

## 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	831x1260x608		
Inner Dimensions, HxWxD	624×1100×440		
Weight Gross/Net, kg	100 / 78		
Material Inner Cabinet	Painted Steel		
Material Outer Cabinet Painted Ste			
Insulation Thickness, mm	80		
InsulationType	Polyurethane with Cyclopentane		
Air Distribution	N/A		
Mobility	Standard: 4xCasters with brakes		
Refrigerant, Type / gram	Nature R2 / 143		
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	296 / 284
Shelf	N/A
Cryobox "2 capacity	216
2 ml vials capacity	21.600
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	9,8				
Instant Power Consumption	PD 0,710 / Stable 0,520				
Heat Rejection	642				
K-Value	0,2				
Defrost	Manual				



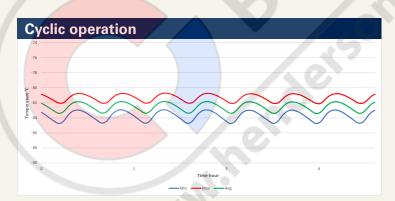


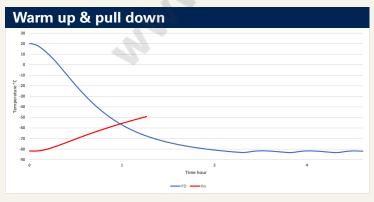
# Temperature Mapping

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	emper	ature				,				
Sensor position	P1	P2	P3	P4	<b>P</b> 5	P6	<b>P</b> 7	P8	P9	P10
Max.	-81,5	-82,7	-82,9	-82,3	-82,1	-80,7	-81,6	-80,9	-82	-81,3
Avg.	-82,4	-83,5	-83,8	-83,2	-82,7	-81,4	-82,2	-81,5	-82,7	-82,1
Min.	-83,3	-84,5	-84,7	-84,2	-83,5	-82,1	-82,9	-82,3	-83,6	-83



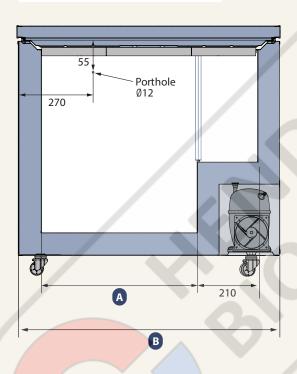


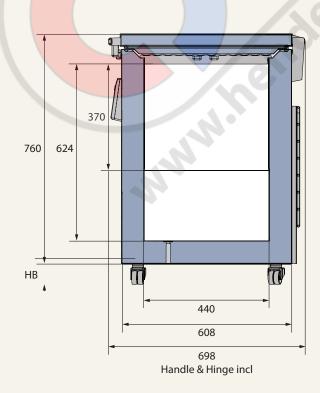
Typical performance data					
Avg. cabinet temperature	-82,5°C				
Peak variation from set-point	+/- 1,2°C				
Stability in avg.	0,8°C				
1 min. door open recovery to -75°C avg. temperature	<1 min.				
Cycle rate on/off	30 / 7 min.				
Duty cycle	77,3 %				
Energy consumption - Normal mode	9,85 kWh/day				
Energy consumption - Energy saving mode	7,04 kWh/day				
Pull down time to -75°C avg. temperature	130 min.				
Hold over time from -82°C to -60°C	72 min.				
Heat rejection	642 W				

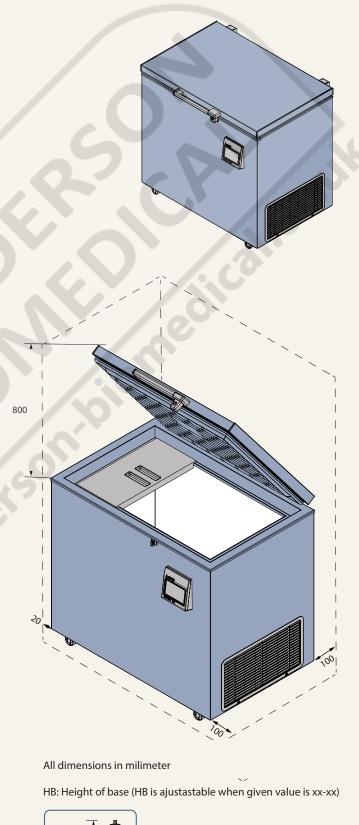


## Dimensions

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











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