Life Science

Since 1966







MDF-DU702VH-PA ENERGY STAR® Certified Upright Ultra-Low Temperature Freezer







Temperature Range -40°C to -86°C

General Specifications		
Volume	cu.ft. liters	25.7 729
Temperature Control Range	°C	-40 to -86
External Dimensions (W \times D \times H) 1)	inches mm	40.6 × 36.8 × 78.5 1030 × 935 × 1993
Internal Dimensions (W \times D \times H)	inches mm	34.3 × 23.6 × 55.1 870 × 600 × 1400
Footprint	ft² m²	9.78 .91
Stainless Steel Shelf (adjustable)	qty	3
Power Supply		220V, 1Ø, NEMA 6-15P, requires NEMA 6-15R receptacle
Factory Certification		ISO9001, ISO13485, ISO14001
NRTL Testing Lab Mark		QPS Listed
Net Weight	lbs kg	613 278
Noise Level ²⁾	dB(A)	46

Storage Specifications		
Racks per Freezer	qty	24
Racks per Shelf	qty	6
2" Boxes per Freezer	qty	576
3" Boxes per Freezer	qty	384



²⁾ Actual value, background noise 20 dB(A).

Multiple options are available for racking including side opening and front loading trays. The information provided is for the most common racks. We also offer double height racks and other configurations, as wells as racking for cryoboxes and other containers. Please speak to your local representative for more information.

Refrigeration	
Refrigeration System	Synchronized variable differential cascade system
Compressors	(2) 750 watt variable speed compressors (completely enclosed reciprocating type)
Condenser	High-stage: fin and tube type Low-stage: shell and tube type
Evaporator	High-stage: cascade type Low-stage: tube on sheet type (cold wall)
Refrigerant	High-stage: R-290 natural refrigerant Low-stage: R-170 natural refrigerant, trace natural R-601

Cabinet Construction		
Insulation	Rigid polyurethane foamed-in-place + VIP Plus® vacuum insulated panels: 3.1" (80 mm) thick	
Exterior Material	Painted electrogalvanized steel	
Interior Material	Powder coated electrogalvanized steel	
Outer Door	Painted electrogalvanized steel exterior, Rigid polyurethane foamed-in-place + VIP Plus® vacuum insulated panels with EZlatch, key lock, will accommodate padlock	
Vacuum Relief	2: one in door (auto release), one in lower left (manual release)	
Inner Doors	2 (insulated, ABS, stainless steel frames, positive latches)	





Model MDF-DU702VH-PA shown with additional shelf

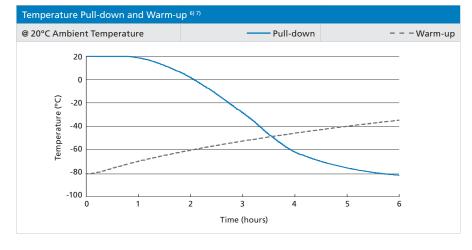


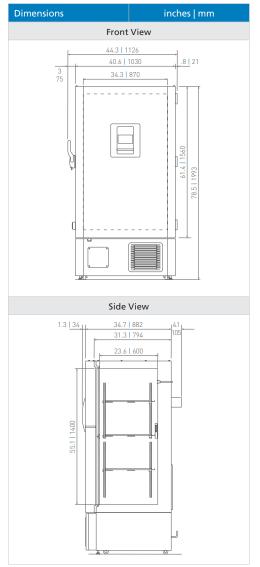
ENERGY STAR - Certification Number 4787624501

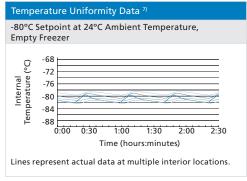


- 1) Energy consumption per day, EPA Test, Version 1.1, Section 7, Reporting, G2c.
- $^{2)}$ Based on inner door opening time of 15 seconds per ENERGY STAR testing protocol to $\pm 5^{\circ}$ C of setpoint.
- 3) Calculation of ENERGY STAR based on performance of setpoints -70°C or -80°C.
- 4) Overall average for all recorded interior temperature measurements at setpoints of -70°C or -80°C.
- 5) Temperature recovery to ±5°C of setpoint.
- 6) Based on direct factory testing.

Based on independent, third-party testing at time of publication. ENERGY STAR test results for submitted products can be compared for performance across the competitive market. Results are published on the ENERGY STAR website at www.energystar.gov. See Certification Number 4787624501. Detailed test results are available, including additional tests at ambient temperature of 20°C and 30°C with and without simulated loads.







⁷⁾ Data points available upon request.

Specifications are subject to change without notice. For latest specification information contact PHC Corporation of North America at info@us.phchd.com.



