

ULTF-51i

ULT TECHNICAL SPECIFICATIONS

Multi voltage.



-20°C
-86°C

DIMENSIONS

| | |
|--------------------------------|----------------------------------|
| Outer Dimensions HxWxD, mm | 836x699x720 |
| Depth incl. door handle | 790 |
| Inner Dimensions HxWxD, mm | 310x360x445 |
| Weight Gross/Net, kg | 108 / 82 |
| Material inner cabinet | Stainless steel |
| Material outer cabinet | Painted Steel |
| Packaging weight, kg | 26 |
| Packaging dimensions HxWxD, mm | 1050x750x850 |
| Insulation thickness | 120 |
| Insulation type | Polyurethane with Cyclopentane |
| Mobility | 2 x adjustable feet, 2 x Casters |
| Refrigerant, Type / gram | Nature R 2/99gr |

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) | 50 |
| Cryobox "2 capacity | 30 |
| 2 ml vials capacity | 3.000 |

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 | +/- 3,7 |
| Pull down time | Minutes | 90 min. to -75°C |
| Hold over time | Minutes | N/A |
| Noise | dB | < 48 |
| Energy Consumption, kWh / 24h | kWh/24h | 4,34 kWh/24h Set -80 |
| Energy year | kWh/year | 1584kWh/y Set -80°C |
| Instant Power Consumption | kW | PD 0,600/Stable 0,280 |
| Heat Rejection* | W | 200 |
| U-Value | W/m ² K | N/A |
| COOLING COMPONENTS | | |
| Refrigerant/Amount (gram) | | Nature R 2/99gr |
| 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.

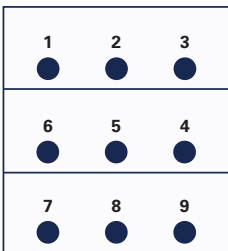
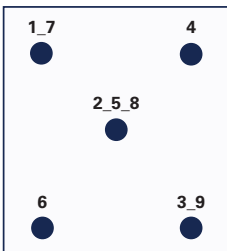
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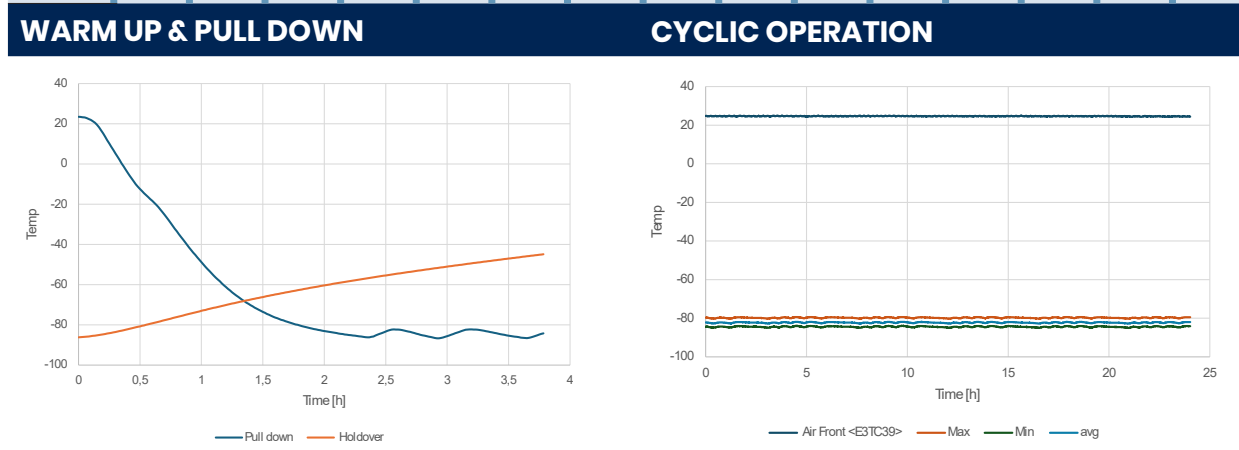
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| SENSOR POSITION | | MODEL | ULTF-51i |
|---|--|--|----------|
| <p>FRONT VIEW</p>  <p>TOP VIEW</p>  | | <p>Test type</p> <p>8-point test</p> | |
| | | <p>Test environment</p> <p>Controlled conditions, empty cabinet</p> | |
| | | <p>Ambient temperature</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 | -84,2 | -84,8 | -85,0 | -82,8 | -83,3 | -83,4 | -80,3 | -80,5 | -81,0 | |
| Avg. | -83,3 | -83,8 | -84,0 | -82,0 | -82,5 | -82,5 | -79,4 | -79,5 | -80,0 | |
| Min. | -83,7 | -84,2 | -84,4 | -82,3 | -82,8 | -82,8 | -79,7 | -79,9 | -80,4 | |



| TYPICAL PERFORMANCE IN AMBIENT 25°C - EMPTY CABINET | |
|---|----------------|
| Avg. cabinet temperature at -82°C setpoint | -82,8°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 | 4,35 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 | 200 W |

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