



## Ultra low freezers

# Bio Memory -45°C

### Spécifications



- Temperature range : -20°C to -45°C.
- Simultaneous display of the set-point and the real temperature
- Electronic regulator assisted by an industrial PLC
- Pt100 ohm sensor for the regulation and display
- 3 available types : bench, vertical or horizontal
- Stainless steel inner chamber
- Locking
- Pressure equalizer
- Insulated color-coded inner door
- Heated silicone 3-lipped seal limits frost
- Castors
- Supply cable.
- Audible and visual alarm for high and low temperature
- Open-door alarm, power failure, blocked condenser alarm
- Supplied with alarm battery back-up
- Standard cable access

### Avantages

- UNRIVALED PERFORMANCE:
  - Excellent homogeneity < +/-3°C to -80°C
  - Exceptional stability +/-1°C to -80°C
  - Fast cooling: from 22°C to -81°C in 4h (690L)
  - Fast set temperature recovery after door opening
  - Sustain ambient temperature (environment) up to 35°C

THE BoSS SYSTEM : Maximum protection of the samples

The samples protection must be efficient in any circumstance, even in unlikely case of low voltage/electronic system outage. The BoSS system compensates for that potential issue and will engage the compressors permanently, maintaining a permanent deep freeze production.

-Preservation of the samples

-30 hour regulation on batteries; then direct connection to the power source (110V or 220/230V) of the compressors

-No emergency maintenance required / easy problem identification for the service engineer



### -45°C BM VERTICAL FREEZER

Reference	Description	Volume (L)	Interior Dimensions (WxDxH) mm	Exterior Dimensions (WxDxH) mm	Cryotube Capacity	Number of compartments	Net Weight (kg)	Power supply
BMESS34045	-45°C Vertical Freezer	340	716x630x752	1280x875x985	24000	2	223	220V, 50Hz
BMESS51545	-45°C Vertical Freezer	515	1076x630x752	1640x875x985	36000	3	267	220V, 50Hz
BMESS69045	-45°C Vertical Freezer	690	1436x630x752	1990x875x985	48000	4	330	220V, 50Hz
BM100045	-45°C Vertical Freezer	1000	1436x920x765	1990x1200x985	72000	4	390	220V, 50Hz
BM17545/26	-45°C Vertical Freezer	175	620x630x452	1330x875x712.5	12000	2	185	220V, 60Hz
BM34045/26	-45°C Vertical Freezer	340	716x630x752	1280x875x985	24000	2	223	220V, 60Hz
BM51545/26	-45°C Vertical Freezer	515	1076x630x752	1640x875x985	36000	3	267	220V, 60Hz
BM69045/26	-45°C Vertical Freezer	690	1436x630x752	1990x875x985	48000	4	330	220V, 60Hz

Reference	Description	Volume (L)	Interior Dimensions (WxDxH) mm	Exterior Dimensions (WxDxH) mm	Cryotube Capacity	Number of compartments	Net Weight (kg)	Power supply
BM100045/26	-45°C Vertical Freezer	1000	1436x920x765	1990x1200x985	72000	4	390	220V, 60Hz, 110V,
BM17545/156	-45°C Vertical Freezer	175	620x630x452	1220x875x712.5	12000	2	185	50/60Hz
BM51545/156	-45°C Vertical Freezer	515	1076x830x752	1040x875x985	36000	3	267	110V, 50/60Hz
BM69045/156	-45°C Vertical Freezer	690	1436x630x752	1990x875x985	48000	4	330	110V, 50/60Hz
BM100045/156	-45°C Vertical Freezer	1000	1436x920x765	1990x1200x985	72000	4	390	110V, 50/60Hz

