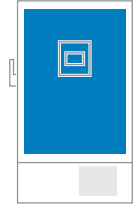


PERFORMANCE by the NUMBERS



29.8 cu.ft.
(845 L)

24°C AMBIENT			Model MDF-DU901VHA-PA 115V
	Daily Energy Consumption¹ (Six Door Openings) kWh/Day	-70°C Setpoint	7.6
		-80°C Setpoint	10.1
	Steady State Energy Consumption kWh/Day	-70°C Setpoint	7.2
		-80°C Setpoint	9.5
	ENERGY STAR® MDEC² kWh/Day/cu.ft.		
	Interior Uniformity,³ Average Steady State	-70°C Setpoint	±2.37°C
		-80°C Setpoint	±2.17°C
	Temperature Recovery⁴	-70°C Setpoint	10 min
		-80°C Setpoint	18 min
	BTU/Hr Output, Nominal	-70°C Setpoint	1023
		-80°C Setpoint	1350



THE VIP® ECO
ULTRA-LOW
TEMPERATURE
FREEZER

Life Tested.
Field-Proven.
Without Compromise.




Independently Tested and Documented

Overall performance of the ENERGY STAR Certified VIP ECO Model MDF-DU901VHA-PA has been independently confirmed by third-party agencies. Data published herein is accurate at time of publication. Development of this high-volume ultra-low temperature freezer for operation on standard 115V, AC electrical service illustrates the energy-saving properties of our variable speed differential cascade system using natural refrigerants. Key performance metrics such as temperature recovery after door openings have been acquired in life testing subject to real-world conditions.

Learn More. www.phchd.com/us/biomedical/vip-eco.

Compare for Yourself:

PHCbi MAKE / MODEL	AMBIENT TEMP.	SETPOINT -70°C	SETPOINT -80°C	ADDITIONAL NOTES
MDF-DU901VHA-PA, 115V	Energy Consumption, kWh/Day ¹ (MDEC ±: 0.30 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	7.6 (Daily)	10.1 (Daily)	
		7.2 (Steady State)	9.5 (Steady State)	
	Interior Uniformity ² , Average Steady State			
		±2.37 (°C)	±2.17 (°C)	
	Temperature Recovery ⁴			
		10 (min.)	18 (min.)	
	BTU / Hr Output, Nominal			
	1023	1350		

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

About Our Testing

- 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 4789267856.
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

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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.