

PH-ABT-NSF-S23G

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 Standard line provides multi-functional features in a cost-effective design.

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 Storage capacity 23 cu. ft. gross volume Door One swing glass door, self-closing, right hinged, non-reversible, magnetic sealed gasket, keyed lock Five shelves (four adjustable/one fixed) with guard rail on back Shelves 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 Cabinet is foamed-in-place with EPA compliant high density urethane foam Insulation White powder coated steel Exterior materials Pyxis®, Omnicell® and AcuDose RX® compatible One (1) year parts and labor warranty, excluding display probe calibration General warranty Five(5) years compressor warranty Compressor warranty 302 Product Weight 342 Shipping Weight Rated Amperage NEMA 5-15 plug, 8 to 10 ft typical, conforms to UL471 requirements. Vaccine Storage power Power Plug/Power Cord cord-warning Energy Star Certified Agency Listing and Certification Compliant with the temperature performance requirements as defined in the NSF 456 Standard for Vaccine Storage for all testing scenarios. UL, C-UL, ETL, C-ETL listed and certified to UL471 standard, hydrocarbon refrigerant safety. Included Accessories 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 temp	30 min

Controller, Configuration, Alarms and Monitoring					
Controller technology	Parametric, microprocessor, LED display with 0.1°C resolution				
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)				
	compliant with NSF/ANSI 450 Standard for Vaccine Storage requirements)				
Calibration	Calibrated using a NIST traceable device, certificate included				
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
- 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

Certifications







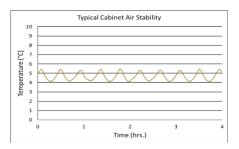


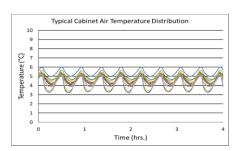
*-one or more of these certifications may apply to this unit.

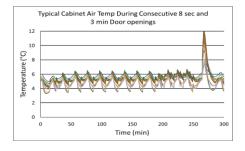
Temperature Probes					
Probe	Ave	Min	Max		
1	4.1	3.2	5.4		
2	4.6	4.2	5.2		
3	4.7	4.3	5.1		
4	4.2	3.3	5.5		
5	4.5	4.0	5.1		
6	5.0	4.5	5.7		
7	4.6	4.1	5.4		
8	4.7	4.2	5.4		
9	4.1	3.2	5.5		
10	4.7	4.1	5.5		
11	5.4	5.0	6.0		
12	4.9	4.6	5.3		
13	4.4	3.8	5.1		
14	4.5	3.8	5.5		
15	4.2	3.4	5.3		



Temperature Charts









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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"			

