





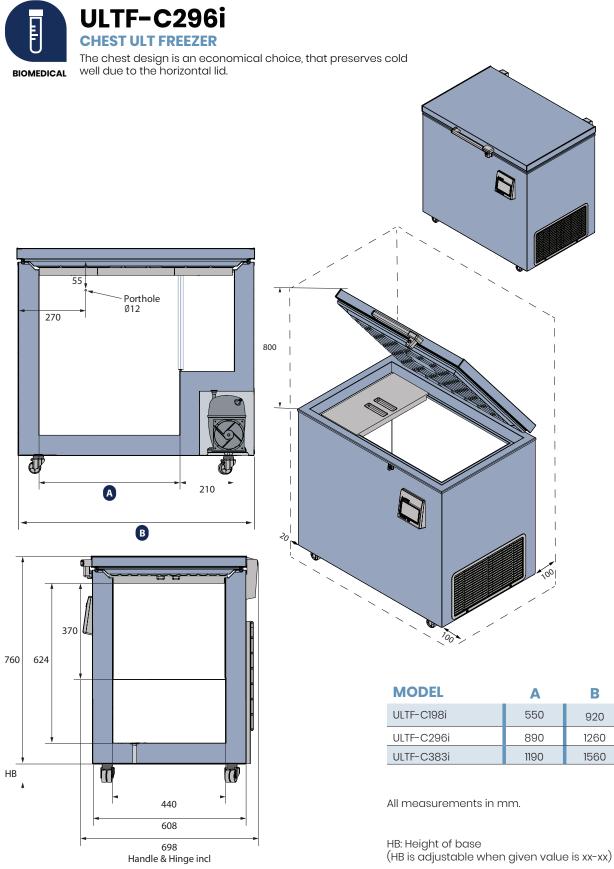
DIMENSIONS	VALUE
Outer Dimensions HxWxD	831x1260x608
Inner Dimensions HxWxD	624x1100x440
Weight Gross/Net, kg	100 / 78
Material inner cabinet	Painted Stee
Material outer cabinet	Painted Stee
Insulation thickness	80
nsulation type	Polyurethane with Cyclopentan
Mobility	Standard: 4 castors with brake
Refrigerant, Type / gram	Nature R2/14
Variable Speed Compressor	Ν
nternal Air Distribution	Statio
Number of probes	
i i i i i i i i i i i i i i i i i i i	
CONTROLLER	VALUE
Controller	i-Care, Touch screer
Controller language	EN, DE, FI
JSB Connection	Ye
Logging	Data, Alarms & Event:
Temperature graph	Ye
High/Low temp. Alarm	Ye
Dpen door alarm	N
Probe failure alarm	Ye
Power failure alarm	Ye
	16.
STORAGE	VALUE
Volume, Gross/Net, L	296/284
Cryobox "2 capacity	2007/20
2 ml vials capacity	21.600
Inner lids	Ye
FEATURES	VALUE
Lock	Ye
LED light	Ν
Battery Backup for Controller, 24h	Ye
VIP (Vacuum Insulated Panel)	N
Perimeter Heater	No
Porthole	Yes - Ø 12,5 mr
Dry Contact	Ye
	N
Vacuum valve	





Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	25°C
Max Humidity	% rh	65%
PERFORMANCE	UNIT	VALUE
All data in RT20°C		
Temperature Range	°C	-20 to -86
Uniformity in performance - difference between top and bottom	°C	+/- 1,2
Pull down time	Minutes	130min to -75°C
Hold over time	Minutes	72 min to -60°C
Noise	dB	55
Energy Saving Mode	kWh/24h	7,041 kWh/24h Set -70
Energy 24 hours	kWh/24h	9,855 kWh/24h Set -82
Energy year	kWh/year	3597,1 kWh/y Set -82°C
Instant Power Consumption	kW	PD 0,710-0,550/Stable 0,520
Heat Rejection	W	642
U-Value	W/m^2 K	0,2
COOLING COMPONENTS		VALUE
Refrigerant/Amount (gram)		Nature R 2/143gr
Number of compressors	pcs	1
Varibel speed compressor	Yes/No	No
Internal air distribution (type of)		Static
Evaporator Fan	Yes/No/Variable	No
Condenser Fan	Yes/No/Variable	Yes
Number of probes	pcs	1
Defrost	Yes/No	No









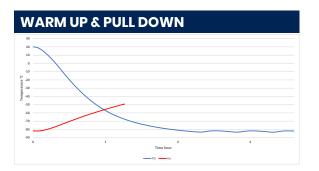


SEN

ISOR POSITION						
FR	ONT VI	EW		т	OP VIEW	
1_3	5	2_4		1_3 ●	2_4	1
6_8	10	7_9			5_10	
				6_8	7_9	

MODEL	ULTF-C296I
Test type	10-point test
Test enviroment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-82°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	Nature R 2

SENSOR TEMPERATURE										
Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Мах	-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 IN AMBIENT 20°C - EMPTY CABINET				
Avg. cabinet temperature	-82,5℃			
Peak variation from set-point	+/- 1,2°C			
Stability in avg.	0,8°C			
1 min. door open recovery to -75°C avg. temperature	্ৰ 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			

