





Controller	
Defrost	Manual
High/LowTemp. Alarm	Yes
Open Door Alarm	Yes
Probe Failure Alarm	Yes
Power Failure Alarm	Yes
USB Connection	Yes
Datalogging	Yes

Features	
Lock	Yes
LED Light	Yes
Battery Backup for Controller, 48h	Yes
Porthole	Yes
Dry Contact	Yes
Door	Solid
Door Features	Automatic Closure >90° Hold
Door Reversibility	No

Construction	
Outer Dimensions, HxWxD	650x630x675
Inner Dimensions, HxWxD	433x439x271
Volume Gross/net, L	37 / 37
Weight Gross/Net, kg	70 / 59
Material Inner Cabinet	Stainless Steel
Material Outer Cabinet	Painted Steel
Insulation Thickness, mm	80
InsulationType	Polyurethane with Cyclopentane
Vaccum Insulated Panels	Yes
Compressor	Variable Speed
Refrigerant	Nature R
Mobility	Standard: Adjustable Feet Option: Castors



Biomedical ULT Freezer





Operation	
Temperature Range, C°	-20 to -86
Noise, dB	46
Energy Consumption 24/h, kWh	3,2
Frequency, Hz	50
Power Supply, V	220 / 240
Instant Power Consumption	0,550
K-Value	0,19
Heat Rejection	306

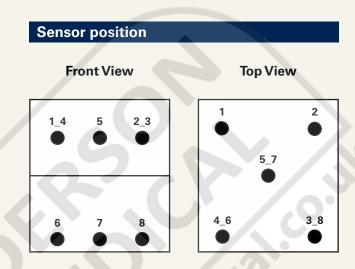
Storage	
Cryoboxes "2	33
2ml Vials	3.300



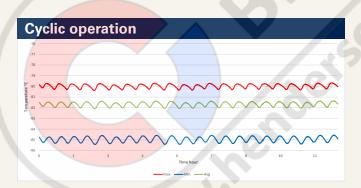


Temperature Mapping

8-point test
Controlled conditions, empty cabinet
20°C
60%
-82°C
25gr tinned brass formed as a cylinder with a diameter of 15,2mm
Appliance installed according to instruction manual conditions
Nature R



Sensor to	emper	ature		1			_ \	
Sensor position	P1	P2	P3	P4	P 5	P6	P7	P 8
Max.	-79,7	-80,2	-80,1	-79,9	-80	-83,1	-83,1	-84,6
Avg.	-80	-80,5	-80,4	-80,2	-80,3	-83,5	-83,6	-85
Min.	-80,4	-80,8	-80,8	-80,5	-80,7	-84,1	-84,1	-85,4



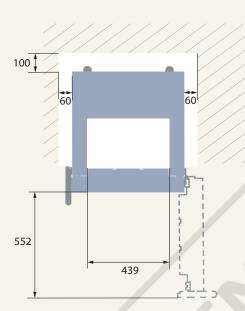


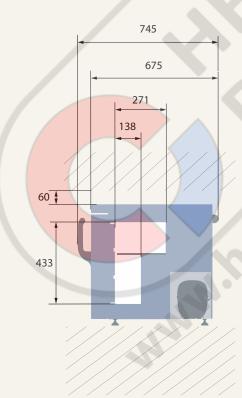
Typical Performance data				
Avg. cabinet temperature	-81,7°C			
Peak variation from set-point	+2,0/-3,7°C			
Stability in avg.	5°C			
1 min. door open recovery to -75°C avg. temperature	30 min.			
Cycle rate on/off	25,7/6,7 min.			
Duty cycle	78,7%			
Energy consumption	3,25 kWh/day			
Pull down time to -75°C avg. temperature	84 min.			
Hold over time from -82°C to -60°C	105 min.			

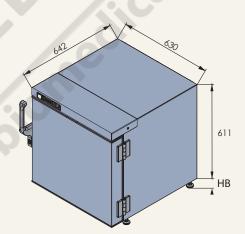


Dimensions









All dimensions in milimeters

HB: Height of base (HB is ajustastable when given value is xx-xx)







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