

#### **Product Data Sheet**

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

# PH-ABT-NSF-12S

#### **Product Description**

Simulator ballast

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 Premier line includes premium 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 Applicatior | ו<br>ערביים ביינים  |  |  |  |
|-------------------------------------|---|--|--|--|
| 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   |  |  |  |
| Storage capacity                    | 12 cu. ft. gross volume   |  |  |  |
| Door                                | One swing solid door, self-closing, right hinged, non-reversible, magnetic sealed gasket, keyed lock  |  |  |  |
| 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   |  |  |  |
| 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 <sup>®</sup> , Omnicell <sup>®</sup> and AcuDose RX <sup>®</sup> compatible   |  |  |  |
| General warranty                    | Two (2) years parts and labor warranty, excluding display probe calibration   |  |  |  |
| Compressor warranty                 | Five (5) years compressor warranty  |  |  |  |
| Product Weight                      | 231 lbs.  |  |  |  |
| Shipping Weight                     | 256 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 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<br>Standard for Vaccine Storage for all testing scenarios. UL, C-UL, ETL, C-ETL listed and certified to<br>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  |  |  |  |

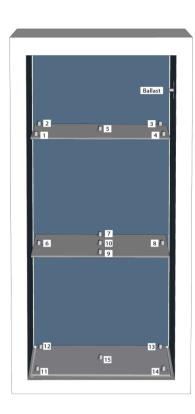
| <b>Refrigeration System</b> | 1  |
|-----------------------------|--|
| Compressor                  | Hermetic, high performance               |
| Refrigerant                 | EPA SNAP compliant, R290, propane        |
| Condenser                   | Fin and tube design, high efficiency fan |
| Evaporator                  | Fin and tube design, high efficiency fan |
| Defrost                     | Cycle optimized, zero energy             |

#### Certifications

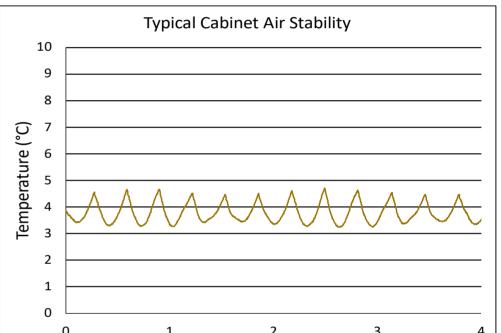


\*-one or more of these certifications may apply to this unit.

| 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**



| Performance                                  |  |
|--|--|
| Uniformity <sup>1</sup> (Cabinet air)        | +/- 0.7°C  |
| Stability <sup>2</sup> (Cabinet air)         | +/- 1.3°C  |
| 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> |
|  |  |
| Recovery after 3 min door opening            | All probes recover to under 8°C within 2.5 min.  |
| Energy consumption                           | 0.61 KWh/day⁴  |
| Average heat rejection                       | 1.20 KWh/day (315 BTU/h) <sup>₄</sup>  |
| Noise pressure level (dBA)                   | 48 or less installed   |
| Pull down time to 4°C nominal operating temp | 30 min   |
|  |  |

| Controller technology     | Parametric, microprocessor, LED display with 0.1°C resolution   |
|---------------------------|---|
| Display technology        | NSF/ANSI 456 Standard for Vaccine Storage compliant digital temperature display and alarm module with battery back-up, F/C switchable.                      |
| emperature 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   |
| xternal alarm connection  | State switching remote alarm contacts   |
|                           | Visual and audible indicators   |
| larms                     | High / Low temperature, compliant with alarm requirements defined in the NSF/ANSI 456<br>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

