

# PH-DAI-NSF-12S

#### **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

12 cu. ft. gross volume

Storage capacity

One swing solid door, self-closing, right hinged, non-reversible, magnetic sealed gasket, keyed Door

**Shelves** Six shelves (five 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

Rear wall port (3/4") dia. External probe access

Insulation Cabinet is foamed-in-place with EPA compliant high density urethane foam

**Exterior materials** White powder coated steel

Pyxis®, Omnicell® and AcuDose RX® compatible Access control

Two (2) years parts and labor warranty, excluding display probe calibration General warranty

Compressor warranty Five (5) years compressor warranty

**Product Weight** 231 lbs. 256 lbs. **Shipping Weight** 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

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.

**Included Accessories** 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

memory, field installable, and visual & audible temp alarm

Pharmacy refrigerator/freezer toolkit and temperature logs

### Refrigeration System

Hermetic, high performance Compressor Refrigerant EPA SNAP compliant, R290, propane Fin and tube design, high efficiency fan Fin and tube design, high efficiency fan Evaporator Defrost Cycle optimized, zero energy

### **Performance**

Display technology

Alarms

Uniformity<sup>1</sup> (Cabinet air) +/- 0.7°C +/- 1.3°C Stability<sup>2</sup> (Cabinet air) Maximum temperature variation (Cabinet air) +/-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<sup>3</sup>

All probes recover to under 8°C within 2.5 min. Recovery after 3 min door opening

0.61 KWh/day4 Energy consumption

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

Parametric, microprocessor, LED display with 0.1°C resolution Controller technology

NSF/ANSI 456 Standard for Vaccine Storage compliant digital temperature display and alarm

module with battery back-up.

1°C to 10°C (Controller settings must remain unaltered to ensure thermal performance compliant Temperature setpoint range

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

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

#### Certifications

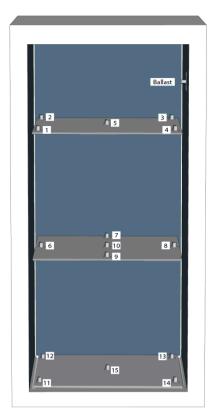




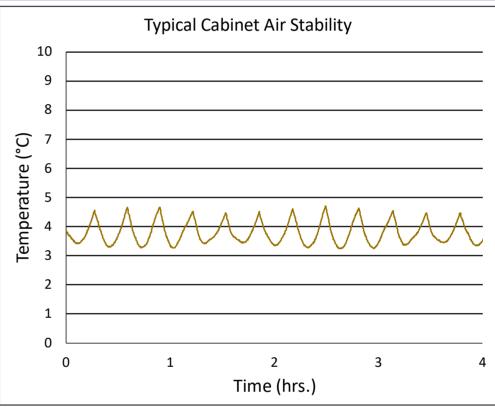


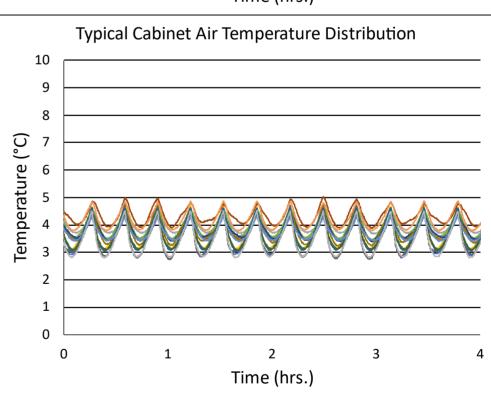
\*-one or more of these certifications may apply to this unit.

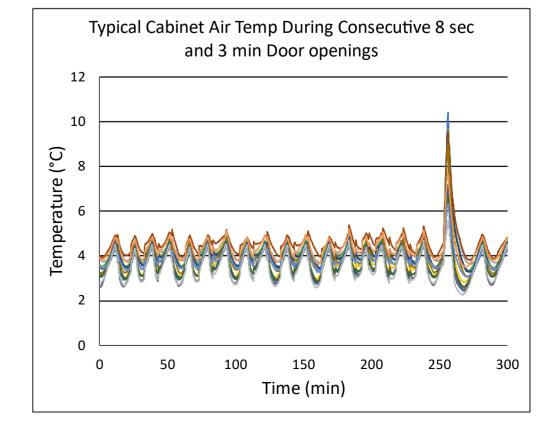
Temperature Probes							
Probe	Ave	Min	Max				
1	3.5	2.7	4.7				
2	3.8	3.4	4.5				
3	4.0	3.7	4.5				
4	3.7	3.1	4.7				
5	3.8	3.4	4.5				
6	3.9	3.4	4.7				
7	3.8	3.4	4.6				
8	4.3	3.9	5.0				
9	3.5	2.7	4.8				
10	3.8	3.2	4.7				
11	3.6	3.1	4.6				
12	3.6	3.1	4.4				
13	3.7	3.4	4.3				
14	4.2	3.8	4.9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



