

Deep freezers -86°C

B_{io} M_{emory}



Upright deep freezers - Standard version
BM175 / BM340 / BM515 / BM690

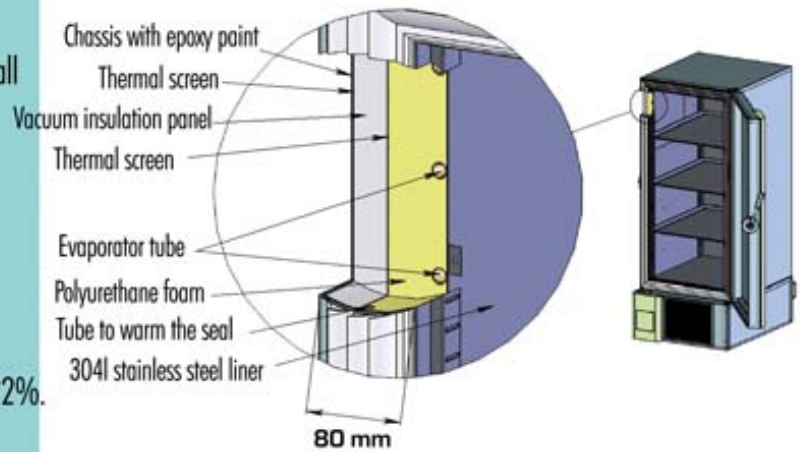
Froilabo Firlabo



The latest technologies enhancing the performance of the "Bio Memory"

More effective, the latest generation of insulation with vacuum insulation panels (VIP) :

- Thermal conductivity $< 0,005 \text{ W / m / K}$
- The insulation quality is improved at the same time as reducing the wall thickness from 10 to 8 cm.
- Increased storage capacity : 48 000 - 2 ml vials on 0,75 m².
- The application of this technology to all 6 walls gives a spectacular improvement in the insulation performance of our freezers.
- The operating time of the compressors is reduced and your electricity consumption is cut by 15%.
- The autonomy in the event of a temperature rise is improved by over 22%.



Quieter - a new external rotor motor-fan unit (IP65) for the condenser.

More robust and responsive - silicone-sleeved type "K" thermocouple temperature sensors.

More reliable, more stable - a new regulation system assisted by an industrial controller ensures a stability of $\pm 1^\circ\text{C}$.

More uniform in temperature - a large surface area heat exchanger, giving a uniformity of $\pm 3^\circ\text{C}$ for a setting of -80°C . The temperature is guaranteed to lie between -77°C and -83°C at all points within the cabinet.

Your samples protected

Simultaneous digital indication of the set point and actual temperature.

High and low temperature alarm :

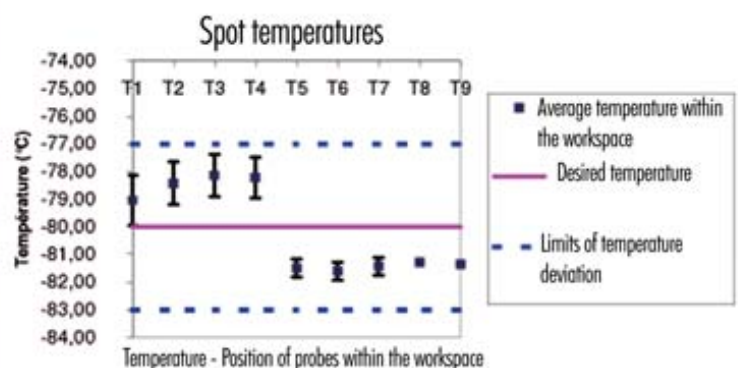
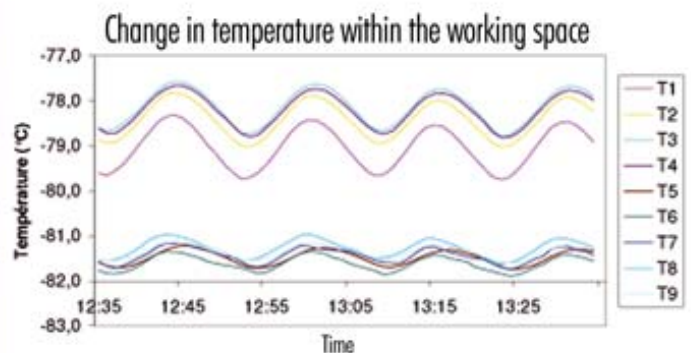
- audible and visible.
- backed up by a 24 V battery.
- manual cancellation of the audible alarm.
- brought out on a dry contact.

