



medical
systems

U701V

Ultra-Low Freezer



✓ INTENSIVE USE ✓ RELIABLE ✓ ENERGY EFFICIENT

Variable Speed Ultra-Low Temperature Freezer for the safe storage of specimens, samples, pharmaceuticals, blood and blood components at temperatures ranging from -86°C to -20°C.

Discover our brand new Variable Speed Ultra-Low Freezer U701V

Operating temperature range: -86°C to -20°C

Durable Design

- Stainless steel construction with an external antibacterial coating that ensures durability and hygiene
- Ergonomic door handle for seamless operations and durability
- Sturdy door hinges ensure a secure seal, preventing frost buildup
- Designed for tropical climates with ambient temperatures reaching as high as +43°C

Innovative Electronics

- 7" full touchscreen display with digital control and functionalities
- Access control using NFC card and password protection
- Advanced alarm system with audio and visual alarms
- Easy data export using a USB/SD card
- Bi-frequency operation (50/60 Hz)

Advanced Insulation Technology

- Innovative vacuum valves in the door permit faster openings
- Improved long-lasting VIP panels reduce temperature fluctuations
- Magnetic gasketed inner doors provide superior cabinet insulation

Reliable & Green Refrigeration System

- Bottom-mounted refrigeration system offers easy access and an optimised storage space
- Uses green refrigerants with zero Ozone Depletion Potential (ODP)
- Unique evaporator technology ensures an even cold air distribution and eliminates oil clogging

Versatile Modularity

- Optimised cryobox storage capacity
- Large choice of racks offering modularity for every need:

Cryo-Racks	Shelf No. - No. of Racks x Ref. No.
	1- 5 x 296.3626.34
	2- 5 x 296.3626.34
	3- 5 x 296.3626.31
	4- 5 x 296.3626.34

Total
Boxes
575

D-Racks	Shelf No. - No. of Racks x Ref. No.
	1- 5 x 296.3626.37
	2- 5 x 296.3626.36
	3- 5 x 296.3626.36
	4- 5 x 296.3626.37

Total
Boxes
550

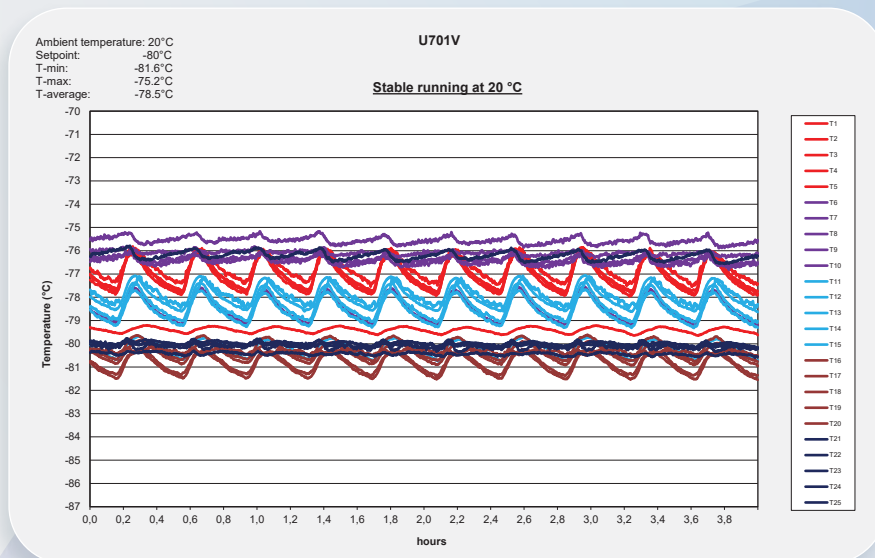


KEY PRODUCT FEATURES

The U701V Ultra-Low Freezer delivers, with its innovative technology, Superior Temperature Uniformity and Door Opening Recovery with Low Energy Consumption even during intensive use.

