





DIMENSIONS	
Outer Dimensions HxWxD, mm	831x1260x608
Inner Dimensions HxWxD, mm	624x1100x440
Weight Gross/Net, kg	100 / 78
Material inner cabinet	Painted Stee
Material outer cabinet	Painted Stee
Packaging weight, kg	22
Packaging dimensions HxWxD, mm	900x1313x725
Insulation thickness	80
Insulation type	Polyurethane with Cyclopentane
Mobility	Standard: 4 castors with brakes
Refrigerant, Type / gram	Nature R2 / 143
Variable Speed Compressor	Nc
Internal Air Distribution	Static
Number of probes	
CONTROLLER	
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	Nc
Probe failure alarm	Yes
Power failure alarm	Yes
STORAGE	
Volume, Gross/Net, L	296 / 284
Cryobox "2 capacity	216
2 ml vials capacity	21.600
Innerlids	Yes
FEATURES	
Lock	Yes
LED light	Nc
Battery Backup for Controller, 24h	Yes
VIP (Vacuum Insulated Panel)	Nc
Door frame heater	Nc
Porthole	Yes - Ø 12,5 mm
Dry Contact	Yes
Vacuum valve	Nc
Door	Solid

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Voltage/Frequency	Voltage/Hz	230V/50Hz		
Max Ambient	°C	25°C		
Max Humidity	% rh	65%		
PERFORMANCE				
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	130 min 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 Consumption, kWh / 24h	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	450		
U-Value	W/m^2 K	0,2		
COOLING COMPONENTS				
Refrigerant/Amount (gram)		Nature R 2/143gr		
Number of compressors	pcs	1		
Variable 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			
Defrost	Yes/No	No		

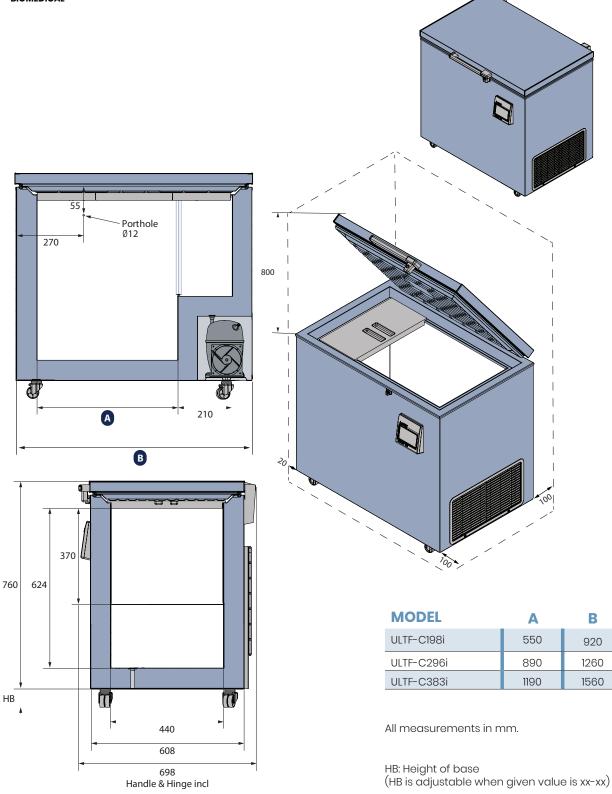
\* Heat Rejection is defined as average power based on energy consumption, rounded up to nearest 50W.

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Products are subject to change due to enhancements and continuous development. Vestfrost Solutions reserve the right to alter any information, without further notice.







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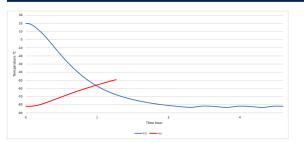
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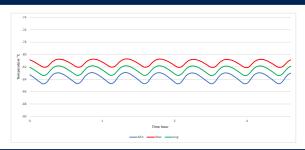


Test type Test environment Ambient temperature Humidity Set-point	10-point tes   Controlled conditions empty cabine   20°C   605		
Ambient temperature Humidity	empty cabine 20°C 60		
Humidity	605		
Set-point			
	-82°0		
Sensor used	25gr tinned brass formed as cylinder with a diameter of 15, mr		
Installation	Appliance installed according t instruction manual condition		
Refrigerant	Nature R 2		
	Installation		

Sensor position	Pl	P2	P3	P4	Р5	P6	P7	P8	Р9	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

WARM UP & PULL DOWN





**CYCLIC OPERATION** 

## **TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET**

-82,5°C
+/- 1,2°C
0,8°C
্ৰ min.
30 / 7 min.
77,3%
9,85 kWh/day
7,04 kWh/day
130 min.
72 min.
642 W

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