PRODUCT SPECIFICATION - ULT500eco

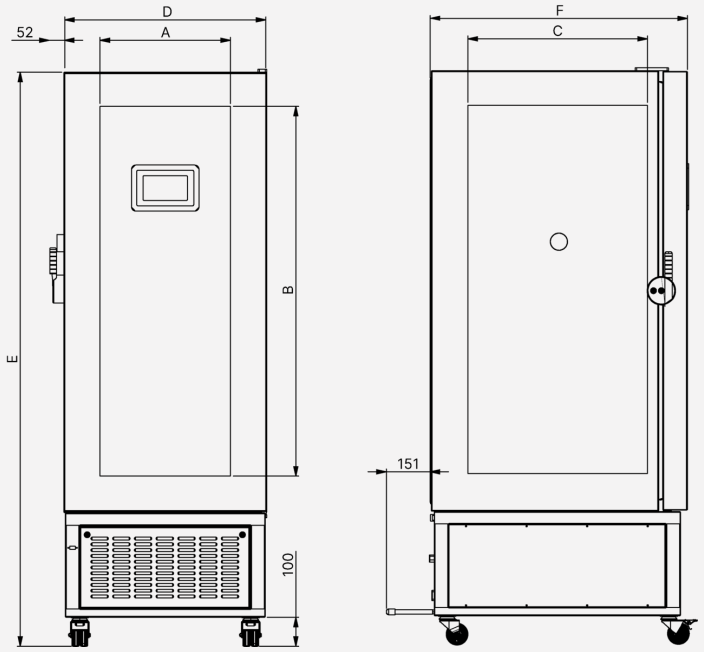
ULT-Freezer
ULT500eco

ULT Freezer – Maximum protection for samples that matter.

When it comes to ultra-low temperature storage, one factor is paramount: the reliable protection of your samples over extended periods of time. The Memmert ULT freezer has been developed specifically for this purpose. It combines consistent, precise temperature control with integrated safety features and energy-optimised design for continuous operation.

Key Performance Features

- Natural Refrigerants
- State-of-the-Art Safety Concept
- Remote-Monitoring
- Inverter-Controlled Compressors



Temperature

Setting temperature range	°C	-50 to -86
Setting accuracy	°C	0.1

Features

Control unit		7” touchscreen integrated in the outer door in ergonomic position
Adjustable parameters		Temperature
Interfaces		• Ethernet LAN • USB

Safety

Temperature monitoring		Temperature sensor Pt1000
Alarm		visual and acoustic
Behaviour during a power failure		Backup battery for alarming and monitoring during power failure

Heating concept

Cooling system		Cooling system with two cascade-connected inverter compressors for precise temperature control and high energy efficiency. Refrigerants: First stage R290 / Second stage R170. Air-cooled condenser.

Standard equipment

Door		Insulated stainless steel outer doors with mechanical door lock
Standard option		• Door-open detection • Entry port / pressure relief opening Ø 26 mm, lateral
Other standard accessories		Standard interior configuration with 4 compartments. Consisting of 2 stainless steel inner doors and 3 height-adjustable shelves for flexible adaptation to different load sizes.

Stainless steel interior

Volume	l	506
Width	mm	600
Height	mm	1345
Depth	mm	627
Max. loading of chamber	kg	360
Max. loading of grids/shelves	kg	180
Maximum quantity of 2'/50mm boxes	number	384

Textured stainless steel casing

Width	mm	850
Height	mm	2000
Depth	mm	888
Installation		on lockable castors

Packing/shipping data

Transportinformation			The appliances must be transported upright
Customs tariff number			8418 40 80
Country of origin			Netherlands
Packaging	Width	mm	1080
	Height	mm	2220
	Depth	mm	1080
Weight	Net	kg	343
	Gross	kg	430

Standard units are safety-approved and bear the test marks:

CE