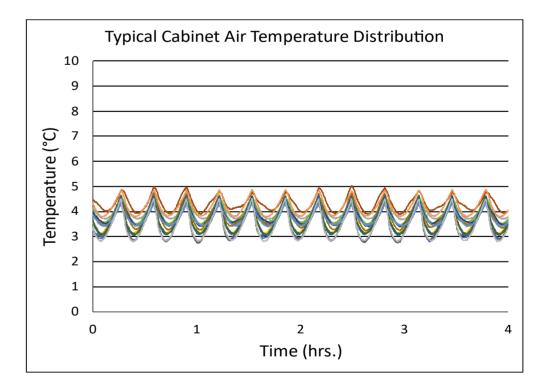
Glass bead thermal media

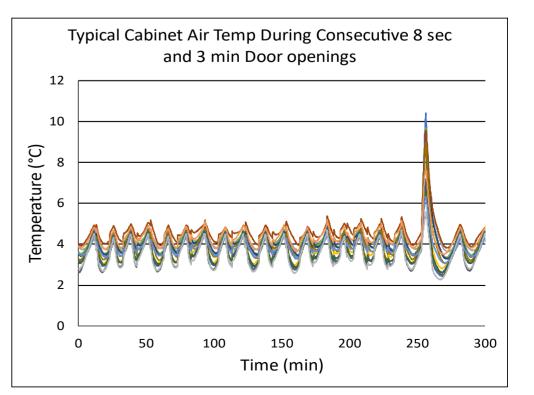
2 - Stability is defined as the maximum variance in temperature experienced by any single probe over the testing period

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.

Time (hrs.)







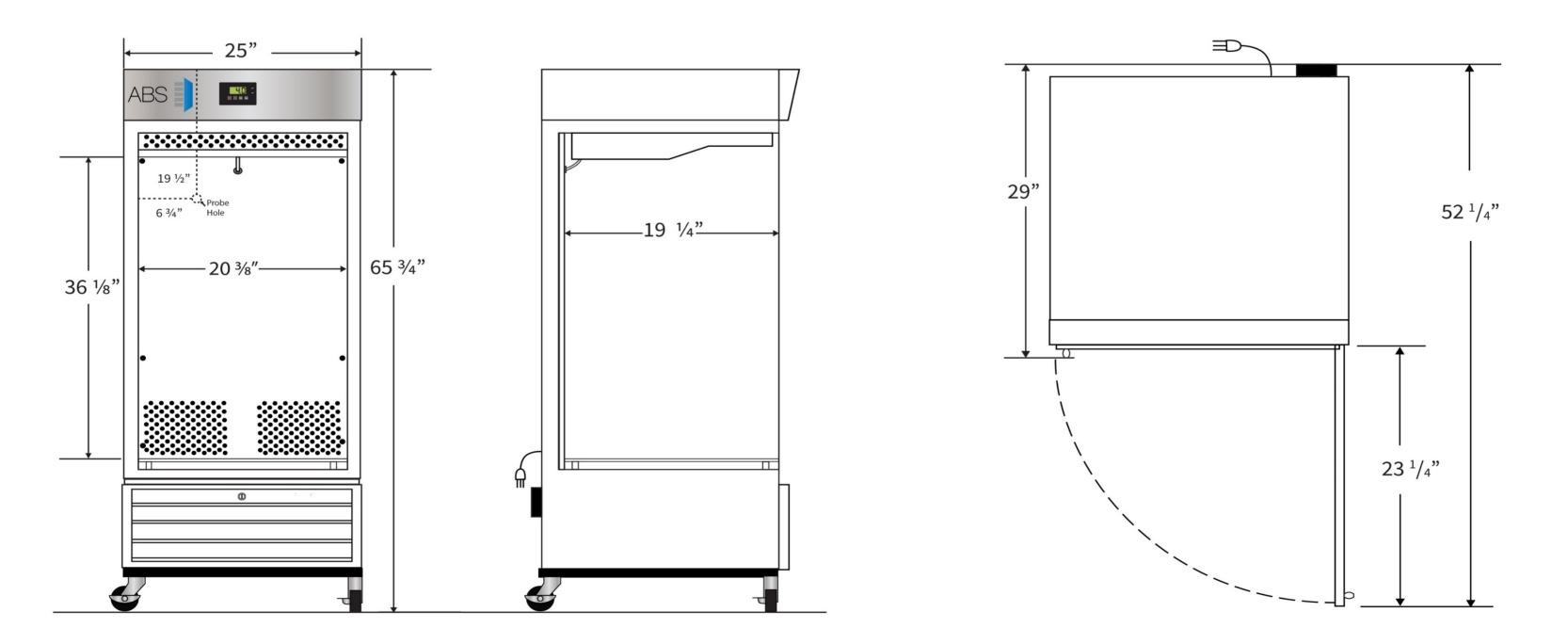
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| Dimensions |         |         |         |            |                  |  |  |
|------------|---------|---------|---------|------------|------------------|--|--|
|            | Width   | Depth   | Height  | Door Swing | Total open Depth |  |  |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



### Contact

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