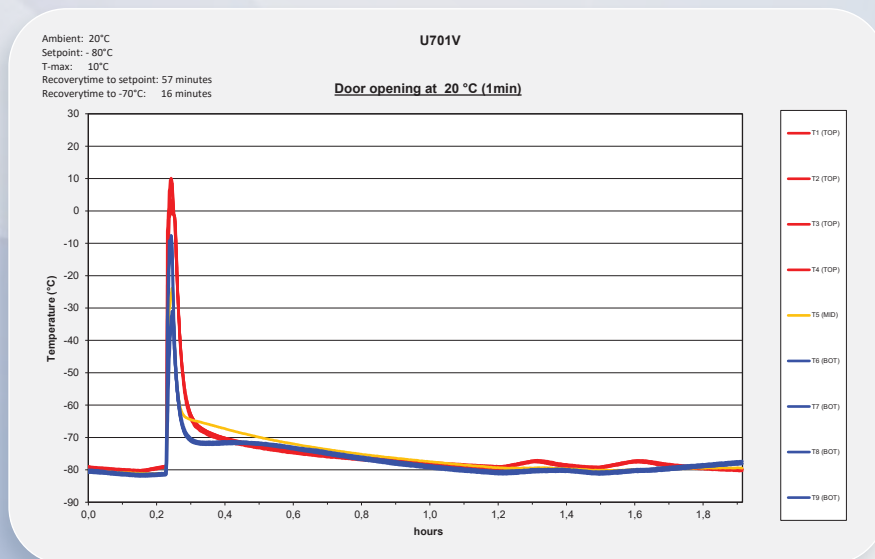
Temperature Uniformity & Stability

Superior temperature uniformity ensures even temperatures throughout the cabinet, maintaining sample integrity.



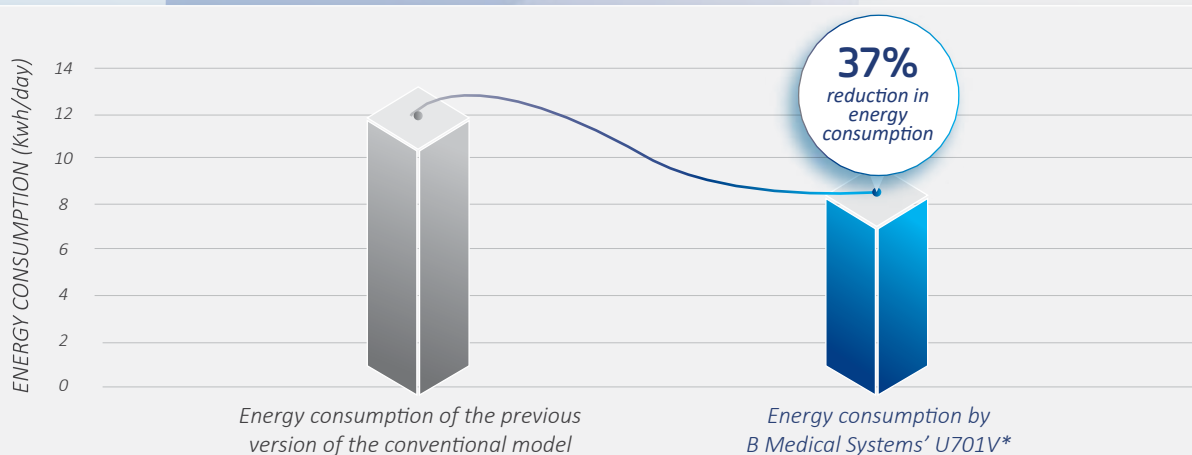
Door Opening Recovery

Rapid return to the set temperature even during intensive use, ensuring sample protection.



Energy Efficiency

High energy efficiency irrespective of the usage pattern, enabling operational efficiency.



*Measured at 20°C ambient temperature with a set point of -80°C

TECHNICAL DATA

Key Specifications

Gross / Net volume (L)	791/751 L
Cryobox capacity	575
Set temperature (preset)	-80°C
Temperature range	-86°C to -20°C
Preset cold / warm alarm limit	-85°C -75°C
Climate class (ambient temperature range)	SN/T (+10°C to +43°C)
Defrosting technique	Manual
Refrigerant type	R290 / R170
External dimensions H x W x D (mm)	1988 x 992 x 1039 mm
Inner dimensions H x W x D (mm)	1375 x 740 x 738 mm
Net weight (kg)	298 kg
Supply voltage (V)	220V - 240V
Frequency (Hz)	50Hz - 60Hz
Power (W)	2000W
Energy consumption (kWh/24h) ¹	7.5 kWh/24h for -80°C 6.3 kWh/24h for -70°C
Hold over time (-80°C to -60°C) ¹	2.2 h
Heat ejection (Kcal/h)	309.54 Kcal/h
Warranty	5 years 7 years on compressor
VHP Sterilization - Optional	Compatible with Vaporized Hydrogen Peroxide (VHP) decontamination systems

Compliances

Medical Device Regulation	MDR (EU) 2017/745, Class IIa	
ISO 14644-1 ²	Class 4	
Certifications	ENERGY STAR® Certified	ACT Label

1. Tested at 20°C ambient temperature

2. Suitable for use in cleanrooms and fulfill the specifications of air cleanliness according to ISO 14644-1

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

B Medical Systems S.à r.l

B Medical Systems is a global manufacturer and distributor of medical-grade devices with over 40 years of industrial experience.

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