# 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** | ☑ |
| **LED light** | ⦸ |
| **Battery Backup for Controller, 24h** | ☑ |
| **Porthole** | ☑ |
| **Porthole size** | 20 mm |
| **Dry contact** | ☑ |
| **Door reversibility** | ⦸ |
| **Vacuum valve** | ☑ |
| **VIP (Vacuum Insulated Panel)** | ☑ |
| **STORAGE** | |
| **Capacity (L)** | 7 |
| **Cryobox "2 capacity** | 5 |
| **2 ml vials capacity** | 500 |
| **ALARMS** | |
| **High / Low temperature** | ☑ |
| **Open door** | ☑ |
| **Power failure** | ☑ |
| **Probe failure** | ☑ |
| **COOLING** | |
| **Refrigerant** | Nature R |
| **Noise** | < 48 |
| **Voltage** | 100-240 V |
| **Frequency** | 50/60 Hz |
| **Temperature range** | -20 / -86 |

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

Updated 10/2026



A/S Vestfrost | Falkevej 12 | DK-6705 Esbjerg Ø | www.vestfrostsolutions.com

# ULTF-7i

## ULT TECHNICAL SPECIFICATIONS

Multi voltage.

| | | |
|---|---|---|
| **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 2/99gr |
| **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.

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

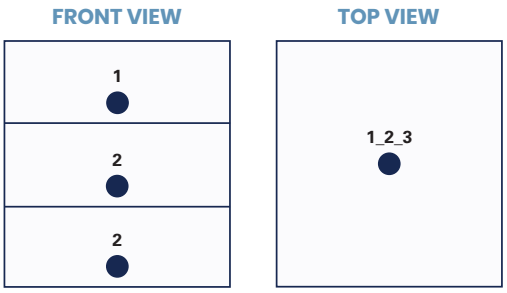
Updated 10/2026

# ULTF-7i

## ULT TECHNICAL SPECIFICATIONS

Multi voltage.

## SENSOR POSITION



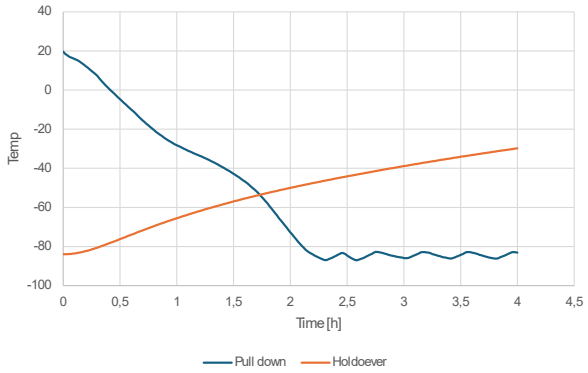

## MODEL ULTF-7I

| | |
|---|---|
| **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 |

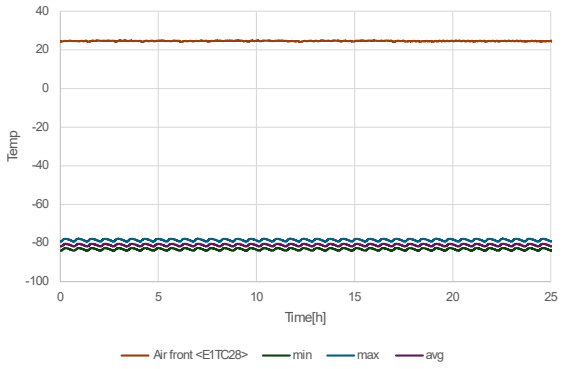
## SENSOR TEMPERATURE

| 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 |

## WARM UP & PULL DOWN




## CYCLIC OPERATION




## 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 |

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

Updated 10/2026