BioUltra UL570

GRAM
Biostorage you can depend on

BioUltra UL570 comes with 5 perforated stainless steel shelves.

The **BioUltra UL570** is an ultra low temperature freezer that operates safely at -86°C. Utilising high-capacity components, cascade refrigeration system, latest generation VIP-technology and insulated inner doors, the BioUltra is able to maintain safe and stable interior conditions when operating at -86°C.

Customisable layout allows users to adapt the cabinet to storage requirements, 5 stainless steel perforated shelves are included as standard.

BioUltra UL570 holds up to 384 2”/50 mm boxes, 192 3”/75 mm boxes or 192 4”/100 mm boxes.

IQ, OQ documentation for all BioUltra UL570 models are available for download on www.gram-bioline.com.

The BioUltra UL570 is available with right hinged door.
All BioUltra UL570 cabinets are equipped with insulated inner doors and 2 access ports.

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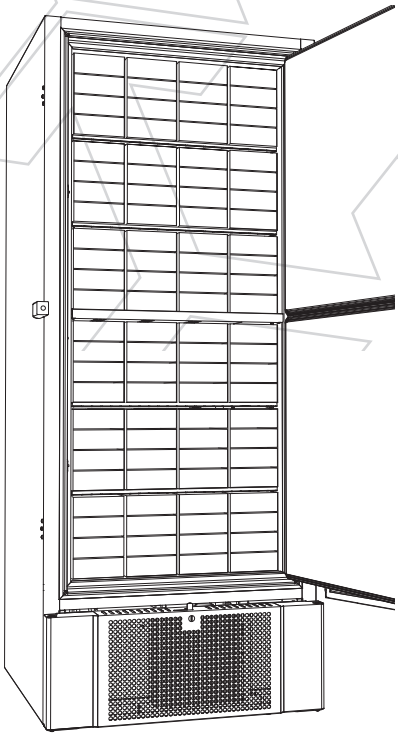
Insulated inner doors
Efficient inner doors ensure safe operation even with the outer door left ajar.
The two independently working inner doors ensure that items can be accessed with least possible affect on the items stored.
The inner doors are detachable for easy cleaning and defrosting.

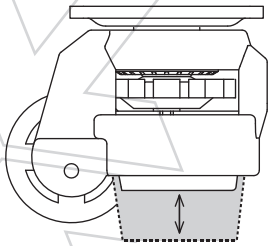
2 access ports
24.5 mm port for ease of access, e.g. sensors for external temperature surveillance.

E-sensor
Extra sensor for providing a temperature reference within the storage compartment.

Access to the cabinet
Ergonomically designed handle ensures ease of access to the cabinet interior.



Leveling castors
All BioUltra cabinets are equipped with multifunctional leveling castors. These allow for easy positioning, with the added stationary stability of legs once deployed.



CASCADE

The Gram BioLine cascade refrigeration system is specifically designed for ultra low temperature operation. Ensuring high efficiency, performance and durability. Additionally, an access panel makes for easy access to heat exchanger and dry filter.

Technical specifications	BioUltra UL570	
Temperature range	-60/-86 ºC	
Ambient temperature range	10/30 ºC	
Control Unit	Gram BioLine MPC 4.6, voltage-free contact, E-sensor, acoustic temperature alarms that can be programmed individually, alarm recording, hi/low temperature and calibration function	
Material exterior Material interior	Lacquered steel or stainless steel Lacquered steel or stainless steel, inside of doors and bottom panel in stainless steel	
External dimensions mm (W x D x H)	856 x 948 x 1986/1996 (min./max. height)	
Net weight	Unpackaged net weight without optional fittings: 257 kg	
Gross volume	570 litres/20.1 cubic feet	
Modules for shelves	Adjustable with 12,5 mm increments 5 Stainless steel perforated shelves come as standard	
Rack capacity: 2”/50mm boxes	384 boxes (using 4x4 racks)	38.400 vials (using 4x4 racks)
Rack capacity: 3”/75mm boxes	192 boxes (using 3x4 racks)	19.200 vials (using 3x4 racks)
Rack capacity: 4”/100mm boxes	192 boxes (using 2x4 racks)	19.200 vials (using 2x4 racks)
Insulation	70 mm (HFC free cyclopentane), vacuum insulated panels	
Refrigerant	Stage 1: R404A / Stage 2: R508B and R601	
Sensors used	PT-10.000	
CO_2e	R404A: 844 / R508B: 4199	
Base	Levelling castors	
Connection	230 V, 50 Hz, 16 Amp	
Energy consumption*	13,5 kWh/24h	
Noise level	49 dB(A)	
Refrigeration system	Static - Cascade refrigeration system	

** Measured with empty cabinet, setpoint of -80°C with an ambient temperature of +20°C*