

ULTF-7i

ULT TECHNICAL SPECIFICATIONS

Multi voltage.

**-20°C**
-86°C

DIMENSIONS

Outer Dimensions HxWxD, mm	732x457x650
Depth incl. door handle	720
Inner Dimensions HxWxD, mm	310x150x145
Weight Gross/Net, kg	83 / 63
Material inner cabinet	Stainless steel
Material outer cabinet	Painted Steel
Packaging weight, kg	20
Packaging dimensions HxWxD, mm	909x529x754
Insulation thickness	120
Insulation type	Polyurethane with Cyclopentane
Mobility	4 x adjustable feet
Refrigerant, Type / gram	Nature R 2/85gr

FEATURES

Lock	<input checked="" type="checkbox"/>
LED light	<input type="checkbox"/>
Battery Backup for Controller, 24h	<input checked="" type="checkbox"/>
Porthole	<input checked="" type="checkbox"/>
Porthole size	20 mm
Dry contact	<input checked="" type="checkbox"/>
Door reversibility	<input type="checkbox"/>
Vacuum valve	<input checked="" type="checkbox"/>
VIP (Vacuum Insulated Panel)	<input checked="" type="checkbox"/>

STORAGE

Capacity (L)	7
Cryobox "2 capacity	5
2 ml vials capacity	500

ALARMS

High / Low temperature	<input checked="" type="checkbox"/>
Open door	<input checked="" type="checkbox"/>
Power failure	<input checked="" type="checkbox"/>
Probe failure	<input checked="" type="checkbox"/>

COOLING

Refrigerant	Nature R
Noise	< 48
Voltage	100-240 V
Frequency	50/60 Hz
Temperature range	-20 / -86

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Voltage/Frequency	Voltage/Hz	100-240 V, 50/60Hz
Max Ambient	°C	32
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	+/- 2,5
Pull down time	Minutes	132 min. to -75°C
Hold over time	Minutes	N/A
Noise	dB	< 48
Energy Saving Mode	kWh/24h	NA
Energy Consumption, kWh / 24h	kWh/24h	2,94 kWh/24h Set -80
Energy year	kWh/year	1073kWh/y Set -80°C
Instant Power Consumption	kW	PD 0,300/Stable 0,190
Heat Rejection*	W	150
U-Value	W/m ² K	N/A
COOLING COMPONENTS		
Refrigerant/Amount (gram)		Nature R 2/85gr
Number of compressors	pcs	1
Variable speed compressor	Yes/No	Yes
Internal air distribution (type of)		Static
Evaporator Fan	Yes/No/Variable	No
Condenser Fan	Yes/No/Variable	Yes
Number of probes	pcs	2
Defrost	Yes/No	No
CONTROLLER		
Controller	y/n/optional	yes
Controller type		i-Care touch
USB Connection	y/n	yes
Data connection	USB	yes
Controller abilities		logging of data & alarms
Controller languages		EN, DE, FR
Temperature curve in controller	y/n	yes

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

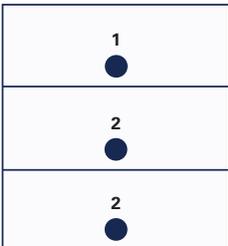
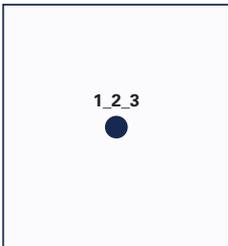
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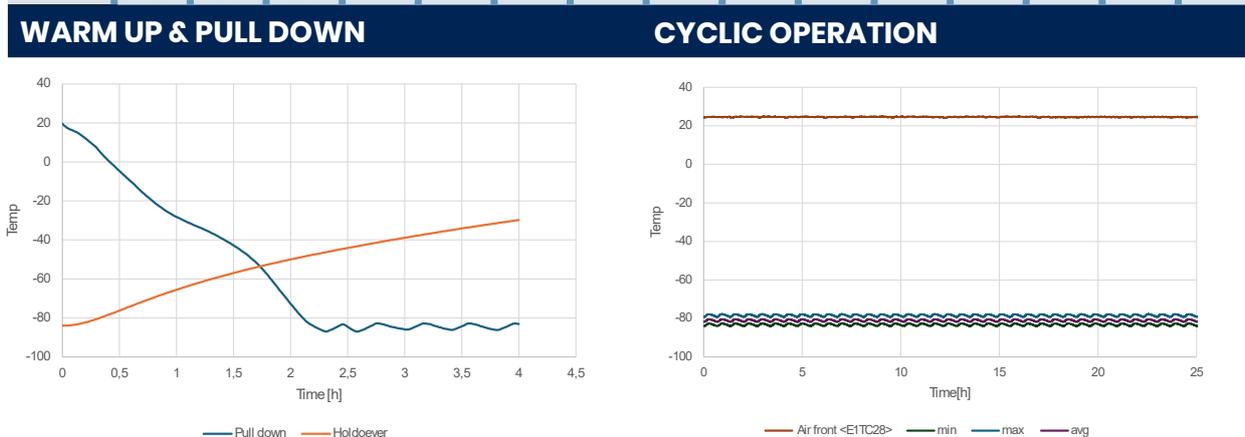
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SENSOR POSITION		MODEL	ULTF-7i
FRONT VIEW	TOP VIEW	Test type	8-point test
		Test environment	Controlled conditions, empty cabinet
		Ambient temperature	25°C
		Humidity	60%
		Set-point	-82°C
		Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
		Installation	Appliance installed according to instruction manual conditions
		Refrigerant	Nature R

SENSOR TEMPERATURE			
Sensor position	P1	P2	P3
Max	-79,2	-82,1	-84,0
Avg.	-77,8	-80,9	-82,5
Min.	-78,4	-81,4	-83,2



TYPICAL PERFORMANCE IN AMBIENT 25°C - EMPTY CABINET	
Avg. cabinet temperature at -82°C setpoint	-81,8°C
Uniformity	+/- 2,5°C
Stability	1,4°C
1 min. door open recovery to -75°C	32 min.
Cycle rate -82°C setpoint on/off	50/5 min./min.
Duty cycle -82°C setpoint	90%
Energy consumption	2,94 kWh/day
Pull down time to -75°C avg. temperature	120 min.
Hold over time from avg. -82°C to -60°C	80 min.
Heat rejection	150 W

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