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Life Science Innovator Since <mark>1966</mark>

PERFORMANCE by NUMBERS

24°C AMBIE	INT	Model MDF-DU703VHA-PA 115V	Model MDF-DU702VHA-PA 115V	Model MDF-DU700ZHA-PA 115V	
ب نيک	Daily Energy Consumption ¹	-70°C Setpoint	4.9	6.3	6.5
	(Six Door Openings) kWh/Day	-80°C Setpoint	6.01	8.8	8.35
	Steady State Energy Consumption	-70°C Setpoint	4.5	5.9	6.2
	kWh/Day	-80°C Setpoint	5.4	8.2	7.9
	ENERGY STAR [®] M kWh/Day/cu.ft.	0.21	0.29	0.29	
	Interior Uniformity, ³ Average Steady State	-70°C	2.000	2.000	
		Setpoint	±2.0°C	±3.0°C	±3.0°C
		-80°C Setpoint	±2.0°C	±3.0°C	±3.0°C
Ō	Temperature Recovery ⁴	-70°C Setpoint	10 min	8 min	8 min
		-80°C Setpoint	8 min	8 min	8 min
111	BTU/Hr Output,	-70°C Setpoint	640	838	791
	Nominal	-80°C Setpoint	768	1165	1118
energy	Rigorously Tested Performance Without Compron	VECCO			

Independently Tested and Documented

The ENERGY STAR Certified VIP ECO SMART, VIP ECO, and FrostLess models deliver ENERGY STAR leading energy efficiency as tested by 3rd party testing agency. They are designed and rigorously tested for reliable storage of biologicals without compromise.

VIP® ECO SMART

VIP[®] ECO

Frostl ess

Learn More. www.phchd.com/us/biomedical/ultra-low-temperature-freezers

PHC Corporation of North America

Compare for Yourself:



PHCbi MAKE / MODEL	AMBIENT TEMP.	SETPOINT -70°C	SETPOINT -80°C	ADDITIONAL NOTES	
MDF-DU702VHA-PA, 115V	Energy Consumption, kWh/Day ¹ (MDEC ² : 0.29 kWh/Day/cu.ft.)				Warranty:
	24°C	6.3 (Daily)	8.8 (Daily)	PHC Corpor North Amer	PHC Corporation of
		5.9 (Steady State)	8.2 (Steady State)		North America offers 5-year, parts and labor
	Interior Uniformity ³ , Average Steady State			WARRANTY	warranty protection on VIP ECO Series
		3.0 (°⊂)	3.0 (°C)		Ultra-Low Temperature
	Temperature Recovery ⁴				Freezers (United States only).
		8 (min.)	8 (min.)		
	BTU/Hr Output, Nominal				
		838	1165		



About This 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.
- PHCbi brand 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 4790599804, 4788723268, and 4790998194. 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. Based on single unit testing at 3rd party testing lab.
- ⁴⁾ Based on inner door opening time of 15 seconds. Recovery defined as majority of probes within 5 degrees of set temperature.



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.