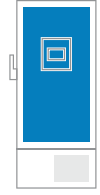


PERFORMANCE by the NUMBERS



18.6 cu.ft.
(528 L)

| 24°C AMBIENT | | | Model MDF-DU502VH-PA 220V | Model MDF-DU502VHA-PA 115V |
|--|---|----------------|--|---|
| | Daily Energy Consumption ¹ (Six Door Openings) kWh/Day | -70°C Setpoint | 5.2 | 5.8 |
| | | -80°C Setpoint | 6.8 | 7.1 |
| | Steady State Energy Consumption kWh/Day | -70°C Setpoint | 5.6 | 6.2 |
| | | -80°C Setpoint | 7.1 | 7.6 |
| ENERGY STAR® MDEC ² kWh/Day/cu.ft. | | | 0.35 | 0.37 |

| | | | | |
|--|---|----------------|--------|--------|
| | Interior Uniformity, ³ Average Steady State | -70°C Setpoint | 2.51°C | 2.44°C |
| | | -80°C Setpoint | 1.38°C | 2.34°C |

| | | | | |
|--|-----------------------------------|----------------|--------|--------|
| | Temperature Recovery ⁴ | -70°C Setpoint | 7 min | 7 min |
| | | -80°C Setpoint | 12 min | 12 min |



THE VIP® ECO
ULTRA-LOW
TEMPERATURE
FREEZER


Life Tested.
Field-Proven.
Without Compromise.




Independently Tested and Documented

The ENERGY STAR Certified VIP ECO Models MDF-DU502VH-PA and MDF-DU502VHA-PA deliver extraordinary energy efficiency per cu.ft. They are designed, life tested and field-proven for uniform, reliable storage of biologicals without compromise. Learn More. www.phcnd.com/us/biomedical/vip-eco.

Compare for Yourself:

| PHCbi MAKE / MODEL | AMBIENT TEMP. | SETPOINT -70°C | SETPOINT -80°C | ADDITIONAL NOTES |
|-----------------------------|--|--------------------|--------------------|--|
| MDF-DU502VH-PA, 220V | Energy Consumption, kWh/Day ¹ (MDEC ² : 0.35 kWh/Day/cu.ft.) | | |  <p>Warranty: PHC Corporation of North America offers 5-year, parts and labor warranty protection on VIP Series Ultra-Low Temperature Freezers (North America only).</p> |
| | 24°C | 5.2 (Daily) | 6.8 (Daily) | |
| | | 5.6 (Steady State) | 7.1 (Steady State) | |
| | Interior Uniformity ³ , Average Steady State | | | |
| | | 2.51 (°C) | 1.38 (°C) | |
| | Temperature Recovery ⁴ | | | |
| | 7 (min.) | 12 (min.) | | |

| PHCbi MAKE / MODEL | AMBIENT TEMP. | SETPOINT -70°C | SETPOINT -80°C | ADDITIONAL NOTES |
|------------------------------|--|--------------------|--------------------|--|
| MDF-DU502VHA-PA, 115V | Energy Consumption, kWh/Day ¹ (MDEC ² : 0.37 kWh/Day/cu.ft.) | | |  <p>Warranty: PHC Corporation of North America offers 5-year, parts and labor warranty protection on VIP Series Ultra-Low Temperature Freezers (North America only).</p> |
| | 24°C | 5.8 (Daily) | 7.1 (Daily) | |
| | | 6.2 (Steady State) | 7.6 (Steady State) | |
| | Interior Uniformity ³ , Average Steady State | | | |
| | | 2.44 (°C) | 2.34 (°C) | |
| | Temperature Recovery ⁴ | | | |
| | 7 (min.) | 12 (min.) | | |

| MAKE / MODEL | AMBIENT TEMP. | SETPOINT -70°C | SETPOINT -80°C | ADDITIONAL NOTES |
|--------------|--|----------------|----------------|------------------|
| | Energy Consumption, kWh/Day ¹ (MDEC ² : ____ kWh/Day/cu.ft.) | | | |
| | | (Daily) | (Daily) | |
| | | (Steady State) | (Steady State) | |
| | Interior Uniformity ³ , Average Steady State | | | |
| | | (°C) | (°C) | |
| | Temperature Recovery ⁴ | | | |
| | (min.) | (min.) | | |

About PHCbi's Data

- Data reflects independent testing to ENERGY STAR specifications based on the variable differential cascade refrigeration system with variable speed compressors, proprietary control algorithms, and natural refrigerants.
- VIP ECO models were tested with standard features only, including inner doors (which increase the door opening duration during the open door testing), air-cooled condensers. No accessories, options or modifications were added to influence test outcomes.



ENERGY STAR Certification Numbers 4788321237 and 4788723268. Learn more about our ENERGY STAR Certified products at www.phchd.com/us/biomedical/energy-star.

¹ Energy consumption per day, EPA Test, Version 1.1, Section 7, Reporting, G2c.
² Maximum daily energy consumption per cu.ft.
³ Overall average for all recorded interior temperature measurements at setpoints of -70°C or -80°C.
⁴ Based on inner door opening time of 15 seconds.



PHC Corporation of North America
 1300 Michael Drive, Suite A, Wood Dale, IL 60191
 Toll Free USA (800) 858-8442, Fax (630) 238-0074
www.phchd.com/us/biomedical

Printed in USA | 01 | 23 | 2019 | OW11667.1 | vF

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.