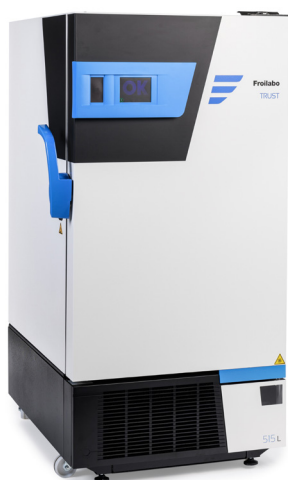


DATA SHEET

TRUST | 515 L | -86°C



| Reference | Reference |
|------------|-----------|
| BMTRU51586 | |

General specifications

| | |
|---|--|
| Raw volume | 515 liters / 18.1 cu.ft. - 3 compartments |
| Storage capacity | 36 000 cryotubes 2mL |
| Dimensions : externals (H x W x D) internals (H x W x D) | 1640 x 875 x 970 mm / 64.6 x 38.2 x 34.5 in. 1076 x 630 x 752 mm / 42.4 x 29.6 x 24.8 in. |
| Construction : external internal | Electrogalvanised steel with epoxy paint Stainless steel inner tank with rounded corners |
| Insulation | 6 faces Vacuum Insulation Panel (VIP) and high density polyurethane foam Thermal conductivity < 0.005 W/m/K |
| Net weight | 267 kg / 589 lb. |
| Standard equipment | 2 shelves (maximum weight per shelf: 75 kg / 165 lb) 4 swivel castors 2 levelling feet Key lock (2 keys supplied) Cable port on the back of the device 1 power cord, 3m long with IEC19 detachable connectors |
| Ambient temperature | From +18°C (65°F) to +32°C (89°F) |
| Indoor / outdoor use | For indoor use only |
| Environnement | Not designed for use in explosive atmospheres (ATEX) |
| Noise level | 56 dB |
| Warranty | <ul style="list-style-type: none"> • 2 years • 5 years : fan, compressors, condenser • 10 years : VIP insulation |

Refrigeration system

| | |
|-------------------|--|
| Cooling engine | 2 stage compressors cascade system with intermediate plate heat exchanger Cold production by 5 internal walls |
| Expansion device | Capillary tube |
| Refrigerant load | 1st stage : R417A / 2nd stage : R508B (non-flammable, without CFC and HCFC)* |
| Defrosting method | Manual with heated door-seal and heated valve pit |

Electric and electronic data

| | |
|-----------------------|--|
| Controller type | Fuji regulator and Schneider industrial automaton |
| Temperature probe | 1 x Pt100 3 wires probe |
| List of alarms | <ul style="list-style-type: none"> • Configurable high and low temperature alarm • Open door alarm, triggered after 2 minutes opening • Alimentation 230 VAC, overpressure CP1, battery charge failure, engine failure, CO₂ / LN₂ injection in progress |
| Types of alarms | Visual (OK and pictograms) and acoustic with automatic reactivation after predefined delay |
| Remote alarm contact | NO - NC dry contact (optional) |
| Power | 1500 W |
| Types of power supply | <ul style="list-style-type: none"> • Voltage 230V ~ +/-10%, 50 Hz, fuse protection «aM 12A» • Voltage 110V ~ +/-10%, 50/60Hz, fuse protection «aM 20A» • Voltage 208V ~ +/-10%, 60Hz, fuse protection «aM 12A» |

Performances (ambient temperature : 22°C / 72°F)

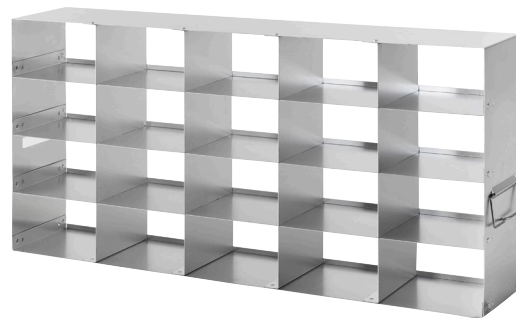
| | |
|---------------------------------|--|
| Temperature range | From -60°C to -86°C, 1/10th degree display |
| Pull down from ambient to -86°C | ~ 4 hours |
| Uniformity at -80°C | +/-5°C |



| Options and conformities | |
|------------------------------|---|
| Options | <ul style="list-style-type: none"> • Cryo-accumulators (recovery time multiplied by 2) • CO₂ / LN₂ backup system (150 bar max electrical valve) • Additional Pt 100 ohms 3 wires • Thermocouple K probe • Circular chart recorder (external housing) • 4-20mA output • COFRAC 9 points temperature mapping • IQ / OQ documentation • BoSS system • NO - NC dry contact • Padlock closure |
| Supplied with | <ul style="list-style-type: none"> • User manual • Detachable washable filter • Ice scraper |
| Certification / Conformities | <ul style="list-style-type: none"> • EN61010-1 – Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements • 2014/35/UE – Low voltage directive • 2014/30/UE – EMC directive, Class A device • 97/23/CE – Under pressure devices |

| Shipping | |
|---------------------------------|---|
| Shipping dimensions (H x W x D) | 1800 x 940 x 1170 mm / 70.9 x 37 x 46.1 in. |
| Shipping weight | 320 kg / 706 lb. |
| Type of package | Delivered on pallet with unloading ramp |

| Storage elements | |
|--|--|
| Full range of storage elements available | |



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