

PERFORMANCE LINE NUMBERS

24°C AMBIENT			Model MDF-DU703VHA-PA	Model MDF-DU702VHA-PA	Model MDF-DU700ZHA-PA
***	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	
		-70°C Setpoint	±2.0°C	±3.0°C	±3.0°C
	Interior Uniformity, ³ Average Steady State	-80°C Setpoint	±2.0°C	±3.0°C	±3.0°C
	Temperature	-70°C Setpoint	10 min	8 min	8 min
Control	Recovery ⁴	-80°C Setpoint	8 min	8 min	8 min
)))		-70°C Setpoint	640	838	791
	BTU/Hr Output,	Serboint			



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.

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

Compare for Yourself:

PHCbi MAKE / MODEL	AMBIENT TEMP.	SETPOINT -70°C	SETPOINT -80°C	ADDITIONAL NOTES	
MDF-DU703VH-PA, 115V	Energy Consumption, kWh/Day1 (MDEC 2: 0.31 kWh/Day/cu.ft.)				Warranty:
	24°C	4.9 (Daily)	6.01 (Daily)	PHC Corporation North America	PHC Corporation of
		4.5 (Steady State)	5.4 (Steady State)		North America offers 5-year, parts and labor
	Interior Uniformity ³ , Average Steady State			WARRANTY	warranty protection on VIP ECO SMART
		3.0 (°⊂)	3.0 (°€)	series Ultra-Low	
	Temperature Recovery ⁴				Temperature Freezers (United States only).
		10 (min.)	8 (min.)		,,
		BTU/Hr Output, No			
		640	768		

PHCbi MAKE / MODEL	AMBIENT TEMP.	SETPOINT -70°C	SETPOINT -80°C	ADDITIONAL NOTES	
MDF-DU702VHA-PA,	Energy Consumption, kWh/Day¹ (MDEC ² : 0.29 kWh/Day/cu.ft.)				Warranty:
115V	24°C	6.3 (Daily)	8.8 (Daily)	PHC Corporation North America o	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 (°⊂)		Ultra-Low Temperature
	Temperature Recovery ⁴				Freezers (United States only).
		8 (min.)	8 (min.)	,,	,
	BTU/Hr Output, Nominal				
		838	1165		

PHCbi MAKE / MODEL	AMBIENT TEMP.	SETPOINT -70°C	SETPOINT -80°C	ADDITIONAL NOTES	
MDF-DU700ZHA-PA, 115V	Energy Cor	Energy Consumption, kWh/Day¹ (MDEC ²: 0.29 kWh/Day/cu.ft.)			Warranty:
	24°C	6.5 (Daily)	8.35 (Daily)	PHC Corporation North America of	PHC Corporation of
		6.2 (Steady State)	7.9 (Steady State)		North America offers 5-year, parts and labor
	Interior Uniformity ³ , Average Steady State			WARRANTY	warranty protection
		3.0 (°C)	3.25 (°C)		on FrostLess Series Ultra-Low Temperature
	Temperature Recovery⁴				Freezers (United States only).
		8 (min.)	8 (min.)	omy).	omy,
	BTU/Hr Output, Nominal				
		791	1118		

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.



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