#### **Temperature Charts**









### **Product Data Sheet**

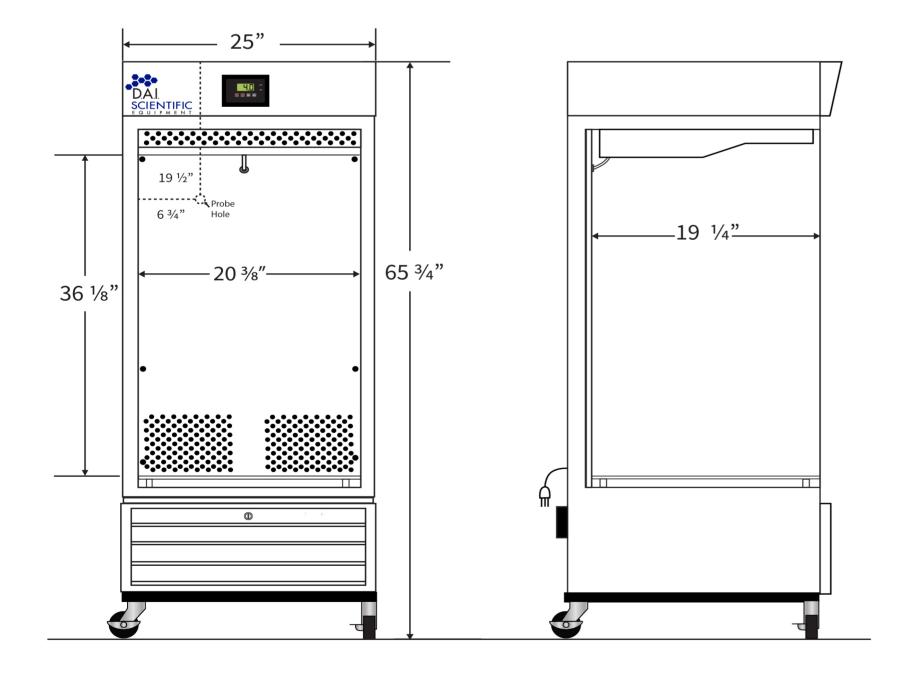
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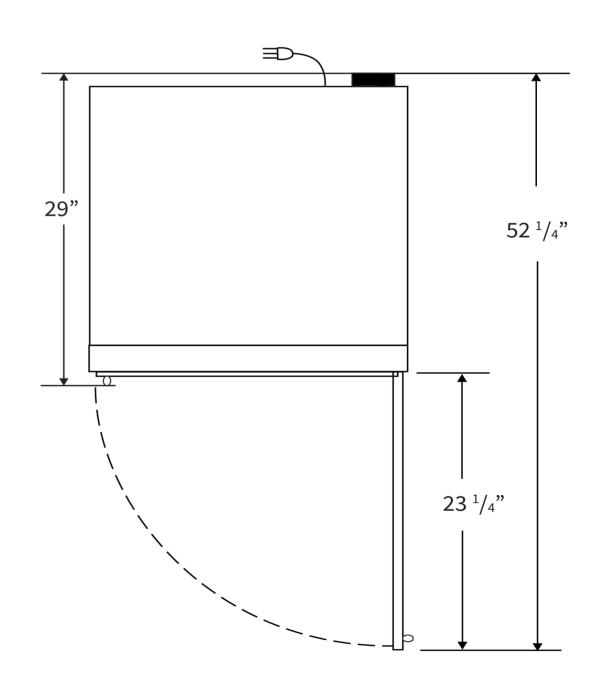
## Images





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"				





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