

PH-DAI-NSF-S23G

Product Description

These 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. Vaccine Storage Refrigerators utilize HFC-free refrigerant for environmental health and energy efficiency.

General Description and Application

Description Single Glass 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 glass door, self-closing, right hinged, non-reversible, magnetic sealed gasket, keyed

lock

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

Mounting 3 1/2" Swivel Castors(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 One (1) year parts and labor warranty, excluding display probe calibration

Compressor warranty Five(5) years compressor warranty

Product Weight 302 lbs.
Shipping Weight 342 lbs.
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

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

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/may

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

Refrigerant

Condenser

Evaporator

Defrost

Hermetic, high performance

EPA SNAP compliant, R290, propane

Fin and tube design, high efficiency fan

Cycle optimized, zero energy

Performance

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

(Cabinet air)

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

door openings

Recovery after 3 min door opening All probes recover to under 8°C within 6.5 min.

Energy consumption 1.32 KWh/day⁴

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 min temp

Controller, Configuration, Alarms and Monitoring

Controller technology

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

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

Simulator ballast

Tigit / Low temperature, compliant with alarm requirements defined in the NST/ANSI 450

Standard for Vaccine Storage

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

Intertek

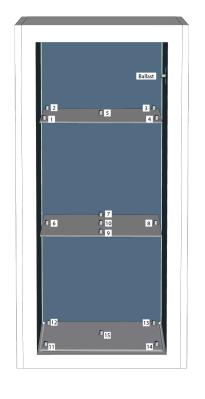




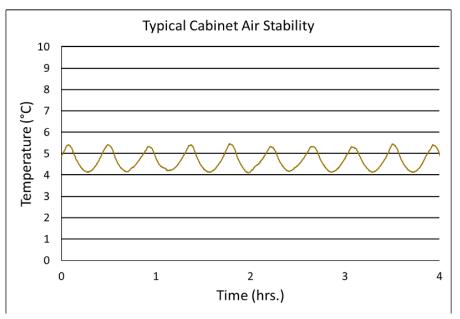


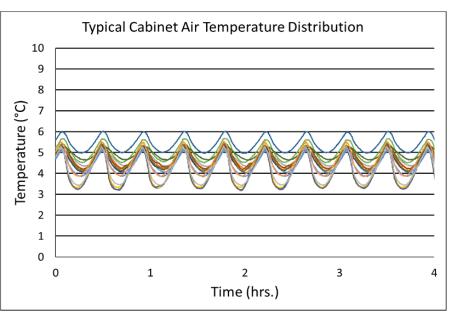
*-one or more of these certifications may apply to this unit.

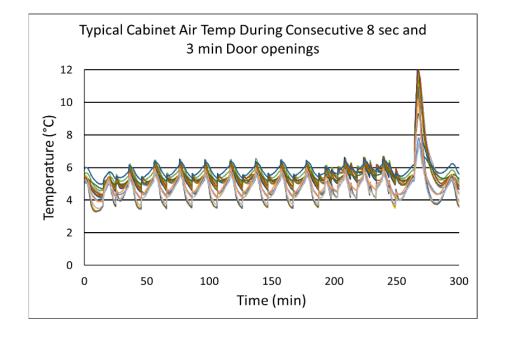
Temperature Probes								
Probe	Ave	Min	Max					
1	4.1	3.2	5.4					
2	4.6	4.2	5.2					
3	4.7	4.3	5.1					
4	4.2	3.3	5.5					
5	4.5	4.0	5.1					
6	5.0	4.5	5.7					
7	4.6	4.1	5.4					
8	4.7	4.2	5.4					
9	4.1	3.2	5.5					
10	4.7	4.1	5.5					
11	5.4	5.0	6.0					
12	4.9	4.6	5.3					
13	4.4	3.8	5.1					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



Temperature Charts









Product Data Sheet

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Images





D	Dimensions									
		Width	Depth	Height	Door Swing	Total open Depth				
۰	Exterior	26 7/8"	34 7/8"	81 3/4"	25"	58 1/4"				
	Interior	21 3/4"	25 1/8"	49 1/4"						

