

PH-ABT-NSF-23G

Product Description

These premier upright refrigerators are designed in accordance with the NSF/ANSI 456 Standard for Vaccine Storage. Units protect pharmaceuticals at optimal temperatures, preventing waste and allowing for peak delivery.

These glass door refrigerators utilize microprocessor controllers and feature temperature alarms, remote alarm contacts, LED interior lighting, and probe access ports. American Biotech Supply Vaccine Storage Refrigerators utilize HFC-free refrigerant for environmental health and energy efficiency.

General Description and Application Single Glass Door Pharmacy/Vaccine Upright Refrigerator Description Operational environment Indoor use only, +18°C to +26°C (+65°F to +78°F), <70% RH 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 Shelves

3 1/2" Swivel Castors(two locking) Mounting

Interior lighting Shielded, switched LED lighting, full coverage, balanced spectrum

Forced Air technology, patent pending Airflow management

External probe access Rear wall port (3/4") dia.

Cabinet is foamed-in-place with EPA compliant high density urethane foam Insulation

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 General warranty

Five (5) years compressor warranty Compressor warranty

302 lbs. **Product Weight** 342 lbs. **Shipping Weight** 3 Amps Rated Amperage

NEMA 5-15 plug, 8 to 10 ft typical, conforms to UL471 requirements, Vaccine Storage power cord Power Plug/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.

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. F/C switchable, field installable, and visual & audible temp alarm

Pharmacy refrigerator/freezer toolkit and temperature logs

Refrigeration System

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

Performance |

Uniformity¹ (Cabinet air) +/- 1.0°C +/- 1.1°C Stability² (Cabinet air) +/-1.4°C Maximum temperature variation (Cabinet

Temperature rise after 8 sec door Temperature did not exceed 6.7°C at any probe for all required NSF/ANSI 456 testing protocols³

openings

Noise pressure level (dBA)

Recovery after 3 min door opening

Energy consumption Average heat rejection

Pull down time to 4°C nominal operating

temp

All probes recover to under 8°C within 6.5 min. 1.32 KWh/day4

2.21 KWh/day (315 BTU/h)4

49 or less installed

30 min

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

High / Low temperature, compliant with alarm requirements defined in the NSF/ANSI 456 **Alarms**

Standard for Vaccine Storage

Simulator ballast 20 ml bottle, 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

Certifications

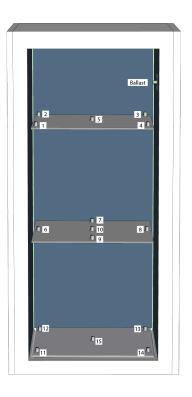




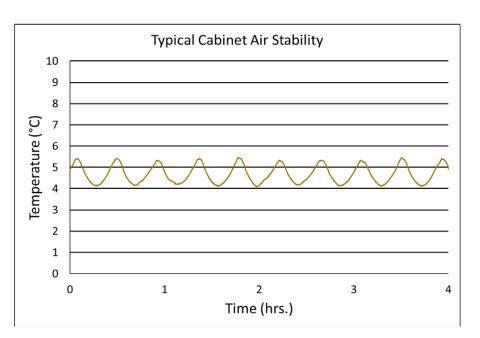


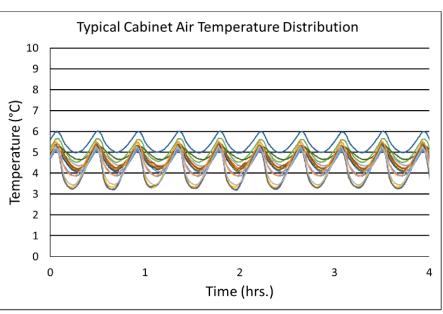
*-one or more of these certifications may apply to this unit.

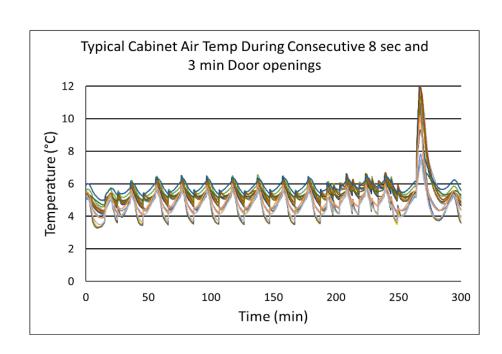
Temperature Probes							
Probe	Ave Min		Max				
1	4.1	3.2	5.4				
2	4.6	4.2	5.2				
3	4.7	4.3	5.1				
4	4.2	3.3	5.5				
5	4.5	4.0	5.1				
6	5.0	4.5	5.7				
7	4.6	4.1	5.4				
8	4.7	4.2	5.4				
9	4.1	3.2	5.5				
10	4.7	4.1	5.5				
11	5.4	5.0	6.0				
12	4.9	4.6	5.3				
13	4.4	3.8	5.1				
14	4.5	3.8	5.5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

