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



	BMEV034086G
	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 casters 2 levelling feet Key lock (2 keys supplied) Cable port on the back of the device 1 power cord, 2m long
Working 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	 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
Heat rejection	340L: 0.9kW, 515L: 1.1kW, 690L: 1.3kW
Defrosting method	Manual with heated door-seal and heated valve pit

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	Electric and electronic data
Controller type	Plug & play electronic regulator
Temperature probe	1 x Pt100 3 wires probe
List of alarms	 Configurable high and low temperature and open door alarm Filter alarm, high pressure default, 24V battery back-up, BoSS system activated, CO₂ / LN₂ injection in progress
Types of alarms	Visual (12 LED and pictograms) and acoustic alarms
Remote alarm contact	NO - NC dry contact
Power	1150 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)
Température 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

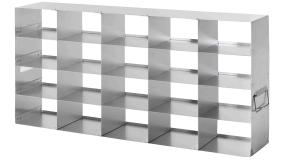
	Management interface
Type of interface	Touch screen for easy navigation indicator with USB port for data collection
Type of menu	 «Diagnostics» for real-time informations about the freezer «Statistics» for an overview of the figures related to the conditions of use «Eco» to minimize the power consumption «Infos» with serial number, gas load, BTU information
Security	 Settings protected by password Key locked freezer Delay for compressors restarting after power outrage
	Options and conformities
Options	 Cryo-accumulators (recovery time multiplied by 2) CO₂ / LN₂ backup system (150 bar max electrical valve) Additional Pt100 ohms 3 wires Thermocouple K probe Temperature sensor delivred with its certificate of conformity Circular chart recorder (external housing) 4-20mA output COFRAC 9 points temperature mapping IQ / OQ documentation Padlock closure
Supplied with	 User manual Detachable washable filter Ice 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 direcive, Class A device 97/23/CE - Under pressure devices
	Shipping

	Snipping
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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For more informations, go to sur www.froilabo.com. FP_BMEV034086G/EN_rev1.4 | 10/2020

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