

## PH-ABT-NSF-S16S

#### **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 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

16 cu. ft. gross volume Storage capacity

One swing solid door, self-closing, right hinged, non-reversible, magnetic sealed gasket, keyed Door

lock

Four shelves (three adjustable/one fixed) with guard rail on back Shelves

3 1/2" Swivel Casters(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

White powder coated steel Exterior materials

Pyxis®, Omnicell® and AcuDose RX® compatible Access control

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

Five (5) years compressor warranty Compressor warranty

243 lbs. **Product Weight** 283 lbs. **Shipping Weight** Rated Amperage 3 Amps

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. Energy Star Certified

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

## Refrigeration System

**Included Accessories** 

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

## Performance

Uniformity<sup>1</sup> (Cabinet air) +/- 0.9°C Stability<sup>2</sup> (Cabinet air) +/- 1.0°C Maximum temperature variation +/-1.2°C

(Cabinet air)

Temperature did not exceed 6.5°C at any probe for all required NSF/ANSI 456 testing Temperature rise after 8 sec door

protocols<sup>3</sup> openings

All probes recover to under 8°C within 4.3 min. Recovery after 3 min door opening

1.25 KWh/day<sup>4</sup> **Energy consumption** 

1.97 KWh/day (280BTU/h)4 Average heat rejection Noise pressure level (dBA) 48 or less installed

Pull down time to 4°C nominal operating 30 min

temp

# **Controller, Configuration, Alarms and Monitoring**

Temperature setpoint range

Parametric, microprocessor, LED display with 0.1°C resolution Controller technology

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

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

#### **Certifications**

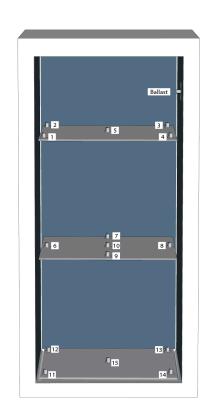




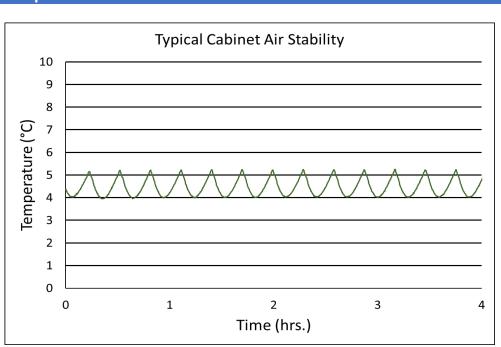


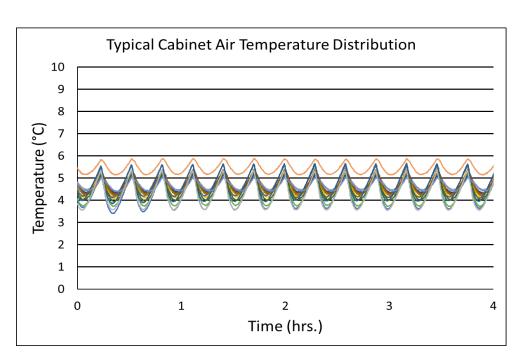
\*-one or more of these certifications may apply to this unit.

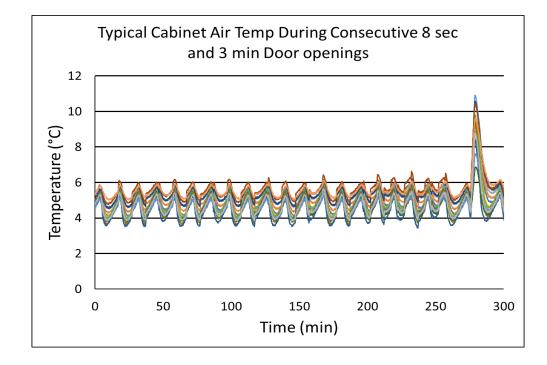
Temperature Probes									
Probe	Ave	Min	Max						
1	4.3	3.4	5.4						
2	4.6	4.2	5.2						
3	4.7	4.4	5.2						
4	4.6	4.1	5.4						
5	4.6	4.2	5.3						
6	4.3	3.7	5.3						
7	4.6	4.3	5.2						
8	4.7	4.3	5.4						
9	4.7	4.1	5.6						
10	4.6	4.2	5.3						
11	4.6	3.8	5.7						
12	4.5	3.9	5.3						
13	4.7	4.4	5.1						
14	5.4	5.1	5.9						
15	4.3	3.5	5.4						



#### **Temperature Charts**









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## **Images**





	Dimensions					
		Width	Depth	Height	Door Swing	Total open Depth
1	Exterior	25"	26"	79"	23 1/8"	49 1/4"
	Interior	20"	19 1/8"	48 1/8"		

