Ultra-low Temperature Freezers GR -86

FOR TEMPERATURES ADJUSTABLE FROM -40°C TO -86°C.
CAPACITY: 125 / 402 / 570 / 754 / 836 LITERS; SILENT > 48 DB
ECO-FRIENDLY REFRIGERANT.

NEW

FEATURES

Operating temperature: -40°C to -86°C.
DIGITAL CONTROL. Highly precise temperature control. Easy adjustment of your desired temperature range.
TOUCHSCREEN DISPLAY. A clear, visible touchscreen display for user-friendly operation.
COMPRESSORS. Dual compressor system with low noise levels (<48 dB) for all capacities. In case of failure of one compressor, the other can maintain the internal temperature at -70°C.
100% TESTED. All condensing units are 100% tested in a helium chamber to detect and eliminate any potential leaks.
TEMPERATURE. Temperature range from -40°C to -86°C, with graphical representation and USB port for easy data collection.
ALARMS. Maximum protection with visual and audible alarms for power failure, temperature rise or fall, probe failure, open door, filter saturation, and low battery.
HEATED SILICONE GASKET.

CONTROL PANEL

3.5" touchscreen display with graphical temperature representation and safety alerts.
Product temperature stability: ±1°C. Temperature uniformity: < ±2°C.
PT100 temperature probe with 0.1°C accuracy.
Various visual and audible alarms: temperature rise/fall, power failure, probe failure, door open, filter saturation, low battery.
Remote alarm signal (potential-free contact). RS485 Modbus communication port.
USB output. Ethernet adapter support (MySirius, etc.).
Datalogger - records alarms, door openings, and temperatures.
Battery. Password-protected control system.
Ethernet and internet connection with + (Syrius)

TECHNICAL SPECIFICATIONS

EXTERIOR

Galvanized steel body with white/grey plastic coating.
4 wheels with adjustable height feet.

INTERIOR

Stainless steel interior.
4 stainless steel inner doors. 3 feedthroughs.

DOOR

Solid door with lock – thermal door gasket.
Handle with integrated lock, comfortable for one-handed operation. Easily replaceable double gasket. (Rear exterior in stainless steel)
Door sensor.
Hinged.
Front document holder.
Solid door with lock and 4 inner doors to prevent cold loss.

INSULATION

VIP (vacuum insulated panels) for improved side and door insulation.
120mm water-based polyurethane insulation, high-pressure injected CFC-free with a density of 40 kg/m³.

ELECTRICITY

Electrical connection: 230V / 50Hz
2.5m connection cable with Schuko plug.



SHELVES

3 stainless steel shelves and 4 available levels for storage.
Capacity for 6 racks for the 125 L model, 12 racks for the 402 L model, 16 racks for the 525 L model, and 24 racks for the 754 L model.

Size Box	Model 125L	Model 402L	Model 525 L	Model 754L	Model 836 L
	Box Capacity				
50 mm	72	252	336	504	588
75 mm	54	180	240	360	420
100mm	36	120	160	240	280

REFRIGERATION

Dual refrigeration circuit system with independent compressors. In case of failure of one system, the other maintains a temperature below -70°C. Hermetically sealed, low-noise compressors. Ventilated condensation system.
Static evaporation system. Climate class 4 (30°C, 55% RH).
Natural HC refrigerant, biodegradable, CFC-free and HCFC-free. Washable air filter for condenser on the lower front, easy to remove.

Code	Temperature Range	Capacity Liters	Power Consumtion(W)	LengthDepth/Height (Internal) mm	LengthDepth/Height (External) mm	Number Shelves	Number Levels	Weight (KG)
2101310	-40°C a -86°C	125	713	490 x 495 x 532	1042 x 780 x 790	1	2	110
2101297	-40°C a -86°C	402	1380	492 x 628 x 1302	846 x 953 x 1987	3	4	244
2101318	-40°C a -86°C	525	1480	642 x 628 x 1302	996 x 953 x 1987	3	4	253
2101290	-40°C a -86°C	754	1564	922 x 628 x 1302	1276 x 953 x 1987	3	4	311
2101325	-40°C a -86°C	836	1679	1022 x 628 x 1302	1376 x 953 x 1987	3	4	322