



# ULTF-91i

## ULT TECHNICAL SPECIFICATIONS

Multi voltage.

-20°C  
-86°C



| 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 castors    |
| 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                                  |
| 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                           |
| Ambient condition                  | 25 °C                               |



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Multi voltage.

BIOMEDICAL

|                                                                          |                    |                          |
|--------------------------------------------------------------------------|--------------------|--------------------------|
| <b>Voltage/Frequency</b>                                                 | Voltage/Hz         | 100-240 V, 50/60Hz       |
| <b>Max Ambient</b>                                                       | °C                 | 32                       |
| <b>Max Humidity</b>                                                      | % rh               | 65                       |
| <b>PERFORMANCE</b>                                                       |                    |                          |
| All data in RT20°C                                                       |                    |                          |
| <b>Temperature Range</b>                                                 | °C                 | -20 to -86               |
| <b>Uniformity in performance<br/>- difference between top and bottom</b> | °C                 | +/- 2,5                  |
| <b>Pull down time</b>                                                    | Minutes            | 103 min. to -75°C        |
| <b>Hold over time</b>                                                    | Minutes            | N/A                      |
| <b>Noise</b>                                                             | dB                 | < 48                     |
| <b>Energy Consumption, kWh / 24h</b>                                     | kWh/24h            | 5,22 kWh/24h set -80°C   |
| <b>Energy year</b>                                                       | kWh/year           | 1905kWh/y set -80°C      |
| <b>Instant Power Consumption</b>                                         | kW                 | PD 0,650/Stable 0,280    |
| <b>Heat Rejection</b>                                                    | W                  | N/A                      |
| <b>U-Value</b>                                                           | W/m <sup>2</sup> K | N/A                      |
| <b>COOLING COMPONENTS</b>                                                |                    |                          |
| <b>Refrigerant/Amount (gram)</b>                                         |                    | Nature R 2/149gr         |
| <b>Number of compressors</b>                                             | pcs                | 1                        |
| <b>Variable speed compressor</b>                                         | Yes/No             | Yes                      |
| <b>Internal air distribution (type of)</b>                               |                    | Static                   |
| <b>Evaporator Fan</b>                                                    | Yes/No/Variable    | No                       |
| <b>Condenser Fan</b>                                                     | Yes/No/Variable    | Yes                      |
| <b>Number of probes</b>                                                  | pcs                | 2                        |
| <b>Defrost</b>                                                           | Yes/No             | No                       |
| <b>CONTROLLER</b>                                                        |                    |                          |
| <b>Controller</b>                                                        | y/n/optional       | Yes                      |
| <b>Controller type</b>                                                   |                    | i-Care touch             |
| <b>USB Connection</b>                                                    | y/n                | Yes                      |
| <b>Data connection</b>                                                   | USB                | Yes                      |
| <b>Controller abilities</b>                                              |                    | Logging of data & alarms |
| <b>Controller languages</b>                                              |                    | EN, DE, FR               |
| <b>Temperature curve in controller</b>                                   | y/n                | Yes                      |