

### **Product Data Sheet**

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

## PH-BSI-NSF-23S

#### **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 premium line includes features such as extensive alarm systems and digital touch pad displays.

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				
Description	Single Solid Door Pharmacy/Vaccine Upright Refrigerator			
Operational environment	Indoor use only, +18°C to +26°C (+65°F to +78°F), <70% RH			
Storage capacity	23 cu. ft. gross volume			
Door	One swing solid door, self-closing, right hinged, non-reversible, magnetic sealed gasket, keyed lock			
Shelves	Seven shelves (six adjustable/one fixed) with guard rail on back			
Mounting	3 1/2" Swivel Casters (two locking)			
Interior lighting	Shielded, switched LED lighting, full coverage, balanced spectrum			
Airflow management	Forced Air technology, patent pending			
External probe access	Rear wall port (3/4") dia.			
Insulation	Cabinet is foamed-in-place with EPA compliant high density urethane foam			
Exterior materials	White powder coated steel			
Access control	Pyxis®, Omnicell® and AcuDose RX® compatible			
General warranty	Two (2) years parts and labor warranty, excluding display probe calibration			
Compressor warranty	Five (5) years compressor warranty			
Product Weight	216			
Shipping Weight	256			
Rated Amperage	3			
Power Plug/Power Cord	NEMA 5-15 plug, 8 to 10 ft typical, conforms to UL471 requirements, Vaccine Storage power cord warning label			
Facility Electrical Requirement	110-120V AC: 15 A (minimum)			
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, field installable, and visual & audible temp alarm			

Pharmacy refrigerator/freezer toolkit and temperature logs

Hermetic, high performance

Cycle optimized, zero energy

EPA SNAP compliant, R290, propane

Fin and tube design, high efficiency fan Fin and tube design, high efficiency fan

#### **Refrigeration System** Compressor

Refrigerant Condenser Evaporator Defrost

Performance Uniformity<sup>1</sup> (Cabinet air)

(Cabinet air)

openings

temp

+/- 1.0°C Stability<sup>2</sup> (Cabinet air) +/- 1.1°C Maximum temperature variation +/-1.4°C Temperature rise after 8 sec door Temperature did not exceed 6.7°C at any probe for all required NSF/ANSI 456 testing protocols<sup>3</sup> Recovery after 3 min door opening All probes recover to under 8°C within 6.5 min. 1.32 KWh/dav<sup>4</sup> Energy consumption 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 mir

#### Controller, Configuration, Alarms and Monitoring Parametric, microprocessor, LED display with 0.1°C resolution Controller technology 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) Calibrated, stainless steel Display probe State switching remote alarm contacts External alarm connection 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

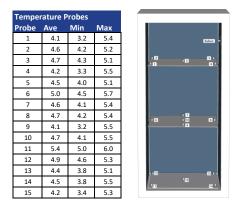
2 - Stability is defined as the maximum variance in temperature experienced by any single probe over the testing period

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

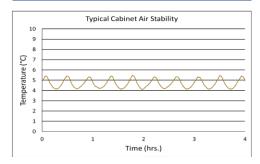
4 - Data per Energy Star test results or equivalent testing and calculation. Heat rejection based on daily averages, not continuous operation. Performance exceeds Energy Star requirements.

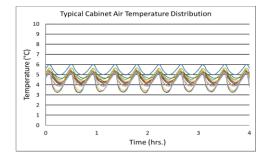
# Certifications Intertek

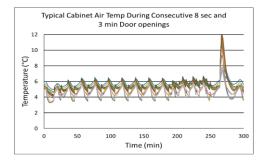
\*-one or more of these certifications may apply to this unit.



## **Temperature Charts**







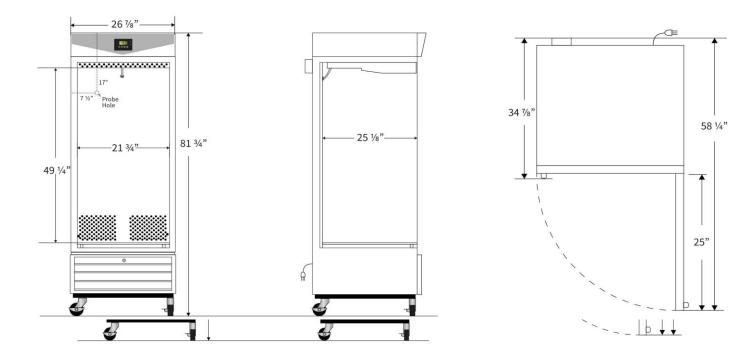


## Product Data Sheet

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



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"		



Contact Phone Email *Rev\_10042022*