

Product Data Sheet

Upright 23 cu. ft. Glass Door Refrigerator, High Performance - Certified to NSF/ANSI 456 Standard for

PH-ABT-NSF-S23G

Product Description

These standard upright 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. American Biotech Supply Vaccine Storage Refrigerators utilize HFC-free refrigerant for environmental health and energy efficiency.

General Description and Application

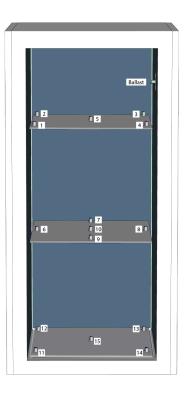
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Storage capacity23 cu. ft. gross volumeDoorOne swing glass door, self-closing, right hinged, non-reversible, magnetic sealed gasket, k lockShelvesFive shelves (four adjustable/one fixed) with guard rail on backMounting3 1/2" Swivel Castors(two locking)Interior lightingShielded, switched LED lighting, full coverage, balanced spectrumAirflow managementForced Air technology, patent pendingExternal probe accessRear wall port (3/4") dia.InsulationCabinet is foamed-in-place with EPA compliant high density urethane foamExterior materialsWhite powder coated steelAccess controlPyxis®, Omnicell® and AcuDose RX® compatibleGeneral warrantyOne (1) year parts and labor warranty, excluding display probe calibrationCompressor warrantyFive(5) years compressor warrantyProduct Weight342 lbs.Shipping Weight342 lbs.Rated Amperage3 AmpsPower Plug/Power CordNEMA 5-15 plug, 8 to 10 ft typical, conforms to UL471 requirements, Vaccine Storage powFacility Electrical Requirement110-120V AC: 15 A (minimum)Agency Listing and CertificationCompliant with the temperature performance requirements as defined in the NSF 456 Stat for Vaccine Storage for all testing scenarios. UL, C-UL, ETL, C-ETL listed and certified to UL	tion S	Single Glass Door Pharmacy/Vaccine Upright Refrigerator
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	fo	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 year certification of calibration, "buffered" probe in the product simulated solution, min/max memory. F/C switchable, field installable, and visual & audible temp alarm	с	
Pharmacy refrigerator/freezer toolkit and temperature logs	Р	Pharmacy refrigerator/freezer toolkit and temperature logs

Certifications

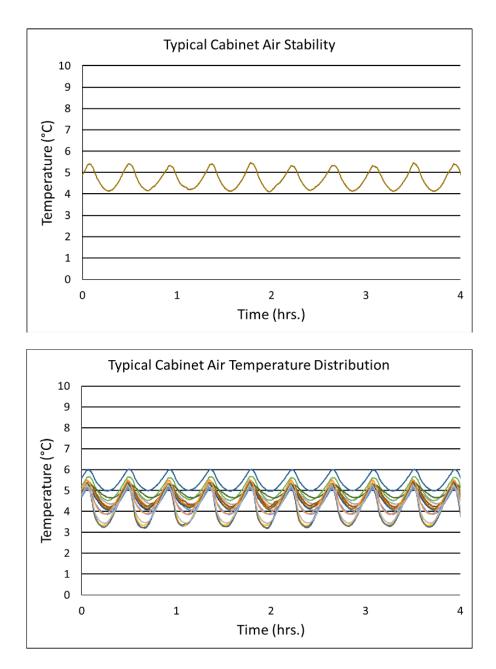


*-one or more of these certifications may apply to this unit.