#### -45°C BM OPTIONS

Reference	Models	Description
BM/CRYO1	BM175	Cryo-reservoir, temperature increased delayed by additional +/- 6 hours
BM/CRYO2	BM340	Cryo-reservoir, temperature increased delayed by additional +/- 6 hours
BM/CRYO3	BM515	Cryo-reservoir, temperature increased delayed by additional +/- 6 hours
BM/CRYO4	BM690	Cryo-reservoir, temperature increased delayed by additional +/- 6 hours
BM/OPT1	All	Regulation and alarms stored on 24 V battery, inutile si secours CO2 ou N2
BM/OPT2	All	Pt 100 ohm probe, 3 wires, 4-20 mA (-100°C to +50°C). Rear output on connectors
BM/OPT3	All	K thermocouple probe (-100°C to +50°C). Rear DIN connector
BM/OPT4	All	Pt 100 ohm probe, 3 wires (-100°C to +50°C). Rear DIN connector
BM/OPT5	All	Probe with 3 meters cable for external calibration
BM/OPT6	All	Certified temperature probe
BM/OPT7	All	0°C to 100°C circular chart recorder, 1 run for 7 days

#### -45°C BM ACCESSORIES

Reference	Models	Description
BM/ETA1	BM175	Stainless steel rack (WxD: 597 x 445 mm)
BM/ETA2	BM340/515/690	Stainless steel rack (WxD: 597 x 445 mm)
BM/ETA3	BM 1000	BM1000 stainless steel rack
BM/QP	All	Protocol of qualified performance
BM/QIQO	All	Installing and supplying QI/QO documentation (excluding travel expenses)

#### -45°C BMH HORIZONTAL FREEZER

Reference	BMH Description	Volume (L)	Interior Dimensions (WxDxH) mm	Exterior Dimensions (WxDxH) mm	Cryotube Capacity	Number of compartments	Net Weight (kg)	Power supply
BMH34045	-86°C Horizontal Freezer	340	765x716x630	032x1380x794	24000	1	233	220V, 50Hz
BMH51545	-86°C Horizontal Freezer	515	765x1076x630	1032x1740x794	36000	1	277	220V, 50Hz
BMH69045	-86°C Horizontal Freezer	690	765x1436x630	1032x2100x794	48000	1	340	220V, 50Hz

#### -45°C BMP CHEST FREEZER

Reference	BMH Description	Volume (L)	Interior Dimensions (WxDxH) mm	Exterior Dimensions (WxDxH) mm	Cryotube Capacity	Number of compartments	Net Weight (kg)	Power supply
BMP17545	-86°C Benchtop freezer	175	620x630x452	810x1275x680	12000	2	185	220V, 50Hz

#### -45°C BMH AND BMP OPTIONS

Reference	Models	Description
BM/OPT1	All	Regulation and alarms stored on 24 V battery, inutile si secours CO2 ou N2
BM/OPT2	All	Pt 100 ohms probe, 3 wires, 4-20 mA (-100°C to +50°C). Rear output on connectors
BM/OPT3	All	K thermocouple probe (-100°C to +50°C). Rear output connectors
BM/OPT4	All	Pt 100 ohms probe (-100°C to +50°C). Rear DIN connectors
BM/OPT5	All	Probe with 3 meters cable for external calibration
BM/OPT6	All	Certified temperature probe
BM/OPT7	All	0°C to 100°C circular chart recorder, 1 run for 7 days
BM/OPT9	All	RS485 port for data transfer
BM/OPT11	All	Cable entry port with gland on decompression valve

## ABOUT US

Founded in Lyon in 1918 at the request of pharmaceutical companies which then grow in the Lyon region and looking for the sample preparation equipment...

## SERVICE DEPARTMENT

From 8.00 to 17.00 Monday to Thursday  
From 8.00 to 16.00 on Fridays

## CONTACT OUR SERVICE

+33 (0)1 60 95 15 70

## CONTACT US

Froilabo

5 avenue Lionel Terray 69330 Meyzieu - FRANCE

Pho : +33 (0)4 78 04 75 75 - Fax : +33 (0)4 78 93 08  
24

35 boulevard Beaubourg 77184 Emerainville -  
FRANCE

Pho : +33 (0)1 60 95 15 70 - Fax : +33 (0)1 60 77 11

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