



# ULTF 700

## ULT TECHNICAL SPECIFICATIONS



<b>Product Type</b>	ULT (230V)
<b>Color code handle / Color code housing</b>	RAL 9003 / RAL 9003
<b>MEASURES</b>	
<b>Interior volume [L]</b>	700
<b>Net weight of the unit (empty) [kg]</b>	289
<b>Permitted load [kg]</b>	200
<b>Permitted load of individual compartment (kg)</b>	50
<b>Wall clearance back [mm]</b>	100
<b>Wall clearance sideways [mm]</b>	250
<b>Mobility</b>	4 wheels, 2 w. lock
<b>INTERNAL DIMENSIONS</b>	
<b>Interior width [mm]</b>	890
<b>Interior height [mm]</b>	1300
<b>Interior depth [mm]</b>	605
<b>DOORS</b>	
<b>Inner doors</b>	2
<b>Unit doors</b>	1
<b>HOUSING DIMENSIONS NOT INCL. FITTINGS AND CONNECTIONS</b>	
<b>Width net [mm]</b>	1110
<b>Height net [mm]</b>	1966
<b>Depth net [mm]</b>	938
<b>PERFORMANCE DATA TEMPERATURE</b>	
<b>Temperature range [°C]</b>	-90...-40
<b>Temperature variation at -80 °C [± K]</b>	2.5
<b>Temperature fluctuation at -80 °C [± K]</b>	1.5
<b>Cooling down time (min) from 22 °C to -80 °C</b>	450
<b>Warm-up time during power failure from -80 °C / -122 °F to -60 °C / -76 °F [min]</b>	250
<b>ELECTRICAL DATA</b>	
<b>Rated Voltage [V]</b>	230
<b>Power frequency [Hz]</b>	50
<b>Nominal power [kW]</b>	1.6
<b>Unit fuse [A]</b>	10
<b>Power plug standard</b>	2m C13 CEE 7/7
<b>Phase (Nominal voltage)</b>	1~



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### ENVIRONMENT SPECIFIC DATA

Energy consumption at set-point -80 °C (kWh/24h)	8,1
Average heat dissipation at set-point (-80°C, Amb. 20°C)(W)	340
Sound-pressure level [dB(A)]	47

### LOAD-VARIANTS

Freezer racks per compartment	6
Cryoboxes, 50 mm	528

### FEATURES

Alarm system, batterybacked	standard
Foam filled compartmen door	standard
Battery back-up system CO2 (fully independent system)	option
Shipping pallet (extra specified pallet)	option (no additional article numbers; only on request)

### FIXTURES

Shelves included/max. no. of shelves	3/13
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### ACCESSORIES

5m power cable	C 13 BS 1363 British plug – 5023-0287
	C 13 CEE 7/7 European plug – 5023-0285
	C 13 type 13 Swiss plug – 5023-0286
Deicing kit consisting of de-icing tray, wiper and scraper	8012-1900
Grid shelf – For temperature range -40 °C to -60 °C, 3 provided in set, including shelf supports	8012-1904
Shelf, Incl. shelf supports, stainless steel	8012-1902
WLAN kit, wireless connection between ULT units and APT-COM4, LIMS or customer solution.	8012-2262

### STANDARDS & APPROVALS

Energy Star certified (3rd part)	yes
Machinery directive (EN ISO 12100, EN ISO 13732-3, EN60204-1)	yes
Applied voluntarily: EN61010-1, EN61010-2-11 (if wished, this could also be listed in the CE DoC)	yes
Electromagnetic Compability Directive 2014/30/EU (EN 61326-1)	yes
RoHS Directive (EN IEC 63000:2018)	yes
Compliant with DIN 13277	ULTs are validated referring to DIN DIN 12880; 2007-07

### LABORATORY TEST MEASUREMENTS

Pull down	450 min
Noise level	47dBA
Warm-up time by power failure	250 min
Temperature variation	2,5 K
Temperaturre flucturation	1,5 K
Energy consumption	8,1kW/24h



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BIOMEDICAL

### SELLING POINTS

Lowest energy consumption in its class	8,1
Environmentally-friendly refrigerants	R290/R170
Thermal insulation with unique long-life VIPs	vacuum insulation panels
Rust proof interior	Stainless steel 1.4016 grade
Individual safety concept	option
Temperature range [°C]	-90 °C to -40 °C
Compressor cooling	cascade
Innovative door gasket	reduce ice built-up
Detachable inner doors	stainless steel
Zero-voltage alarm contact	in-house alarm system
Internal data logger	USB read out
Ethernet interface	yes
Access ports	2x Ø28mm rear
Shipping pallet	without forklift
Packaging	Recyclable
Powder-coating	Solvent free

