

PH-DAI-NSF-S49G

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 Double Glass Door Pharmacy/Vaccine Upright Refrigerator Description Indoor use only, +18°C to +26°C (+65°F to +78°F), <70% RH Operational environment Storage capacity 49 cu. ft. gross volume Door Two swing glass doors, self-closing, non-reversible, magnetic sealed gaskets, keyed locks Ten shelves (eight adjustable/one fixed) with guard rail on back Shelves 3 1/2" Swivel Casters (two locking) Mounting Shielded, switched LED lighting, full coverage, balanced spectrum Interior lighting Forced Air technology, patent pending Airflow management Rear wall port (3/4") dia. External probe access Cabinet is foamed-in-place with EPA compliant high density urethane foam White powder coated steel Exterior materials Pyxis®, Omnicell® and AcuDose RX® compatible One (1) year parts and labor warranty, excluding display probe calibration General warranty Five(5) years compressor warranty Compressor warranty 494 Product Weight 544 Shipping Weight Rated Amperage 4.5 Amps 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) 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 Included Accessories memory, field installable, and visual & audible temp alarm

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
Defrect	Cycle entimized zero energy

Pharmacy refrigerator/freezer toolkit and temperature logs

Performance	
Uniformity ¹ (Cabinet air)	+/- 1.0°C
Stability ² (Cabinet air)	+/- 0.9°C
Maximum temperature variation (Cabinet air)	+/-1.2°C
Temperature rise after 8 sec door openings	Temperature did not exceed 6.0°C at any probe for all required NSF/ANSI 456 testing protocols ^a
Recovery after 3 min door opening	All probes recover to under 8°C within 6.5 min.
Energy consumption	1.45 KWh/day ⁴
Average heat rejection	3.15 KWh/day (448 BTU/h) ⁴
Noise pressure level (dBA)	48 or less installed
Pull down time to 4°C nominal operating temp	45 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)			
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 49 cu. ft. Glass Door Refrigerator, High Performance - Certified to NSF/ANSI 456 Standard for Vaccine Storage



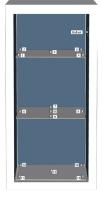




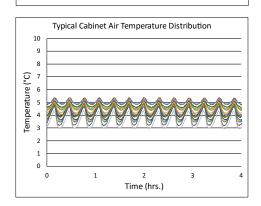


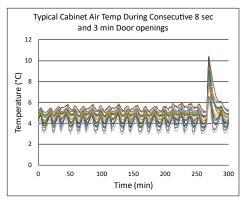
*-one or more of these certifications may apply to this unit.

Tempe	Temperature Probes				
Probe	Ave	Min	Max		
1	4.0	3.4	4.9		
2	4.7	4.3	5.2		
3	4.8	4.5	5.2		
4	4.2	3.5	5.1		
5	4.4	4.0	4.9		
6	4.7	4.4	5.1		
7	4.3	3.8	5.1		
8	5.0	4.8	5.4		
9	3.9	3.2	4.9		
10	4.3	3.8	4.9		
11	4.0	3.6	4.7		
12	4.8	4.6	5.1		
13	5.0	4.8	5.3		
14	4.5	4.1	5.1		
15	3.5	2.9	4.4		



Temperature Charts Typical Cabinet Air Stability 10 <u>ဂ</u> Temperature 6 3 2 1 Ω Time (hrs.)







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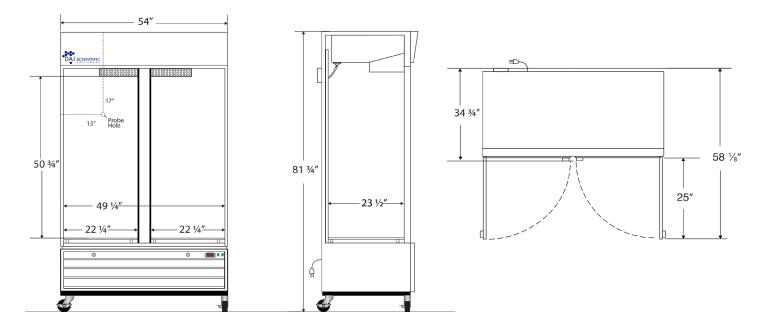
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Images





Dimensions					
	Width	Depth	Height	Door Swing	Total open Depth
Exterior	54"	34 3/4"	81 3/4"	25"	58 1/8"
Interior	49 1/4"	23 1/2"	50 3/4"		



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