

PH-ABT-NSF-S23S

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 solid 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 Solid 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 solid 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 Insulation Cabinet is foamed-in-place with EPA compliant high density urethane foam White powder coated steel Pyxis®, Omnicell® and AcuDose RX® compatible Access control One (1) year parts and labor warranty, excluding display probe calibration Five (5) years compressor warranty Compressor warranty Product Weight 256 Shipping Weight Rated Amperage Power Plug/Power Cord NEMA 5-15 plug, 8 to 10 ft typical, conforms to UL471 requirements, Vaccine Storage 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 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 protocols³
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	ation, 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)				
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 \ across \ all \ probes \ at \ any \ point \ in \ time \ over \ the \ testing \ period \ across \ all \ probes \ at \ any \ point \ in \ time \ over \ the \ testing \ period \ across \ all \ probes \ at \ any \ point \ in \ time \ over \ the \ testing \ period \ across \ all \ probes \ at \ any \ point \ in \ time \ over \ the \ testing \ period \ across \$
- 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. Solid Door Refrigerator, High Performance - Certified to NSF/ANSI 456 Standard for Vaccine Storage

Certification



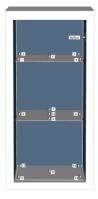




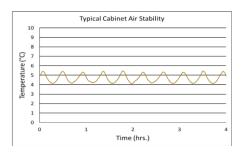


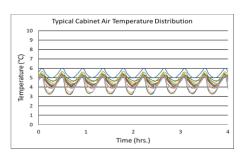
*-one or more of these certifications may apply to this unit.

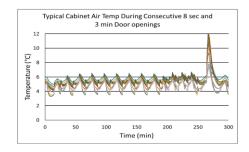
Temperature Probes						
Probe	Ave Min		Max			
1	4.1	3.2	5.4			
2	4.6	4.2	5.2			
3	4.7	4.3	5.1			
4	4.2	3.3	5.5			
5	4.5	4.0	5.1			
6	5.0	4.5	5.7			
7	4.6	4.1	5.4			
8	4.7	4.2	5.4			
9	4.1	3.2	5.5			
10	4.7	4.1	5.5			
11	5.4	5.0	6.0			
12	4.9	4.6	5.3			
13	4.4	3.8	5.1			
14	4.5	3.8	5.5			
15	4.2	3.4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



Temperature Charts









Product Data Sheet

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

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"					

