



PH-DAI-NSF-S12G

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.

These glass 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 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	12 cu. ft. gross volume
Door	One swing glass door, self-closing, right hinged, non-reversible, magnetic sealed gasket, keyed lock
Shelves	Four shelves (three 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	One (1) year parts and labor warranty, excluding display probe calibration
Compressor warranty	Five(5) years compressor warranty
Product Weight	224
Shipping Weight	264
Rated Amperage	3
Power Plug/Power Cord	NEMA 5-15 plug, 8 to 10 ft typical, conforms to UL471 requirements, Vaccine Storage power 110-120V AC: 15 A (minimum)
Facility Electrical Requirement	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.
Agency Listing and Certification	
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

Uniformity ¹ (Cabinet air)	+/- 0.7°C
Stability ² (Cabinet air)	+/- 1.3°C
Maximum temperature variation (Cabinet air) ³	+/-1.1°C
Temperature rise after 8 sec door openings	Temperature did not exceed 5.4°C at any probe for all required NSF/ANSI 456 testing protocols ⁴
Recovery after 3 min door opening	All probes recover to under 8°C within 2.5 min.
Energy consumption	0.61 kWh/day ⁴
Average heat rejection	1.20 kWh/day (315 BTU/h) ⁴
Noise pressure level (dBA)	48 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
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)
Calibration	Calibrated using a NIST traceable device, three year certificate included
External alarm connection	State switching remote alarm contacts
Alarms	Visual and audible indicators
Simulator ballast	High / Low temperature, compliant with alarm requirements defined in the NSF/ANSI 456 Standard for Vaccine Storage

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

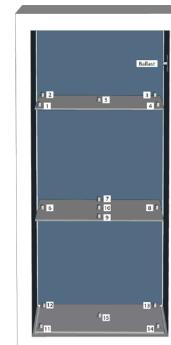
Upright 12 cu. ft. Glass Door Refrigerator, High Performance - Certified to NSF/ANSI 456 Standard for Vaccine Storage

Certifications

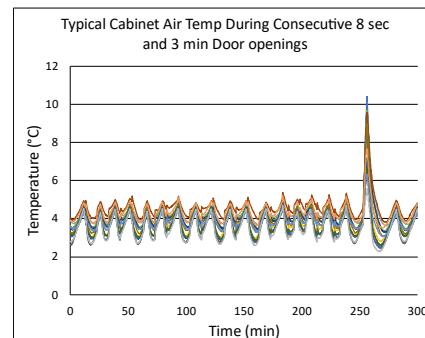
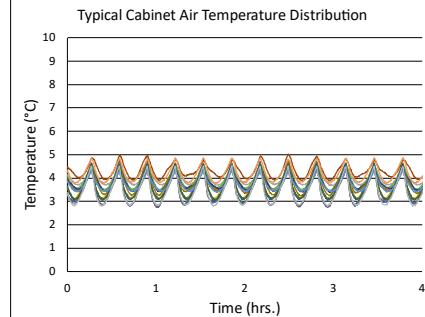
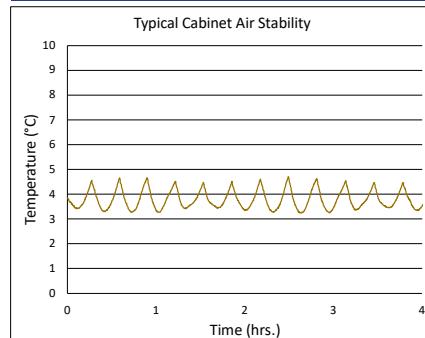


*-one or more of these certifications may apply to this unit.

Temperature Probes			
Probe	Ave	Min	Max
1	3.5	2.7	4.7
2	3.8	3.4	4.5
3	4.0	3.7	4.5
4	3.7	3.1	4.7
5	3.8	3.4	4.5
6	3.9	3.4	4.7
7	3.8	3.4	4.6
8	4.3	3.9	5.0
9	3.5	2.7	4.8
10	3.8	3.2	4.7
11	3.6	3.1	4.6
12	3.6	3.1	4.4
13	3.7	3.4	4.3
14	4.2	3.8	4.9
15	3.4	2.8	4.5



Temperature Charts





Product Data Sheet

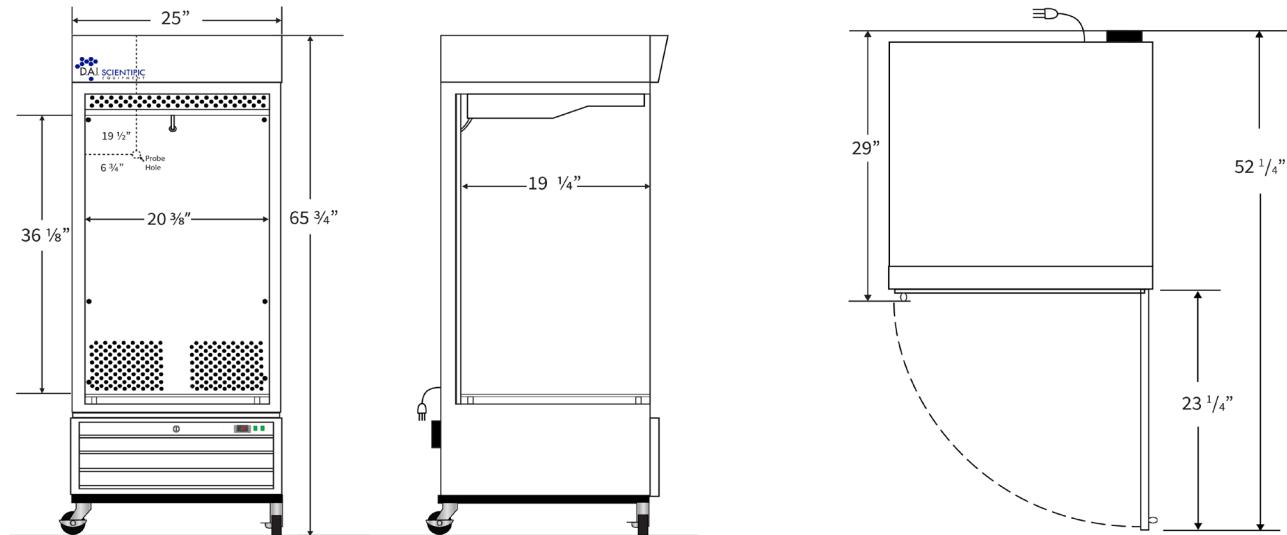
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Images



Dimensions

	Width	Depth	Height	Door Swing	Total open Depth
Exterior	25"	29"	65 3/4"	23 1/4"	52 1/4"
Interior	20 3/8"	19 1/4"	36 1/8"		



Contact

Phone
Email
Rev_10042022

866-705-4749
customerservice@daiscientific.com