



UPRIGHT FREEZERS “GR -86” FOR ADJUSTABLE TEMPERATURES FROM -40°C TO -86°C. CAPACITY: 400 / 750 LITERS

NEW

FEATURES

DIGITAL CONTROL. Greater precision in temperature control. Easier to adjust the temperature range we want to achieve.

Digital touch screen, positioned at a visible level.

COMPRESSORS. Double compressor system with low noise level. In case of failure of one of them, the other is capable of maintaining inner temperature at -70°C.

100% TESTED. All condensing units are 100% tested, in a Helium chamber for possible leaks detection and elimination.

TEMPERATURE. Temperature range from -40°C to -86°C, graphical representation and USB to facilitate data collection.

ALARMS. Maximum protection thanks to visual and audible alarms due to power failure, temperature drop or rise, probe failure, door open, filter saturation and discharged battery.

CONTROL PANEL

Working temperature from -40°C to -86°C.

3.5" touch screen with graphical representation of temperatures, as well as possible safety notices.

Product temperature stability range of approx. $\pm 1^\circ\text{C}$.

Temperature uniformity range lower than $\pm 2^\circ\text{C}$.

PT100 temperature probe with 0.1°C accuracy.

Different types of optical and acoustic alarms: temperature fall or rise, power failure, probe failure, door open, filter saturation and discharged battery.

Remote alarm signal (potential free contact).

RS485 Modbus communication port.

USB output.

Datalogger – history of alarms, door openings and temperatures. Battery.

Control system protected by a numeric password

TECHNICAL FEATURES

EXTERIOR

External body in galvanized steel epoxy painted in white/grey.

Four wheels with height adjustable feet.

INTERIOR

Inner body in stainless steel.

Four stainless steel inner doors.

DOOR

Solid lockable door.

Handle with integrated lock, convenient for one-handed use.

Double gasket easily replaceable.

Door sensor.

Folding door.

Front document holder.

Blind door with lock and four inner doors to prevent cold losses.

ISOLATION

VIP panels (vacuum injected) to improve insulation on sides and door.

120mm water-based polyurethane insulation, injected at high pressure with CFC's at 40 Kg/m³ density.

Zero ODP and low GWP

ELECTRICITY

Electrical connection: 230V / 1 pH / 50Hz

2,5m connection cable with Schuko plug.



SHELVES

Three stainless steel shelves and four levels available for storage.

Capacity for 12 racks in 400 L model and 24 racks in 700 L model.

Box Size	400L Model	700 Model
	Box Capacity	
50 mm	240	480
75 mm	144	288
100 mm	120	240

REFRIGERATION

Double circuit cooling system with two independent compressors. In case of failure of one of them, the other is able to maintain the internal temperature at -70°C.

Hermetically sealed and low noise compressors.

Ventilated condensation system.

Static evaporation system.

Climate class 4 (30°C, 55HR).

Natural refrigerant HC gas, biodegradable, free of CFCs and HCFS.

Air filter for condenser on the lower front, washable, easy to remove

OPTIONAL EQUIPMENT

CO ₂ Back-uo	Code: 2101292
Temperature chart recorder	Code: 2101293(*)
Wifi Datalogger	Code: 2101294
Bluetooth Datalogger	Code: 2101295
5 inner doors / 4 Shelves Option	Order as variant 5 PUERTAS(*)

(*) **Must be installed at factory**

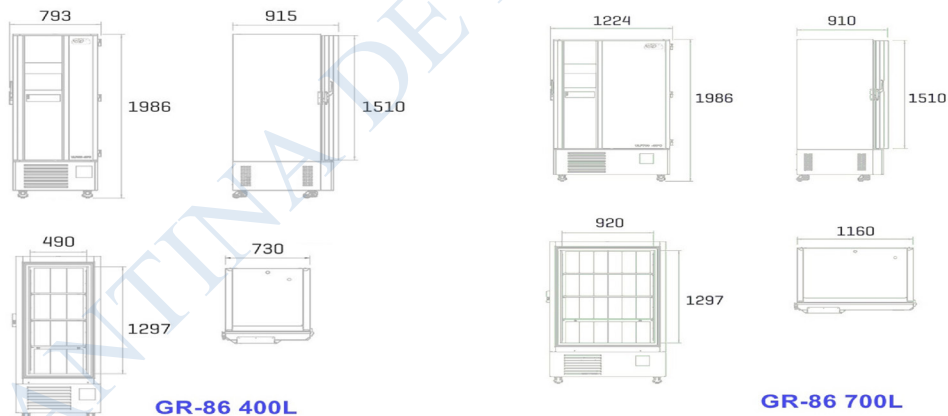


ACCESORIES

Side acces Rack for 20 (5x4) boxes of 50	Code: 1001868
Side acces Rack for 16 (4x4) boxes of 50	Code: 1001869(**)
Side acces Rack for 16 (4x4) boxes of 75	Code: 1001870
Side acces Rack for 8 (2x4) boxes of 100	Code: 1001871(**)
Side acces Rack for 12 (3x4) boxes of 100	Code: 1001872
Sliding Rack for 20 (5x4) boxes of 50	Code: 1001873
Slicing Rack for 16 (4x4) boxes of 50	Code: 1001874(**)
Cruogenic Gloves	Code: 2101296

(**) **Racks for 5 doors / 4 shelves option**

SCHEMATIC DIAGRAM



Code	Temperature Range	Capacity Liters	Power (W)	Height / Width / Depth (Internal) cm	Height / Width / Depth (External) cm	Number of Shelves	Number of Levels	Weight (Kg)
2101290	-40°C / -86°C	750	2789	130 x 92 x 62	199 x 127 x 98	3	4	311
2101297	-40°C / -86°C	400	1896	130 x 49 x 62	199 x 85 x 98	3	4	244

Voltage versions at 230V / 1pH / 60Hz or 115V / 1pH / 60Hz available on demand



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