

# PH-DAI-NSF-UCBI-0404-ADA

#### **Product Description**

These built-in undercounter 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.

The solid door, ADA compliant refrigerators utilize microprocessor controllers and feature temperature alarms, remote alarm contacts, and probe access ports with included probes. Vaccine Storage Refrigerators utilize HFC-free refrigerant for environmental health and energy efficiency.

#### **General Description and Application**

Description Single Solid Door Pharmacy/Vaccine Undercounter Refrigerator Built-In ADA Compliant

Operational environment Indoor use only, +18°C to +26°C (+65°F to +78°F), <70% RH

Storage capacity 4.6 cu. ft. gross volume

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

lock

Shelves Three shelves (two adjustable/one fixed) with guard rail on back

Mounting Low profile roller wheels and leveling legs

Interior lighting N/A

Airflow management Forced Air technology, patent pending

External probe access Rear wall port (1/2") 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 Two (2) years parts and labor warranty, excluding display probe calibration

Compressor warranty Five (5) years compressor warranty

Product Weight 100 lbs.
Shipping Weight 140 lbs.
Rated Amperage 1.74 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)

Certified in accordance with the NSF/ANSI 456 Standard for Vaccine Storage. UL, C-UL, ETL, C-

ETL listed (either single or dual agency listings) and certified to UL471 standard, hydrocarbon

refrigerant safety.

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. F/C switchable, field installable, and visual & audible temp alarm

Pharmacy refrigerator/freezer toolkit and temperature logs

### Refrigeration System

Agency Listing and Certification

Compressor

Refrigerant

Condenser

Evaporator

Hermetic, high performance

EPA SNAP compliant, R600a, Isobutane

Hybrid fin and tube with low noise fan

Plate wall

Evaporator Plate wall

Defrost Cycle optimized, zero energy

# Performance

Uniformity<sup>1</sup> (Cabinet air) +/- 0.8°C Stability<sup>2</sup> (Cabinet air) +/- 1.2°C Maximum temperature variation +/- 1.4°C

(Cabinet air)

Temperature rise after 8 sec door

Temperature did not exceed 6.4°C at any probe for all required NSF/ANSI 456 testing

openings protoco

Recovery after 3 min door opening

All probes recover to under 8°C within 4.8 min.

Energy consumption 1.15 KWh/day<sup>4</sup>

Average heat rejection 1.57 KWh/day (224 BTU/h)<sup>4</sup>
Noise pressure level (dBA) 43 or less installed

Pull down time to nominal operating 35 min

temp

Alarms

Simulator ballast

# Controller, Configuration, Alarms and Monitoring

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

Temperature setpoint range 1°C to 10°C (Setpoint must remain unaltered from the factory setting to remain 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

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

#### Product Data Sheet

Undercounter 4.6 cu. ft. Built-in Vaccine Refrigerator ADA - Certified to NSF/ANSI 456 Standard for Vaccine Storage

### Certifications

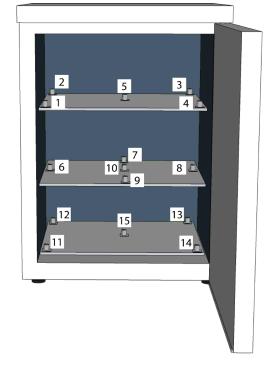




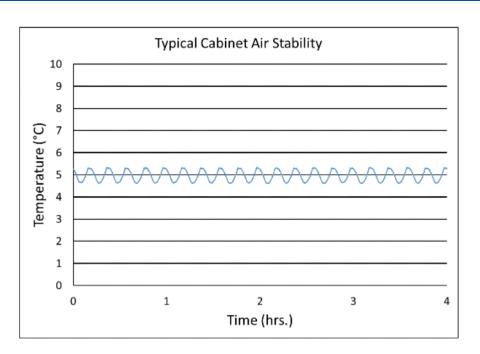


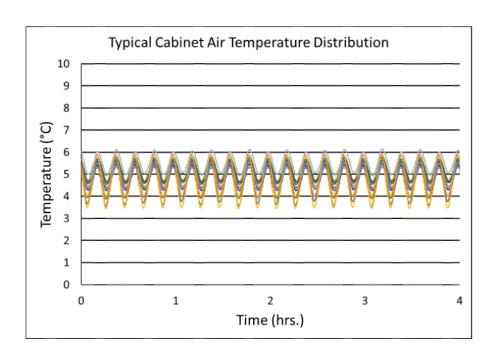
\*-one or more of these certifications may apply to this unit.

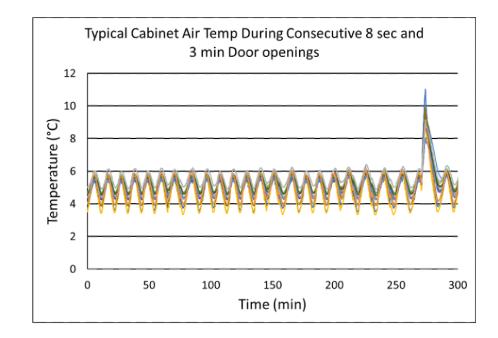
| Temperature Probes |     |         |     |  |  |  |  |  |
|--------------------|-----|---------|-----|--|--|--|--|--|
| Probe              | Ave | Min     | Max |  |  |  |  |  |
| 1                  | 4.6 | 3.5     | 5.8 |  |  |  |  |  |
| 2                  | 4.9 | 4.9 4.3 |     |  |  |  |  |  |
| 3                  | 5.0 | 5.0 4.4 |     |  |  |  |  |  |
| 4                  | 4.6 | 3.4     | 5.8 |  |  |  |  |  |
| 5                  | 5.0 | 4.6     | 5.3 |  |  |  |  |  |
| 6                  | 5.3 | 4.7     | 5.9 |  |  |  |  |  |
| 7                  | 4.8 | 4.2     | 5.5 |  |  |  |  |  |
| 8                  | 5.1 | 4.5     | 5.8 |  |  |  |  |  |
| 9                  | 4.8 | 3.9     | 5.8 |  |  |  |  |  |
| 10                 | 4.8 | 3.9     | 5.8 |  |  |  |  |  |
| 11                 | 5.5 | 4.9     | 6.2 |  |  |  |  |  |
| 12                 | 5.1 | 4.6     | 5.6 |  |  |  |  |  |
| 13                 | 4.9 | 4.3     | 5.5 |  |  |  |  |  |
| 14                 | 4.9 | 4.0     | 5.9 |  |  |  |  |  |
| 15                 | 5.5 | 4.9     | 6.2 |  |  |  |  |  |



#### **Temperature Charts**









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#### **Images**





| Dimensions |          |         |         |           |            |                  |  |  |
|------------|----------|---------|---------|-----------|------------|------------------|--|--|
|            |          | Width   | Depth   | Height    | Door Swing | Total open Depth |  |  |
| ı          | Exterior | 23 7/8" | 24 3/8" | 31 15/16" | 23 1/2"    | 46"              |  |  |
|            | Interior | 19 1/4" | 17 1/2" | 22"       |            |                  |  |  |

