

Preservation

above-zero

Blood Bank Refrigerators

Specially designed to provide precise and reliable temperature control that meets various criteria for whole blood and blood derivatives.



MBR-1405GR

Designed to conform to AABB criteria, the PHCbi MBR series GR type (stainless steel roll-out drawers with card holder) ensures stable and reliable temperature control utilizing PHCbi original technology. A special highly efficient compressor designed and developed by PHCbi provides rapid cooling and quiet performance for each model.

Temperature Variations Prevented

The PHCbi MBR Series is designed to minimize cold air loss even with frequent door openings.

- **Separated transparent inner doors** minimize the chamber air leakage during door openings.
- **Foamed-in-place insulation** in the walls and **magnetic sealed outer doors with double-pane glass window** prevent chamber air leakage and promote complete door closings.
- **Large air circulation fan** enables rapid temperature recovery after door openings. (Double fan for MBR-1405GR.)

User-Friendly Design

- **Fluorescent interior lamp** with ON/OFF switch and a **large view window** in the outer door provide a clear view of stored items.
- **Digital display** is easy to see, and is calibratable through the control panel.



Easy-access front control panel (MBR-305GR, MBR-705GR, MBR-1405GR)

- Filterless construction eliminates bothersome filter cleaning. (MBR-305GR)

Alarm and Safety Functions

To ensure the safety of precious blood supply, the PHCbi MBR Series provides the following safety functions:

- **Audible and flashing LED visual alarms** with remote alarm contacts, in case of power failure, high or low temperature condition, or any thermal sensor abnormality.
- Door alarm and key lock are standard features.

- Re-activating buzzer, lamp and remote alarm contact. (30 min. after buzzer stops)
- Built-in temperature recorder.

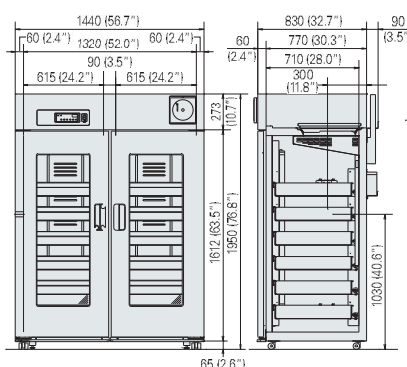
Environmentally Friendly

PHCbi MBR Series feature commercially-available HCFC-free, HFC refrigerants and HCFC-free insulation.

Specifications

Model No.	MBR-1405GR
Exterior dimensions (W x D x H)	1440 x 830 x 1950 (mm) / 56.7 x 32.7 x 76.8 (inch)
Interior dimensions (W x D x H)	1320 x 710 x 1500 (mm) / 52.0 x 28.0 x 59.1 (inch)
Net weight	315kg (GR)
Effective capacity	1301 liters [45.9 cu.ft.]
Storage capacity	720 bags (450mL), without baskets
Exterior cabinet	Galvanised steel with baked-on finish
Interior cabinet	Galvanised steel with baked-on finish
Cabinet insulation	Foamed-in-place rigid polyurethane
Outer door	Insulated steel frame with double-layer glass windows
Door lock	2
Inner door (acrylic)	6
Shelves	12 coated hard steel wire shelves
Drawers	12 stainless steel roll-out drawers (GR)
Castors	4
Compressor	250W hermetically sealed
Refrigerant	HFC
Temperature	4°C ±1.5°C (Ambient temperature 35°C)
Air circulation	Forced air circulation
Defrost	Fully automatic
Temperature control	Microprocessor control
Temperature alarm	High (6°C), Low (2°C), Audible and visual alarm
Power failure alarm	Audible and visual alarm (24 hours), Automatic rechargeable battery (Ni-MH)
Door alarm	Audible and visual alarm
Part replacement notification	Fan motor, Battery
Remote alarm contact	DC30V, 2A, Temperature alarm or power failure alarm
Temperature monitor	2 bottles with thermistor sensor
Lighting	40W fluorescent lamp
Access port	2
Accessories	1/7/30-day circular recorder, Door lock key
Options	Recording paper (RP-G04-PW), Recording pen (PG-R-PW)
	Interface board for the data acquisition system MTR-5000 user (MTR-L03-PW or MTR-480-PW)

Dimensions Unit : mm (inch)



MBR-1405GR

Caution: PHC Corporation guarantees this product under certain warranty conditions. However, please note that PHC Corporation shall not be responsible for any loss or damage to the contents of the product.

• Appearance and specifications are subject to change without notice.

*1 External dimensions of main cabinet only - see dimension drawings showing handles and other external projections.



Freezers, Refrigerators, Incubators, and Drying and Sterilising Equipment for Medical use

The management of the design, development, production and distribution of the above.

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PHC Corporation, Biomedical Division is certified for:

Environmental management system: ISO14001

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