

BIOMEDICAL



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DIMENSIONS	VALUE				
Outer Dimensions HxWxD	831x1260x608				
Inner Dimensions HxWxD	624x1100x440				
Weight Gross/Net, kg	100 / 78				
Material inner cabinet	Painted Steel				
Material outer cabinet	Painted Steel				
Insulation thickness	80				
Insulation type	Polyurethane with Cyclopentane				
Mobility	Standard: 4 castors with brakes				
Refrigerant, Type / gram	Nature R2 / 143				
Variable Speed Compressor	No				
Internal Air Distribution	Static				
Number of probes	1				
CONTROLLER	VALUE				
Controller	i-Care, Touch screen				
Controller language	EN, DE, FR				
USB Connection	Yes				
Logging	Data, Alarms & Events				
Temperature graph	Yes				
High/Low temp. Alarm	Yes				
Open door alarm					
Probe failure alarm	Ye				
Power failure alarm	Yes				
STORAGE	VALUE				
Volume, Gross/Net, L	296 / 284				
Cryobox "2 capacity	216				
2 ml vials capacity	21.600				
Inner lids	Yes				
FEATURES	VALUE				
Lock	Yes				
LED light	No				
Battery Backup for Controller, 24h	Yes				
VIP (Vacuum Insulated Panel)	No				
Perimeter Heater	No				
Porthole	Yes - Ø 12,5 mm				
Dry Contact	Yes				
Vacuum valve	No				
Door	Solid				

1

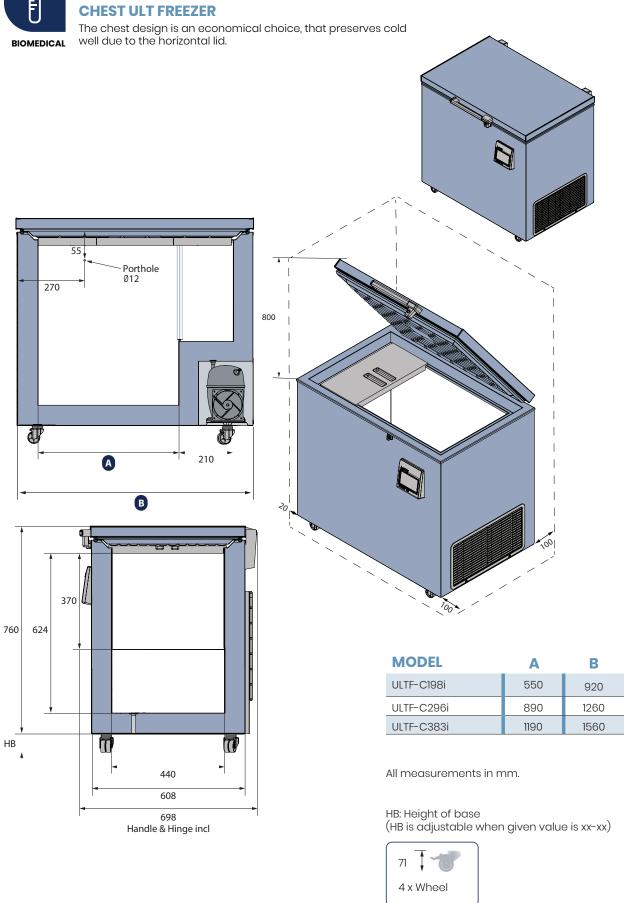


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Voltage/Frequency	Voltage/Hz	230V/50Hz		
Max Ambient	°C	25°C		
Max Humidity	% rh	65		
PERFORMANCE	UNIT	VALUE		
All data in RT20°C				
Temperature Range	°C	-20 to -86		
Uniformity in performance - difference between top and bottom	°C	+/- 1,′		
Pull down time	Minutes	130min to -75°C		
Hold over time	Minutes	72 min to -60°0		
Voise	dB	5:		
Energy Saving Mode	kWh/24h	7,041 kWh/24h Set -7		
Energy 24 hours	kWh/24h	9,855 kWh/24h Set -82		
Energy year	kWh/year	3597,1 kWh/y Set -82°0		
nstant Power Consumption	kW	PD 0,710-0,550/Stable 0,520		
leat Rejection	W	64.		
J-Value	W/m^2 K	0,2		
COOLING COMPONENTS		VALUE		
Refrigerant/Amount (gram)		Nature R 2/143g		
Number of compressors	pcs			
Varibel speed compressor	Yes/No	No		
Internal air distribution (type of)		Statio		
Evaporator Fan	Yes/No/Variable	No		
Condenser Fan	Yes/No/Variable	Ye		
Number of probes	pcs			
Defrost	Yes/No	No		





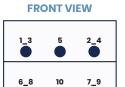
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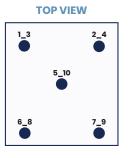


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SENSOR POSITION

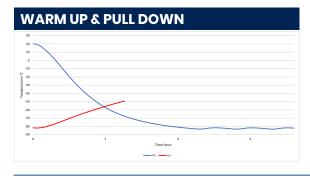
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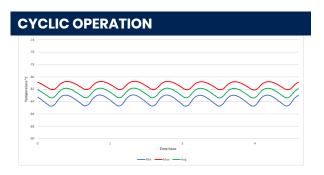




MODEL	ULTF-C296I
Test type	10-point test
Test enviroment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-82°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions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

SENSOR TEM	PERATU	IRE								
Sensor position	PI	P2	Р3	P4	P5	P6	P7	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 IN AMBIENT 20°C - EMPTY CABINET				
Peak variation from set-point	+/- 1,2°C			
Stability in avg.	0,8,0			
1 min. door open recovery to -75°C avg. temperature	া 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			