



# -40°C Biomedical ECO Freezer with Natural Refrigerants



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# -40°C biomedical ECO freezer with separate temperature controls for the 2 completely independent chambers

The unit provides environmental savings and flexibility while maintaining the quality of the samples during preservation. Such flexibility includes height-adjustable shelf trays, separate top and bottom chambers with independent temperature settings and separate doors that prevent cold air leakage.

## Natural Refrigerants and Inverter Technology

Hydrocarbon [HC] refrigerants have minimal effect on the environment and are compliant with environmental legislation for climate control. Combined with inverter technology, these refrigerants also provide more efficient cooling without compromising cooling performance, ambient tolerance and recovery speeds following door openings.

# 2 independently controlled temperature chambers

Top and bottom chambers are equipped with 2 independent refrigeration circuits. This enables separate temperature settings and defrosting for the two chambers.



## Height-adjustable shelf trays

The unit features completely height-adjustable shelf trays, accommodating chamber containers of various sizes.





#### Energy efficient performance

Natural refrigerants, compressors and integrated electronics combine to lower operating costs. Freezer operation is managed by effectively balancing temperature performance and energy management.



# Double chamber allows multi-purpose storage

2 completely independent chambers each with its own temperature control make storage possible of samples with different storage temperature requirements. Moreover, independent temperature control allows for defrosting each chamber separately without having to relocate samples.



#### Safe & Secure Sample Storage

To securely preserve the valuable samples, multiple safety features include 2 separate doors that reduce cold in-chamber air leakage when taking samples in/out and high/low abnormal temperature alarms. In addition to a standard door lock, a latch with a padlock is also available.

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# PHC Corporation, Biomedical Division

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#### **Inverter Compressors**

While conventional freezers use a single-speed compressor's on/off cycle, the unit uses inverter compressors that can run at different speeds to maximise cooling performance under different conditions. Combined with hydrocarbon refrigerants, these compressors ensure the most efficient energy use and reduced heat output.

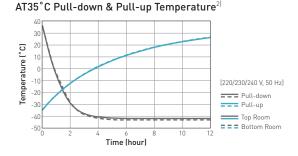
#### **Versatile Alarm Functions**

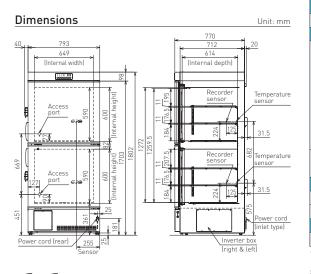
Alarms for high/low temperatures and an error code display with self-diagnostic functions inform users of any abnormalities such as power failures for prompt actions that avoid damaging valuable samples.

#### Easy Disposal of Defrosting Water

Manual defrosting becomes easy using the drain hose that is attached to the main unit (hose usually stowed away when not in use).

#### Performance Data





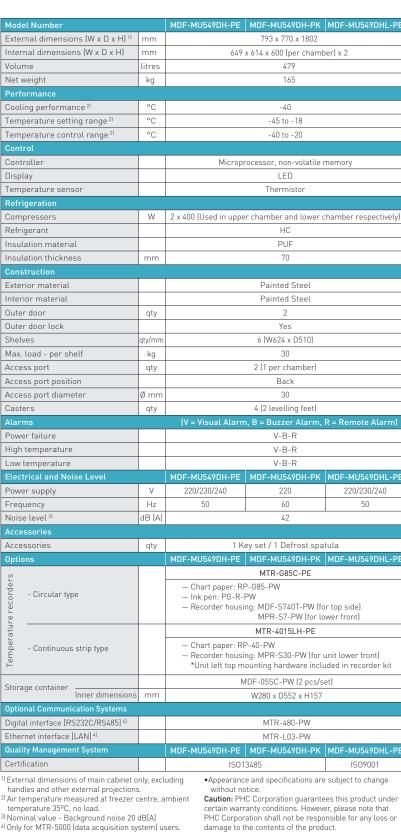


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<sup>3)</sup> Nominal value - Background noise 20 dB[A] <sup>4)</sup> Only for MTR-5000 (data acquisition system) users Freezers, Refrigerators, Incubators, and Drying and Sterilising Equipment for Medical use

The management of the design, development, production and distribution of the above. PHC Corporation, Biomedical Division 1-1-1 Sakada, Oizumi-machi, Ora-gun, Gunma 370-0596, Japan



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