





| 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 | | |

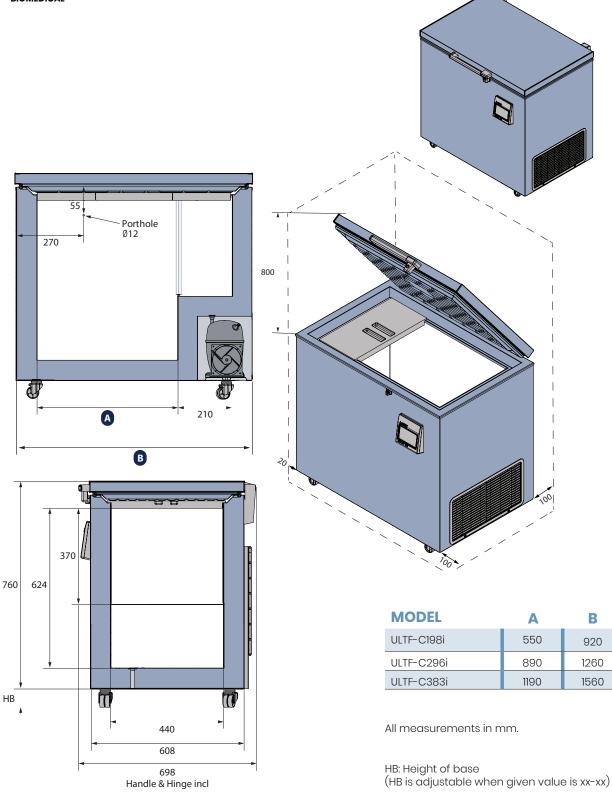
* Heat Rejection is defined as average power based on energy consumption, rounded up to nearest 50W.

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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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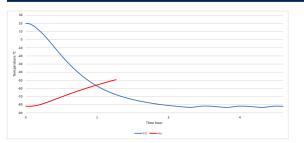
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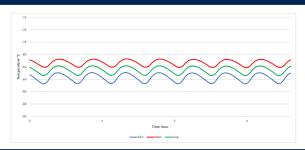


| Test type Test environment Ambient temperature Humidity Set-point | 10-point tes Controlled conditions empty cabine 20°C 605 | | |
|---|--|--|--|
| Ambient temperature Humidity | empty cabine 20°C 60 | | |
| Humidity | 605 | | |
| | | | |
| Set-point | | | |
| | -82°0 | | |
| Sensor used | 25gr tinned 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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