

PH-ABT-NSF-23G

Product Description

These cutting-edge pharmacy refrigerators are certified in accordance with the NSF/ANSI 456 Standard for Vaccine Storage. With this certification, units protect pharmaceuticals at optimal temperatures, preventing waste and allowing for peak delivery. Our Premier line includes premium features such as extensive alarm systems and digital touch pad displays.

These glass door refrigerators utilize microprocessor controllers and feature temperature alarms, remote alarm contacts, and probe access ports with included probes. Units run on natural, hydrocarbon refrigerant for environmental health and energy efficiency.

General Description and Application Single Glass Door Pharmacy/Vaccine Upright Refrigerator Description Indoor use only, +18°C to +26°C (+65°F to +78°F), <70% RH Operational environment 23 cu. ft. gross volume Storage capacity One swing glass door, self-closing, right hinged, non-reversible, magnetic sealed gasket, keyed Door Seven shelves (six adjustable/one fixed) with guard rail on back 3 1/2" Swivel Casters(two locking) Mounting Shielded, switched LED lighting, full coverage, balanced spectrum Interior lighting Forced Air technology, patent pending Airflow management Rear wall port (3/4") dia. External probe access Insulation Cabinet is foamed-in-place with EPA compliant high density urethane foam Exterior materials White powder coated steel Pyxis®, Omnicell® and AcuDose RX® compatible Access control Two (2) years parts and labor warranty, excluding display probe calibration Five (5) years compressor warranty Compressor warranty Product Weight 342 Shipping Weight Rated Amperage Power Plug/Power Cord NEMA 5-15 plug, 8 to 10 ft typical, conforms to UL471 requirements, Vaccine Storage power cord warning label 110-120V AC: 15 A (minimum) Facility Electrical Requirement Agency Listing and Certification Certified with the temperature performance requirements as defined in the NSF/ANSI 456 Standard for Vaccine Storage for all testing scenarios. UL, C-UL, ETL, C-ETL listed and certified to UL471 standard, hydrocarbon refrigerant safety. Energy Star Certified Included Accessories Temperature monitor device (TMD) complies with the current CDC guidelines, with 3 years certification of calibration, "buffered" probe in the product simulated solution, min/max memory, field installable, and visual & audible temp alarm Pharmacy refrigerator/freezer toolkit and temperature logs

Refrigeration System	
Compressor	Hermetic, high performance
Refrigerant	EPA SNAP compliant, R290, propane
Condenser	Fin and tube design, high efficiency fan
Evaporator	Fin and tube design, high efficiency fan
Defrost	Cycle optimized, zero energy

Performance	
Uniformity ¹ (Cabinet air)	+/- 1.0°C
Stability ² (Cabinet air)	+/- 1.1°C
Maximum temperature variation (Cabinet air)	+/-1.4°C
Temperature rise after 8 sec door openings	Temperature did not exceed 6.7°C at any probe for all required NSF/ANSI 456 testing protocols ^a
Recovery after 3 min door opening	All probes recover to under 8°C within 6.5 min.
Energy consumption	1.32 KWh/day ⁴
Average heat rejection	2.21 KWh/day (315 BTU/h) ⁴
Noise pressure level (dBA)	49 or less installed
Pull down time to 4°C nominal operating	30 min
temp	

Controller, Configuration, Alarms and Monitoring					
Controller technology	Parametric, microprocessor, LED display with 0.1°C resolution				
Display technology	NSF/ANSI 456 Standard for Vaccine Storage compliant digital temperature display and alarm module with battery back-up, F/C switchable.				
Temperature setpoint range	1°C to 10°C (Controller settings must remain unaltered to ensure thermal performance compliant with NSF/ANSI 456 Standard for Vaccine Storage requirements)				
Display probe	Calibrated, stainless steel				
External alarm connection	State switching remote alarm contacts				
	Visual and audible indicators				
Alarms	High / Low temperature, compliant with alarm requirements defined in the NSF/ANSI 456 Standard for Vaccine Storage				
Simulator ballast	Glass bead thermal media				

Performance data acquired at 22°C ambient, using NSF/ANSI 456 compliant validation ballast probes, empty chamber, during stabilized steady state operation and a DAQ sampling rate of one measurement every 10 seconds

- 1 Uniformity is defined as the maximum variance in temperature across all probes at any point in time over the testing period
- 2 Stability is defined as the maximum variance in temperature experienced by any single probe over the testing period and the stability of the stability of
- 3 Temperature performance for all loaded and unloaded door opening protocols, all alarm, controller and probe requirements as defined in the NSF/ANSI 456 standard for vaccine storage
- 4 Data per Energy Star test results or equivalent testing and calculation. Heat rejection based on daily averages, not continuous operation. Performance exceeds Energy Star requirements.

Product Data Sheet

Upright 23 cu. ft. Glass Door Refrigerator, High Performance - Certified to NSF/ANSI 456 Standard for Vaccine Storage

Certification







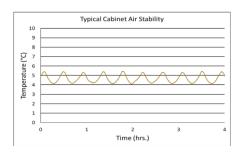


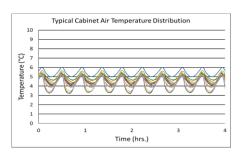
*-one or more of these certifications may apply to this unit.

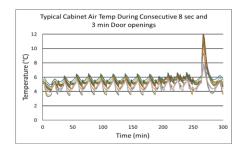
Temperature Probes							
Probe	Ave	Min	Max				
1	4.1	3.2	5.4				
2	4.6	4.2	5.2				
3	4.7 4.3		5.1				
4	4.2	4.2 3.3 5					
5	4.5	4.0	5.1				
6	5.0	4.5	5.7				
7	4.6	4.1	5.4				
8	4.7	4.2	5.4				
9	4.1	3.2	5.5				
10	4.7	4.1	5.5				
11	5.4	5.0	6.0				
12	4.9	4.6	5.3				
13	4.4	3.8	5.1				
14	4.5	3.8	5.5				
15	4.2	3.4	5.3				



Temperature Charts









Product Data Sheet

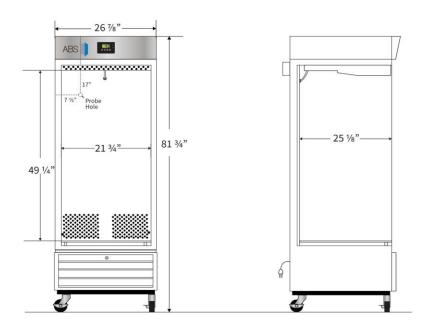
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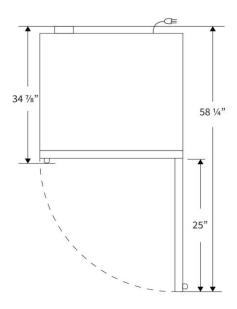
Images





Dimensions								
	Width	Depth	Height	Door Swing	Total open Depth			
Exterior	26 7/8"	34 7/8"	81 3/4"	25"	58 1/4"			
Interior	21 3/4"	25 1/8"	49 1/4"					





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