

PH-ABT-NSF-S23G

Product Description

These standard 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 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

lock

Five shelves (four adjustable/one fixed) with guard rail on back **Shelves**

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

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

Airflow management Forced Air technology, patent pending

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

One (1) year parts and labor warranty, excluding display probe calibration General warranty

Compressor warranty Five (5) years compressor warranty

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

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

110-120V AC: 15 A (minimum) Facility Electrical Requirement

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.

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

Included Accessories

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 Cycle optimized, zero energy Defrost

Performance

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

(Cabinet air)

Temperature rise after an 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/day4 2.21 KWh/day (315 BTU/h)4

Average heat rejection Noise pressure level (dBA)

Temperature setpoint range

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

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

20 ml bottle, glass bead thermal media Simulator ballast

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

Intertek

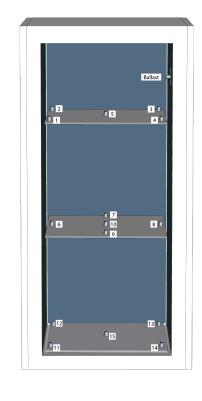




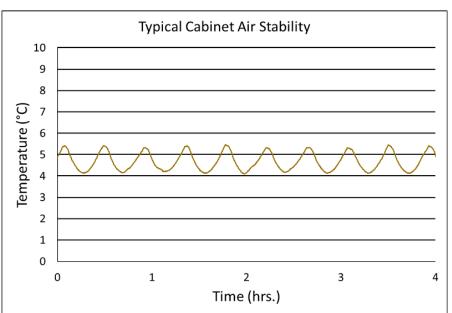


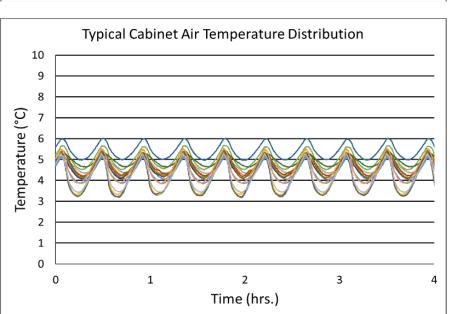
*-one or more of these certifications may apply to this unit.

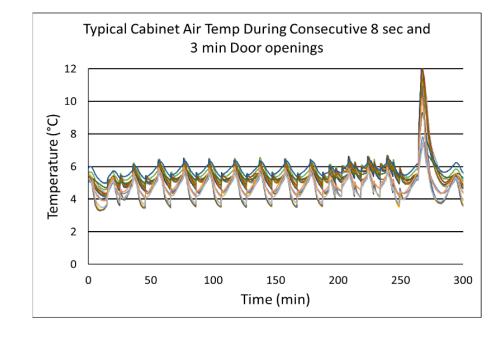
| Temperature Probes | | | | | | | | |
|--------------------|-----|-----|-----|--|--|--|--|--|
| Probe | Ave | Min | Max | | | | | |
| 1 | 4.1 | 3.2 | 5.4 | | | | | |
| 2 | 4.6 | 4.2 | 5.2 | | | | | |
| 3 | 4.7 | 4.3 | 5.1 | | | | | |
| 4 | 4.2 | 3.3 | 5.5 | | | | | |
| 5 | 4.5 | 4.0 | 5.1 | | | | | |
| 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

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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" | | | | |

