

DATA SHEET

TRUST | 340 L | -86°C



Reference	
BMTRU34086	
General specifications	
Raw volume	340 liters / 12.0 cu.ft. - 2 compartments
Storage capacity	24 000 cryotubes 2mL
Dimensions : externals (H x W x D) internals (H x W x D)	1280 x 875 x 970 mm / 50.4 x 38.2 x 34.5 in. 716 x 630 x 752 mm / 28.2 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	223 kg / 492 lb.
Standard equipment	1 shelf (maximum weight per shelf: 75 kg / 165 lb) 4 swivel castors 2 levelling feet Key lock (2 keys supplied) 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
Environment	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 automation
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	1150 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 220V ~ +/-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)	1550 x 940 x 1170 mm / 61.1 x 37 x 46.1 in.
Shipping weight	268 kg / 591 lb.
Type of package	Delivered on pallet with unloading ramp
Storage elements	
Full range of storage elements available	

