DATA SHEET TRUST | 340 L | -86°C | NATURAL GAS

	Reference
	BMTRU34086G

	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 equipement	1 shelf (maximum weight per shelf: 75 kg / 165 lb) 4 swivel casters 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	 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 : R290 / 2nd stage : R170	
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	 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)	
Power	1450 W	
Types of power supply	 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	 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	User manual Detachable washable filter Scraper	
Certification / Conformities	 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	





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FROILABO freezers are designed in France and made in E.U.

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