



MDF-U5312-PA

17.0 cu.ft. | 482 L

Biomedical Freezer

-30°C Upright Freezer



MDF-U5312-PA

The MDF-U5312-PA biomedical freezer is designed for short and intermediate term storage of biologicals. The unique double door design provides two independent storage areas in one cabinet, which is ideal for sharing secure freezer storage space with another researcher in your lab or with another lab in your facility.

Uniform Temperature and Manual Defrost

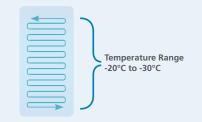
The robust refrigeration system is powered by a purpose-built compressor. Each chamber maintains temperature by utilizing a cold floor/cold shelf evaporator design. A manual defrost means straight line temperature performance plus outstanding uniformity and stability without temperature spikes associated with automatic defrost cycle freezers.

Microprocessor Control and Alarm System

The microprocessor with LED display includes comprehensive setpoint, alarms, monitoring and diagnostic functions. Constant monitoring of ambient and system conditions allows the user to take quick action if any abnormalities were to arise. Self diagnostic error messages notify you to take corrective action.

High Performance Built

Biomedical freezers are purpose built with a biomedical grade refrigeration system, cfc-free foamed-in-place urethane insulation and heavy duty cabinet construction to meet and exceed the high quality standards required by today's laboratories.



Proof of Performance

Ideal storage environment for enzymes, plasma, vaccines, test samples, reagents, test kits and other biologicals.



Intuitive Monitoring

Intuitive control panel for easy programming of operating temperature and alarm settings.



Secure Latch

Integrated and external door locks allow for utmost product protection. One key lock secures both doors. Locking mechanism on each door latch (padlock not included).

31.7 x 30.4 x 70.9 | 804 x 772 x 1802

25.9 x 23.9 x 50.1 | 658 x 607 x 1272

17.0 | 482

295 | 134

320 | 145

2 years parts/labor

MDF-U5312-PA

inches | mm

inches I mm

cu.ft. | liters

lbs. | kg

lbs. I ka

-30°C Upright Freezer



Extra Protection. **Easy Access**

Two insulated outer doors seal firmly against the cabinet to help minimize change in interior temperatures during routine door openings. With a double door design, when one door is opened, only half of the chamber is exposed to lab ambient. Outer door latches feature ergonomic design that allow one-handed access for comfortable operation. Balanced door hinges stop at any angle from 35° to 90° for user convenience.

External Dimensions (W \times D \times H)¹

Internal Dimensions (W x D x H)

Volume

Net Weight

Warranty²⁾

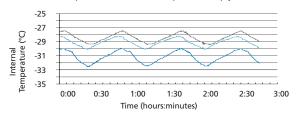
Shipping Weight

Performance

Control inventory with multiple removable storage bins.

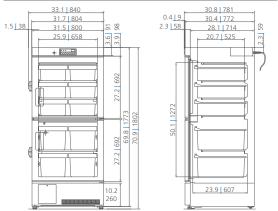
Temperature Uniformity Data

-30°C setpoint at 20°C ambient temperature, empty freezer



Dimensions







3 years compressor parts Cooling Performance 3) -30 Temperature Setting Range °C -10 to -35 in 1°C increments Temperature Control Range °C -20 to -30 in 1°C increments (1) Microprocessor, touchpad data entry Controller qty password protected, memory Display Cabinet Operation Setpoint temperature maintained in both chambers Refrigeration System Single rotary type compressor Compressors W (1) 400 Refrigerant CFC-free R-404A Insulation Material Rigid polyurethane foamed-in-place Fixed shelves, top chamber floor, bottom chamber Evaporator Type Manual (control panel button) Insulation Thickness inches | mm 2.8 | 70 Construction Zinc galvanized steel with acrylic finish Exterior Material Interior Material Styrene resin Outer Door On lower chamber door – locks both doors Hasp (requires optional padlock) qty Top Chamber – Fixed Shelves qty qty Top Chamber – Medium Bins gty | inches | mm 6 | 11.4 x 21 x 5.4 | 290 x 536 x 136 4 | 11.4 x 21 x 9.4 | 290 x 536 x 238 Top Chamber – Large Bins atv | inches | mm Access Port qty Access Port Position Back Wall Access Port Diamete inches I mm 1.1 | 30 Casters 2 swivel (front base) and 2 fixed (rear base) Leveling Feet qty 2 (front of base) Power Failure V-B-R High Temperature V-B-R V-B-R Low Temperature Battery Life Condenser Fan Motor Remote Alarm Contacts Normal open, normal closed, common (rated 30VDC, 2A) Electrical and Noise Leve 115V, 1Ø, NEMA 5-15P, requires NEMA 5-15R receptacle Power Supply Frequency 60 Noise Level 4 dB(A) 40 6", 7 Day Circular MTR-C954 Circular Type Chart Paper 52 charts per box C740306REV pack of 6 R252 Ink Pen

Specifications are subject to change without notice. For latest specification information contact PHC Corporation of North America at info@us.phchd.com. Performance data herein is based on independent testing at time of publication.

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other external projections

²⁾ Current warranty offered at time of printing and may be subject to change

³⁾ Air temperature measured at freezer center, ambient temperature +35°C, no load

⁴⁾ Nominal value - Background noise 20dB[A]