

Venchal Scientific 401 series Deep Freezers are ideal choice for effective sample storage.

Compact and Convenience



- This Ultra-low temperature freezer is designed with High-quality steel plate structure with phosphate coating Exterior and Stainless Steel 304 Interior and low noise design can create a comfortable environment..
- High-precision microprocessor digital temperature control system has the ability to set the temperature inside the cabinet in the range of -10°C ~-40°C.
- Audible & Visible Alarm Security System

• Refrigeration System

Environmentally friendly Freon-free refrigerant and high-efficiency enclosed single-compressor can guarantee fast cooling and are energy-saving and low noise.

Refrigerating circuit with proprietary intellectual property rights ensures high efficiency and stability;

Two-layer heat insulating foamed door and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way;

Cabinet are made from high-performance insulation material, improving thermal insulation performance to a large extent.

The CFC-free polyurethane foam technology and the thicker insulating layer can improve the effect of thermal insulation.

• Intelligent Temperature Controller

High-precision microprocessor temperature control system ensures an adjustable temperature within a range from -10°C to - 40°C inside the cabinet and platinum resistor temperature sensors ensure more precise temperature control.

- **Effective Energy Saving**

Effective power management system and Direct cooling design saves energy by more than 40%.

- **Security System**

Self diagnostic facility and security is processed through well developed alarm system with Audible & Visual alarms.

The turn-on delay and stopping interval protection function can ensure reliability in running.

High/low temperature alarm, power failure alarm, door ajar alarm, System failure, Main board communication error
High ambient temperature, Condenser cooling failure.

Startup delay and stop interval protection function to ensure reliable operation;

Keyboard lock and password protection function to prevent arbitrary adjustment of operating parameters

Safety door lock design, ensure sample storage is more secure.

- **Display**

The digital temperature display can show various parameters simultaneously, such as temperature inside the cabinet, power voltage and environmental temperature, indicating operating status clearly.

- **Construction and Design**

The arc angle-shaped single door frame and cabinet design makes its appearance more attractive.

Exterior is made of High-quality steel plate structure processed with phosphate coating and Stainless Steel 304 Interior are corrosion resistant.

Elegant and rotating door handle.

The two-layer heat insulating foamed door with air bag -typed outer seal and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way.

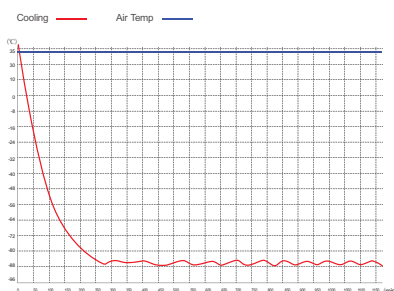
Inside chamber is equipped with 4 independent doors,

Two access port for temperature mapping

The door is equipped with a lock, improving security of sample storage.

Low noise design can create a comfortable work environment.

Cooling Performance :



Technical Specifications :

	Model No.	401-678	
Technical Data	Cabinet Type	Upright	
	Capacity (L)	678 L	
	Climate Class	N	
	Refrigerant	CFC/HCFC free	
	Cooling Method	Direct Cooling	
	Compressor	2 no	
	Noise(dB(A))	≤ 56	
Performance	Cooling Performance (°C)	-40°C	
	Temperature Range (°C)	-10°C ~ -40°C	
	Ambient Temperature (°C)	16°C ~ 32°C	
Control	Controller	Microprocessor Digital Controller	
	Display	Digital LED display	
Function	Access Test Port	3 no.	
	Alarm	Audible & Visible : High / Low Temp., Sensor Failure, High Ambient Temp. Condenser Overheating Failure, Low Battery, Power Failure, Built in Data logger USB Failure, System Failure, Main board communication Error	
Construction	External	Powder Coated Stainless Steel	
	Internal	Stainless Steel 304	
	Doors	Single Door	
	Shelves	3 Stainless Steel	
	Door Lock with Keys	YES	
	Insulation Thickness	130mm	
	Caster	4 units of Universal Caster wheels (2 Leveling feet)	
	Data Logging/Time/Quantity	USB/Record every 10 minute / 2 Years	
	Door with heater	Yes	
	Battery Backup	Yes	
	Capacity	Rack	Stainless Steel Freezer Rack, Inventory 2" Box 5x5x20 = 500 no's Inventory 2ml vials = 50000 no's, Plasma Bags of 200ml = 720 no's
	Electrical Data	Power Supply (V/Hz)	220 ~ 240 V / 50Hz
Rated Current (A)		8.37	
Dimensions	Internal Dimension (WxDxH)	750 x 696 x 1286 mm	
	External Dimension (WxDxH)	1088 x 1010 x 1965 mm	
	Packing Dimension (WxDxH)	1203 x 1155 x 2171 mm	
	Net Wt. / Gross Wt.	258/299 Kgs	
Standard	Accessories	USB Interface, RS 485, Remote Alarm	
Optional	Accessories	Printer, RS232, Chart Recorder	
Others	Certificate	CE, ISO9001 :2015	

Ordering Information :

Model No.	Description
401-678	-10°C to -40°C Ultra Low Deep Freezer, 678 Litres

* The model, parameters and performance specified in this brochure may be changed without prior notice because of product upgrading.

External Dimensions :