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



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)	+/- 1.0°C
Stability ² (Cabinet air)	+/- 1.1°C
Maximum temperature variation	+/-1.4°C
(Cabinet air)₪	
Temperature rise after 8 sec door	Temperature did not exceed 6.7°C at any probe for all required NSF/ANSI 456 testing protocols ³
openings	
Recovery after 3 min door opening	All probes recover to under 8°C within 6.5 min.
Energy consumption	1.32 KWh/day ^₄
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	

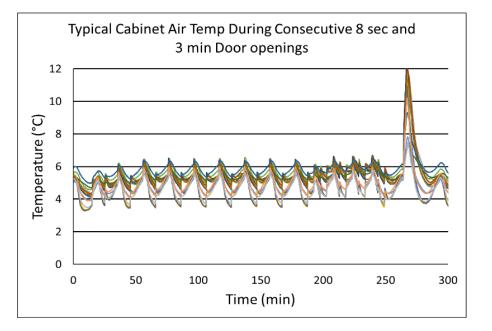
nd Monitoring
Parametric, microprocessor, LED display with 0.1°C resolution
1°C to 10°C (Controller settings must remain unaltered to ensure thermal performance compliant with NSF/ANSI 456 Standard for Vaccine Storage requirements)
Calibrated, stainless steel
State switching remote alarm contacts
Visual and audible indicators
High / Low temperature, compliant with alarm requirements defined in the NSF/ANSI 456
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.







ABS American BioTech Supply

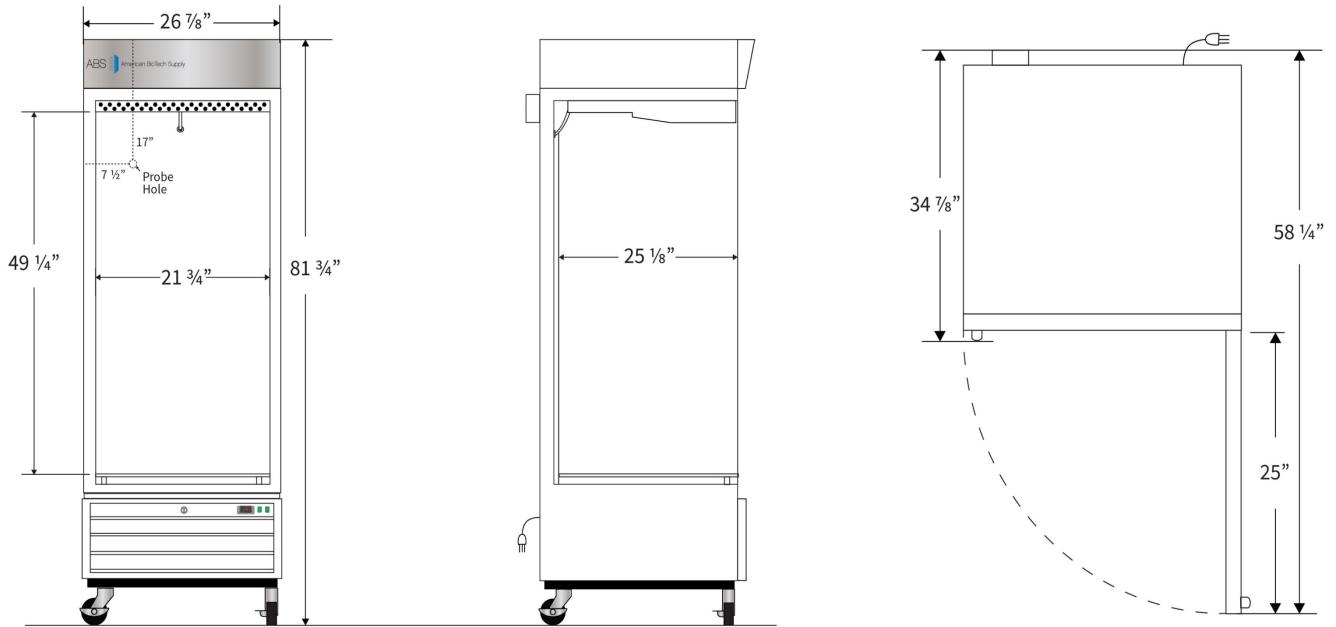
Product Data Sheet

Upright 23 cu. ft. Glass Door Refrigerator, High Performance - Certified to NSF/ANSI 456 Standard for

Images



Dimensions					
	Width	Depth	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"		



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