

DATA SHEET

TRUST | 515 L | -45°C



Reference

BMTRU51545

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 casters 2 levelling feet Key lock (2 keys supplied) 1 power cord, 3m long with IEC19 detachable connectors |
| Ambient operating 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 | 2 years 5 years : fan, compressor, condenser 10 years : VIP insulation |

Refrigeration system

| | |
|-------------------|--|
| Cooling engine | 1 hermetic compressor Cold production by 5 internal walls |
| Expansion device | Capillary tube |
| Refrigerant load | ISCEON 89 (non-flammable, CFC-free and HCFC-free)* |
| 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 et pictograms) and acoustic with automatic reactivation after predefined delay |
| Remote alarm contact | NO - NC dry contact (optionnal) |
| Energy consumption | < 1100 W |
| Types of power supply | Voltage 230V ~ +/-10%, 50 Hz, fuse protection «aM 12A» Voltage 110V ~ +/-10%, 50/60Hz, fuse protection «aM 20A» Voltage 220V ~ +/-10%, 60Hz, fuse protection «aM 12A» |

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

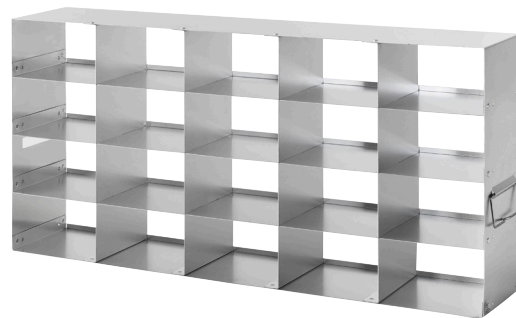
| | |
|---------------------|--|
| Temperature range | From -45°C to -25°C, 1/10th degree display |
| Uniformity at -40°C | +/-5°C |



| Options and conformities | |
|------------------------------|--|
| Options | <ul style="list-style-type: none"> • Cryo-accumulators (from 6h to 8h additional autonomy) • CO₂ / LN₂ backup system (150 bar max electrical valve) • Additional Pt 100 ohms 3 wires • Thermocouple K probe • Circular chart recorder • 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 • 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 | |



©2019 Froilabo. All rights reserved.

FROILABO freezers are designed in France and made in U.E.
 The specifications and technical data presented in this datasheet are those in our possession on the date of emission. FROILABO reserves the right to make, without notice, any modifications to its products, specifications, colors, materials and technical data, or to interrupt the manufacture of the freezers.
 Despite the care taken in its realization, this product sheet does not constitute a contractual document.

For more informations, go to sur www.froilabo.com.
 FP_BMTRU51545/EN_rev1.0 | 11/2019

Headquarter address : Froilabo, 5 avenue Lionel Terray 69330 Meyzieu, France