Door open alarm.

Blocked condenser alarm.

Mains failure alarm.

Locking of the control panel keys.



Freezers that make life easier

Lining and fittings in 304 stainless steel. Rounded corners - essential at low temperatures.

Door closure with one hand, progressive tightening. Opening simplified by the extraction position.

Heated silicone door seal with 3 lips limits frost formation.

Heated pressure equaliser for instant door opening.

Insulating gates with colour-coded handles.

Washable condenser filter, accessible from the front.

Key locking (option).

2 rear spacing stops ensure the free circulation of air behind the freezer.

4 castors and 2 levelling adjusters.

Ease of installation (2 m x 0.8 m, fits standard doorway)

Permissible ambient temperature up to +35°C.

Cable entry port.



BM690



Technical specifications

Characteristic	BM175	BM340	BM515	BM690
Volume (l)	175	339	510	680
Max capacity in vials	12 000	24 000	36 000	48 000
Ext. Dimensions (h x w x d, mm)	1330 x 875 x 712,5	1280 x 875 x 1012	1640 x 875 x 1012	2000 x 875 x 1012
Int. Dimensions (h x w x d, mm)	620 x 630 x 452	716 x 630 x 752	1076 x 630 x 752	1436 x 630 x 752
No. Of compartments	2	2	3	4
Supply	230V / 50 Hz	230V / 50 Hz	230V / 50 Hz	230V / 50 Hz
Net weight (Kg)	185	223	267	330
Gross weight (Kg)	235	273	317	380

Respect for the environment

Ecological operation

New refrigerants, CFC-free and HCFC-free

By improving the insulation, we reduce electricity consumption by 15%.



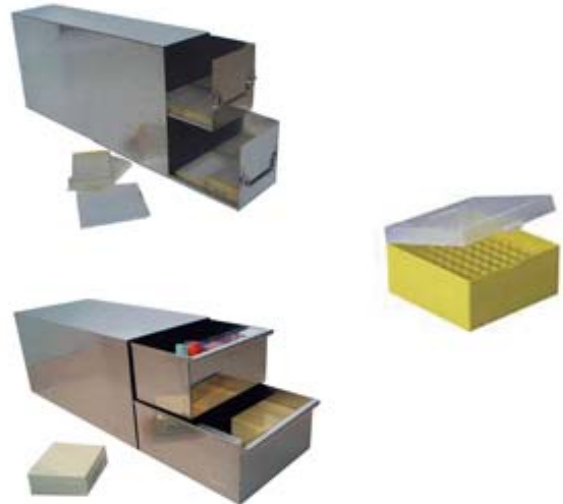
Options and accessories

Security management :

- CO₂ backup with 150 bar max. / N₂ electrical valve.
- Cryo-accumulators.
- Water cooling.
- Temperature recorder.
- Remote alarm.
- Additional temperature sensor.

Storage organisation :

- For your vials : rods, drawers, cryoboxes.
- For your straws : drawers, beakers.
- For your pockets : drawers, trays.
- For your 96-well panels : micropanel racks.



Quality service for every customer

We are committed to provide the best service for our new -86°C BIO MEMORY generation of freezers, designed and manufactured by FROILABO.

Our After-Sales Service provides a high-quality telephone service.

Spare parts supply by express delivery.

This document does not represent a contractual commitment; we reserve the right to make changes without notice.



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BM 175