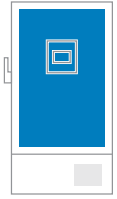


## PERFORMANCE by the NUMBERS



25.7 cu.ft.  
(729 L)

<b>24°C</b> AMBIENT	MODEL MDF-DU702VH-PA EMPTY	<b>-70°C</b> SETPOINT	<b>-80°C</b> SETPOINT	<b>~-75°C</b> COMPOSITE
	ENERGY CONSUMPTION, kWh/DAY <sup>1</sup> MDEC: <sup>2</sup> 0.31 kWh/Day/cu.ft.	[6 OPENINGS] <sup>4</sup> <b>6.72</b> <b>6.19</b> [STEADY STATE]	[6 OPENINGS] <sup>4</sup> <b>9.00</b> <b>8.40</b> [STEADY STATE]	[6 OPENINGS] <sup>4</sup> <b>7.87</b> <b>7.30</b> [STEADY STATE]
	INTERIOR UNIFORMITY, <sup>3</sup> AVERAGE STEADY STATE	<b>1.95°C</b>	<b>2.67°C</b>	
	TEMPERATURE RECOVERY <sup>4</sup>	<b>8 min</b>	<b>8 min</b>	
	BTU/Hr OUTPUT, NOMINAL	<b>810</b>	<b>1109</b>	



THE VIP<sup>®</sup> ECO  
ULTRA-LOW  
TEMPERATURE  
FREEZER


Life Tested.  
Field-Proven.  
Without Compromise.



### Independently Tested and Documented

The ENERGY STAR<sup>®</sup> Certified VIP ECO Model MDF-DU702VH-PA delivers the lowest daily energy usage of any ultra-low temperature freezer in its class. It is designed, life tested and field-proven for reliable storage of biologicals without compromise. Learn More. [www.phchd.com/us/biomedical/vip-eco](http://www.phchd.com/us/biomedical/vip-eco).

## Compare for Yourself:

PHCbi MAKE / MODEL	AMBIENT TEMP.	SETPOINT -70°C	SETPOINT -80°C	ENERGY STAR COMPOSITE ~-75°C	ADDITIONAL NOTES
<b>MDF-DU702VH-PA</b>	Energy Consumption, kWh/Day <sup>1</sup> (MDEC <sup>2</sup> : 0.31 kWh/Day/cu.ft.)				 <p><b>Warranty:</b> 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	6.72 (Daily)	9.00 (Daily)	7.87 (Daily)	
		6.19 (Steady State)	8.4 (Steady State)	7.30 (Steady State)	
	Interior Uniformity <sup>3</sup> , Average Steady State				
		1.95 (°C)	2.67 (°C)		
	Temperature Recovery <sup>4</sup>				
		8 (min.)	8 (min.)		
	BTU / Hr Output, Nominal				
		810	1109		

MAKE / MODEL	AMBIENT TEMP.	SETPOINT -70°C	SETPOINT -80°C	ENERGY STAR COMPOSITE ~-75°C	ADDITIONAL NOTES
	Energy Consumption, kWh/Day <sup>1</sup> (MDEC <sup>2</sup> : ____ kWh/Day/cu.ft.)				
		(Daily)	(Daily)	(Daily)	
		(Steady State)	(Steady State)	(Steady State)	
	Interior Uniformity <sup>3</sup> , Average Steady State				
		(°C)	(°C)		
	Temperature Recovery <sup>4</sup>				
		(min.)	(min.)		
	BTU / Hr Output, Nominal				

MAKE / MODEL	AMBIENT TEMP.	SETPOINT -70°C	SETPOINT -80°C	ENERGY STAR COMPOSITE ~-75°C	ADDITIONAL NOTES
	Energy Consumption, kWh/Day <sup>1</sup> (MDEC <sup>2</sup> : ____ kWh/Day/cu.ft.)				
		(Daily)	(Daily)	(Daily)	
		(Steady State)	(Steady State)	(Steady State)	
	Interior Uniformity <sup>3</sup> , Average Steady State				
		(°C)	(°C)		
	Temperature Recovery <sup>4</sup>				
		(min.)	(min.)		
	BTU / Hr Output, Nominal				

## 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. BTU data is based on internal factory testing.
- 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.
- Detailed test results, including additional tests at ambient temperatures of 20°C and 30°C with and without simulated loads are available.



ENERGY STAR Certification Number 4787624501. Learn more about our ENERGY STAR Certified products at [www.phchd.com/us/biomedical/energy-star](http://www.phchd.com/us/biomedical/energy-star)

<sup>1</sup> Energy consumption per day, EPA Test, Version 1.1, Section 7, Reporting, G2 c.

<sup>2</sup> Maximum daily energy consumption per cu.ft.

<sup>3</sup> Overall average for all recorded interior temperature measurements at setpoints of -70°C or -80°C.

<sup>4</sup> 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](http://www.phchd.com/us/biomedical)

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