

PH-DAI-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 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

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

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

Temperature rise after 8 sec door

openings

Simulator ballast

pening All probes recover to under 8°C within 6.5 min.

1.32 KWh/dav4

Recovery after 3 min door opening Energy consumption

Average heat rejection

2.21 KWh/day (315 BTU/h)⁴

Noise pressure level (dBA)

Pull down time to 4°C nominal operating

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.

Temperature setpoint range 1°C to

1°C to 10°C (Controller settings must remain unaltered to ensure thermal performance compliant with NSF/ANSI 456 Standard for Vaccine Storage requirements)

Temperature did not exceed 6.7°C at any probe for all required NSF/ANSI 456 testing protocols³

Calibration Calibrated using a NIST traceable device, three year 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

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

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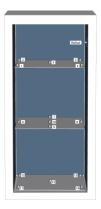




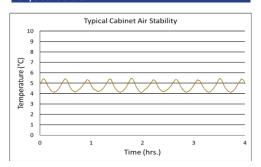


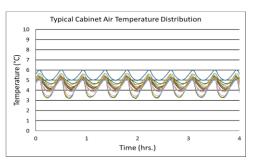
*-one or more of these certifications may apply to this unit.

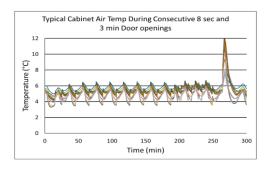
Temperature Probes						
Probe	Ave	Min	Max			
1	4.1	3.2	5.4			
2	4.6	4.2	5.2			
3	4.7	4.3	5.1			
4	4.2	3.3	5.5			
5	4.5	4.0	5.1			
6	5.0	4.5	5.7			
7	4.6	4.1	5.4			
8	4.7	4.2	5.4			
9	4.1	3.2	5.5			
10	4.7	4.1	5.5			
11	5.4	5.0	6.0			
12	4.9	4.6	5.3			
13	4.4	3.8	5.1			
14	4.5	3.8	5.5			
15	4.2	3.4	5.3			



Temperature Charts









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Images





			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"		

