

DATA SHEET

TRUST | 690 L | -45°C



Reference

BMTRU69045

General specifications

Raw volume	690 liters / 24.3 cu.ft. - 4 compartments
Storage capacity	48 000 cryotubes 2mL
Dimensions : externals (H x W x D) internals (H x W x D)	1990 x 875 x 970 mm / 78.4 x 38.2 x 34.5 in. 1436 x 630 x 752 mm / 56.6 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	330 kg / 728 lb.
Standard equipment	3 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 (optional)
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)

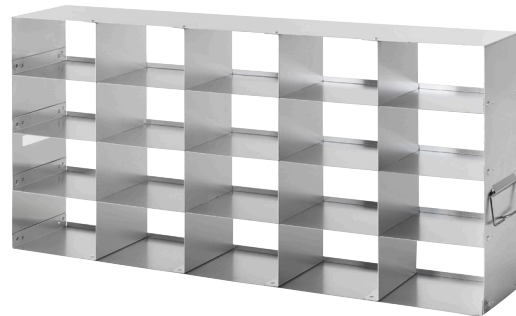
Temperature range	From -45°C to -25°C, 1/10th degree display
Uniformity at -40°C	+/-5°C



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)	2150 x 940 x 1170 mm / 84.7 x 37 x 46.1 in.
Shipping weight	350 kg / 772 lb.
Type of package	Delivered on pallet with unloading ramp

Storage elements	
Full range of storage elements available	



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 FP_BMTRU69045/EN_rev1.0 | 11/2019

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