67200	0.95m²

