



MDF-DU500ZHA-PA, 115V

FrostLess

Natural Refrigerant -86°C Freezer

18.5 cu.ft. | 525 L



MDF-DU500ZHA-PA









Experience the quality of PHCbi brand ultra-low temperature storage. The MDF-DU500ZHA-PA FrostLess ultra-low freezer ensures the reliability and energy efficiency modern laboratories demand with less frost build-up. The cutting-edge thermal insulation design helps combat frost build-up to reduce freezer stress and preserve high performance.

Frost Resistant Inner Doors

Frost accumulation may cause damage and deterioration of freezer components. The all new thermal insulation design prevents large amounts of frost buildup on the outside of the inner doors of the MDF-DU500ZHA-PA, reducing maintenance requirements. Less frost buildup puts less stress on the outer door and latching mechanism to help preserve optimal performance.



Frost Mitigation

Using the residual heat from the refrigeration system, the perimeter heater under the gasket allows for gentle warmth reducing ice buildup on the door gasket. Less frost build-up reduces manual labor and improves lab workflow.

* Red color used for illustrative purposes.

ENERGY STAR® Certified1

Smart compressors, natural refrigerants and integrated electronics combine to lower your facility's operating costs.

6.6 kWh//day*, steady state at -80°C in a 24°C ambient

5.21 kWh/day*, steady state at -70°C in a 24°C ambient

The use of environmentally friendly, natural refrigerants minimize environmental impact without compromising ultra-low temperature performance, helping achieve sustainability goals.



EZlatch

The EZlatch is our holistic approach to accessing the freezer. This feature is engineered to tolerate frequent door openings and simplify freezer access through one-handed operation.

Security Control and Monitoring

An eye level, door mounted color LCD touchscreen allows full user control while the USB port makes transferring logged data to a PC convenient. All performance attributes are displayed, and an internal temperature log is expressed in graphic form over time. Optional cloud services for remote monitoring are available.



LabSVIFT Cloud Services

Obtain remote monitoring of critical freezer functions including:

- Real time chamber temperature
- Alarm conditions
- Door openings
- Ambient temperature
- Audit trails (optional)

¹ Based on independent third-party testing at time of publication. ENERGY STAR test results for submitted products can be compared for performance across the competitive market. For results see the ENERGY STAR website www.energystar.gov/productfinder/product/ certified-lab-grade-refrigeration/teatis/3417415. See ENERGY STAR Certification Number 4/91176682



MDF-DU500ZHA-PA

FrostLess

-86°C ULT Upright Freezer





FrostLess Model

Legacy Model

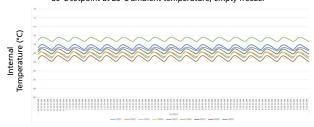
Unit on the left represents reduction in frost build-up compared to our legacy models.

Meet Sustainability and Budget Goals

The use of energy efficient, natural refrigerants combined with an inverter-controlled compressor, lowers operational costs, environmental impact, and total cost of ownership.

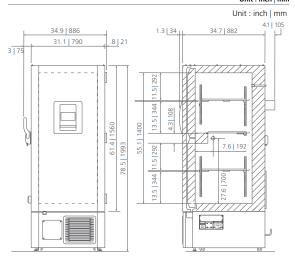
Temperature Uniformity Data:

-80°C setpoint at 23°C ambient temperature, empty freezer



Dimensions

Unit: inch | mm









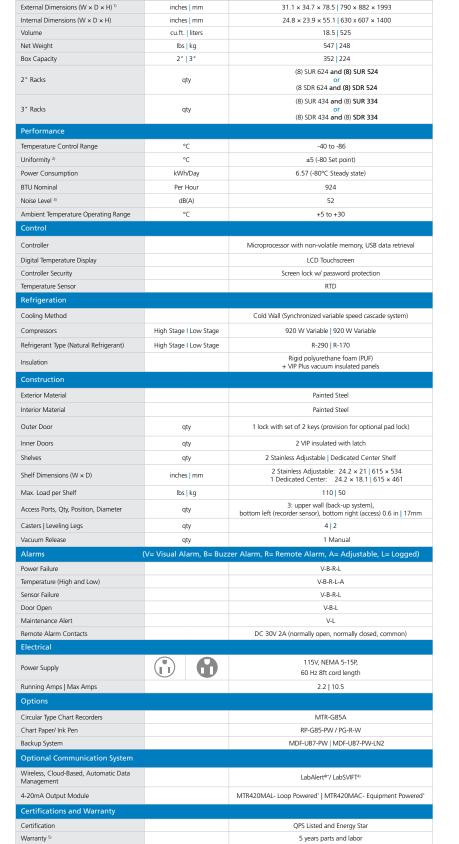












- 1) Exterior dimensions of cabinet excluding handle, rear stand-off brackets and other external projections.
- 2) Factory testing at ambient temperature of 23°C using 17 points.

Thomas No. 24A00G354

- 3) Nominal value, background noise 20 dB(A).
- 4) Requires MTR-480 to operate as Gen 2 on LabSVIFT System.
- 5) Current warranty offered at time of printing and may be subject to change; US and Canada only.



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.



