

ULTF-91i

ULT TECHNICAL SPECIFICATIONS

Multi voltage.



-20°C
-86°C

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DIMENSIONS

Outer Dimensions HxWxD, mm	836x947x720
Depth incl. door handle	790
Inner Dimensions HxWxD, mm	310x640x445
Weight Gross/Net, kg	137 / 102
Material inner cabinet	Stainless steel
Material outer cabinet	Painted Steel
Packaging weight, kg	35
Packaging dimensions HxWxD, mm	1030x1040x850
Insulation thickness	120
Insulation type	Polyurethane with Cyclopentane
Mobility	3 x adjustable feet, 3 x Casters
Refrigerant, Type / gram	Nature R 2/149gr

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)	88
Cryobox "2 capacity	60
2 ml vials capacity	6.000

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	103 min. to -75°C
Hold over time	Minutes	N/A
Noise	dB	< 48
Energy Consumption, kWh / 24h	kWh/24h	5,22 kWh/24h set -80°C
Energy year	kWh/year	1905kWh/y set -80°C
Instant Power Consumption	kW	PD 0,650/Stable 0,280
Heat Rejection*	W	250
U-Value	W/m ² K	N/A
COOLING COMPONENTS		
Refrigerant/Amount (gram)		Nature R 2/149gr
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.

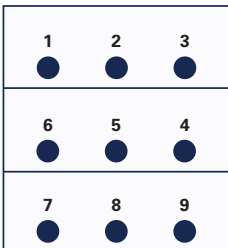
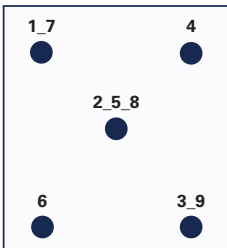
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Updated 02/2026

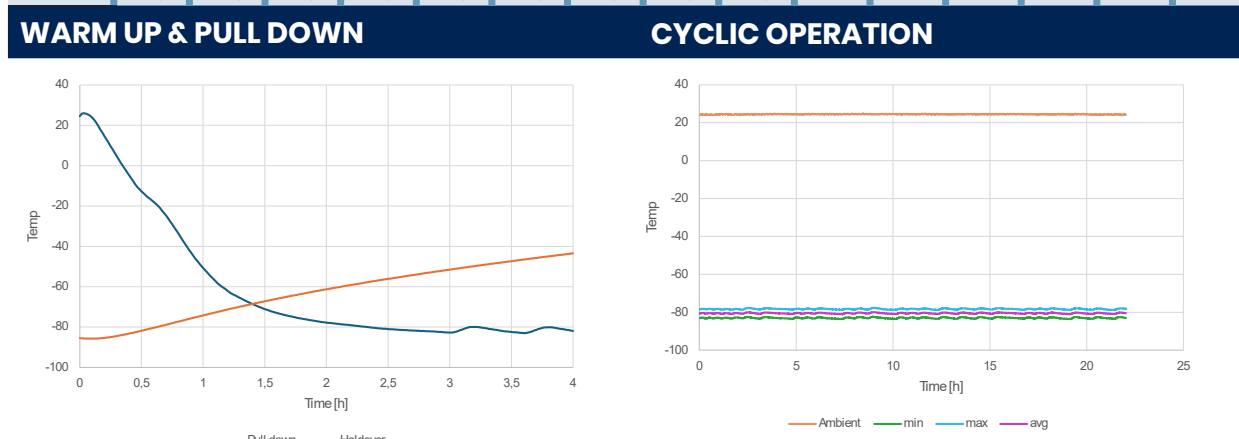
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SENSOR POSITION		MODEL	ULTF-91i
<p>FRONT VIEW</p>  <p>TOP VIEW</p> 		<p>Test type</p> <p>8-point test</p>	
		<p>Test environment</p> <p>Controlled conditions, empty cabinet</p>	
		<p>Ambient temperature</p> <p>25°C</p>	
		<p>Humidity</p> <p>60%</p>	
		<p>Set-point</p> <p>-82°C</p>	
		<p>Sensor used</p> <p>25gr tinned brass formed as a cylinder with a diameter of 15,2 mm</p>	
		<p>Installation</p> <p>Appliance installed according to instruction manual conditions</p>	
		<p>Refrigerant</p> <p>Nature R</p>	

SENSOR TEMPERATURE										
Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	
Max	-78,8	-79,6	-79,8	-80,1	-80,5	-81,0	-83,1	-83,0	-83,6	
Avg.	-77,7	-78,4	-78,7	-78,9	-79,5	-80,1	-82,1	-81,8	-82,4	
Min.	-78,3	-79,1	-79,3	-79,5	-80,0	-80,6	-82,6	-82,4	-83,0	



TYPICAL PERFORMANCE IN AMBIENT 25°C - EMPTY CABINET	
Avg. cabinet temperature at -82°C setpoint	-81,1°C
Uniformity	+/- 2,5°C
Stability	1,1°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	5,22 kWh/day
Pull down time to -75°C avg. temperature	103 min.
Hold over time from avg. -82°C to -60°C	102 min.
Heat rejection	250 W

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