

Datasheet

Features	
Lock	Yes
LED Light	No
Battery Backup for Controller, 48h	Yes
VIP (Vacuum Insulated Panel)	No
Perimeter Heater	No
Porthole	Yes - Ø 12,5mm
Dry Contact	Yes
Vacuum Valve	No
Door	Solid
Door Reversibility	N/A

Construction				
Outer Dimensions, HxWxD	831x920x608			
Inner Dimensions, HxWxD	624x760x440			
Weight Gross/Net, kg	80 / 63			
Material Inner Cabinet	Painted Steel			
Material Outer Cabinet	Painted Steel			
InsulationThickness, mm	80			
Insulation Type	Polyurethane with Cyclopentane			
Air Distribution	N/A			
Mobility	Standard: 4xCasters with brakes			
Refrigerant, Type / gram	Nature R2 / 90			
Variable Speed Compressor	No			
Internal Air Distribution	Static			
Number of Probes	1			

Controller & Alarms	
Controller	i-Care, Touch screen
Controller language	EN, DE, FR
USB Connection	Yes
Logging	Data, Alarms & Events
Temperature Graph	Yes
High/LowTemp. Alarm	Yes
Open Door Alarm	No
Probe Failure Alarm	Yes
Power Failure Alarm	Yes



-20°C -86°C



Biomedical ULT Freezer

Complexity made simple Info center







Storage	
Volume, Gross/net, L	198 / 189
Shelf	N/A
Cryobox "2 capacity	117
2 ml vials capacity	11.700
Inner lids	Yes

Performance & Operation					
Temperature Range, C°	-20 to -86				
Voltage, V	220				
Frequence, Hz	50				
Max Ambient, °C	25				
Max Humidity, °C	65				
Noise, dB	55				
Energy Consumption, kWh / 24h	5,9				
Instant Power Consumption	PD 0,370 / Stable 0,300				
Heat Rejection	375				
K-Value	0,2				
Defrost	Manual				



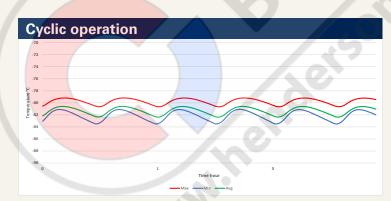
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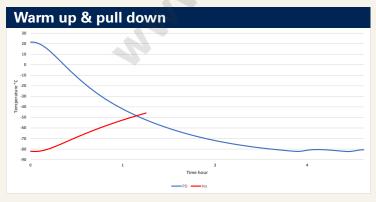
Temperature Mapping

Test overview	
Test type	10-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-82°C
Sensors used	25gr tinned brass formed as a cylinder with a diameter of 15,2mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	Nature R 2

Sensor position Front View Top View 1_3 5 2_4 6_8 10 7_9 6_8 7_9

Sensor te	mper	ature								
Sensor position	P1	P2	Р3	P4	P 5	P6	P 7	P 8	P9	P10
Max.	-81	-81,1	-81,1	-80,7	-79,2	-80,5	-81	-80,4	-80,8	-79,8
Avg.	-81,9	-82,1	-81,9	-81,6	-79,8	-81,1	-81,6	-81,1	-81,6	-80,6
Min.	-83,1	-83,5	-83	-82,9	-80,7	-82	-82,5	-82	-82,6	-81,7



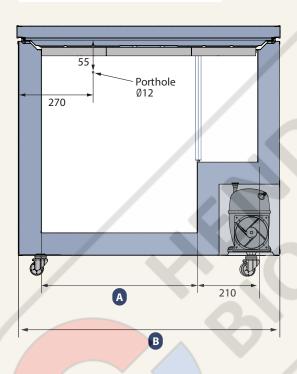


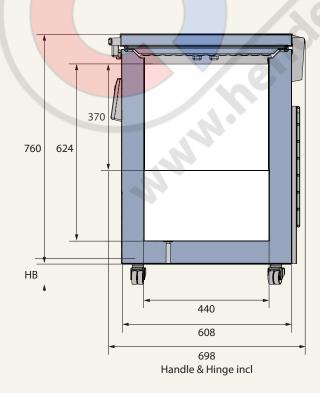
Typical performance data					
Avg. cabinet temperature	-81,3°C				
Uniformity	+/- 1,2°C				
Stability in avg.	0,9°C				
1 min. door open recovery to -75°C avg. temperature	<1 min.				
Cycle rate on/off	35 / 6 min.				
Duty cycle	81,6 %				
Energy consumption - Normal mode	5,99 kWh/day				
Energy consumption - Energy saving mode	4,83 kWh/day				
Pull down time to -75°C avg. temperature	180 min.				
Hold over time from -82°C to -60°C	63 min.				
Heat rejection	375 W				

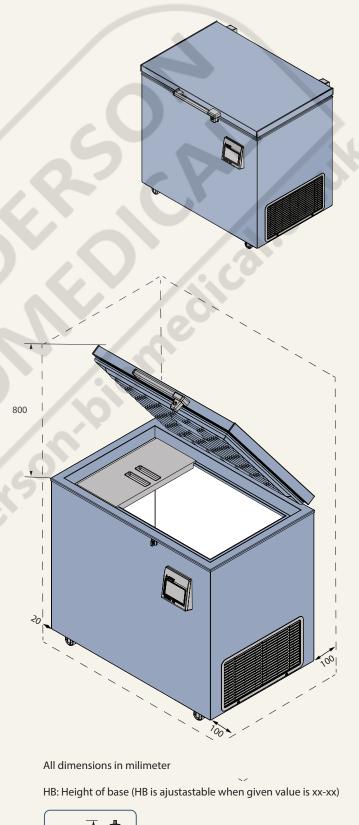


Dimensions

Model	Α	В
ULTF-C198i	550	920
ULTF-C296i	890	1260
ULTF-C383i	1190	1560











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