

## PH-ABT-NSF-UCFS-0104G

### Product Description

These countertop 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

|                                  |                                                                                                                                                                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                      | Single Glass Door Pharmacy/Vaccine Undercounter Refrigerator Freestanding Right Hinged                                                                                                                                                 |
| Operational environment          | Indoor use only. Optimal operating range: +18°C to +26°C (+65°F to +78°F), <70% RH                                                                                                                                                     |
| Storage capacity                 | 1 cu. ft. gross volume                                                                                                                                                                                                                 |
| Door                             | One swing glass 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 and Installation        | Leveling legs. Note: 4" of clearance on all sides must be maintained for adequate ventilation                                                                                                                                          |
| Interior lighting                | Shielded, switched LED lighting, full coverage, balanced spectrum                                                                                                                                                                      |
| Airflow management               | Forced Air technology, patent pending                                                                                                                                                                                                  |
| External probe access            | Rear wall port (23/32") 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                   | 66 lbs.                                                                                                                                                                                                                                |
| Shipping Weight                  | 94 lbs.                                                                                                                                                                                                                                |
| Rated Amperage                   | 0.9 A max                                                                                                                                                                                                                              |
| 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 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. Energy Star Certified |
| Included Accessories             | Pharmacy refrigerator/freezer toolkit and temperature logs                                                                                                                                                                             |

### Refrigeration System

|             |                                      |
|-------------|--------------------------------------|
| Compressor  | Hermetic, high performance           |
| Refrigerant | EPA SNAP compliant, R600a, Isobutane |
| Condenser   | Tube and grid construction, fanless  |
| Evaporator  | Plate wall                           |
| Defrost     | Cycle optimized, zero energy         |

### Performance

|                                            |                                                                                                            |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Uniformity <sup>1</sup> (Cabinet air)      | +/- 1.5°C                                                                                                  |
| Stability <sup>2</sup> (Cabinet air)       | +/- 0.7°C                                                                                                  |
| Maximum temperature variation              | +/- 1.8°C                                                                                                  |
| Temperature rise after 8 sec door openings | Temperature did not exceed 6.8°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 5.5 min.                                                            |
| Energy consumption                         | 0.71 KWh/day <sup>4</sup>                                                                                  |
| Average heat rejection                     | 1.01 KWh/day (144 BTU/h) <sup>4</sup>                                                                      |
| Noise pressure level (dBA)                 | 34 or less installed                                                                                       |
| Pull down time to nominal operating temp   | 35 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 (Setpoint must remain unaltered from the factory setting to remain compliant with NSF/ANSI 456 Standard for Vaccine Storage requirements) |
| Calibration                | Calibrated using a NIST traceable device, certificate included                                                                                        |
| External alarm connection  | State switching remote alarm contacts                                                                                                                 |
| Alarms                     | Visual and audible indicators<br>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

Countertop 1 cu. ft. Glass Door Freestanding Vaccine Refrigerator - Certified to NSF/ANSI 456 Standard for Vaccine Storage

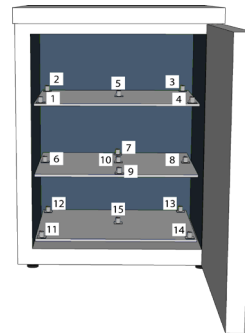
### Certifications



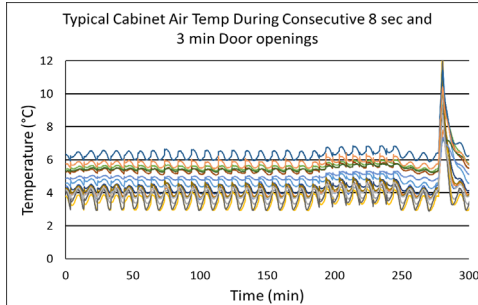
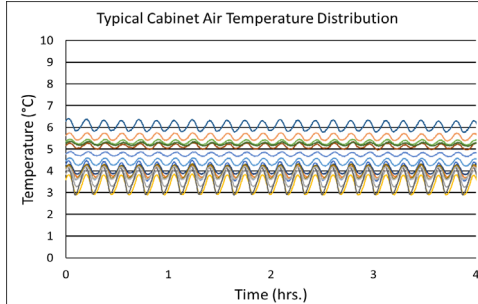
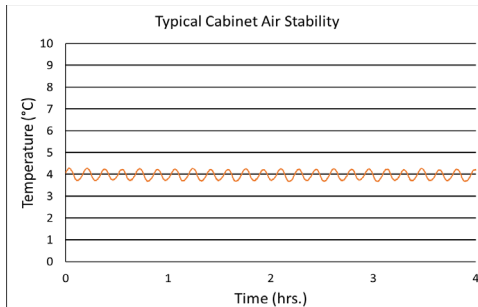
\*-one or more of these certifications may apply to this unit.

### Temperature Probes

| Probe | Ave | Min | Max |
|-------|-----|-----|-----|
| 1     | 4.0 | 3.5 | 4.5 |
| 2     | 4.0 | 3.7 | 4.3 |
| 3     | 3.6 | 3.2 | 4.1 |
| 4     | 3.4 | 2.9 | 3.8 |
| 5     | 4.4 | 4.2 | 4.6 |
| 6     | 5.3 | 5.2 | 5.5 |
| 7     | 4.1 | 3.8 | 4.3 |
| 8     | 5.1 | 5.0 | 5.3 |
| 9     | 3.6 | 2.9 | 4.2 |
| 10    | 4.0 | 3.6 | 4.3 |
| 11    | 6.1 | 5.8 | 6.4 |
| 12    | 5.2 | 5.1 | 5.4 |
| 13    | 4.8 | 4.6 | 4.9 |
| 14    | 5.6 | 5.4 | 5.8 |
| 15    | 3.9 | 3.6 | 4.2 |



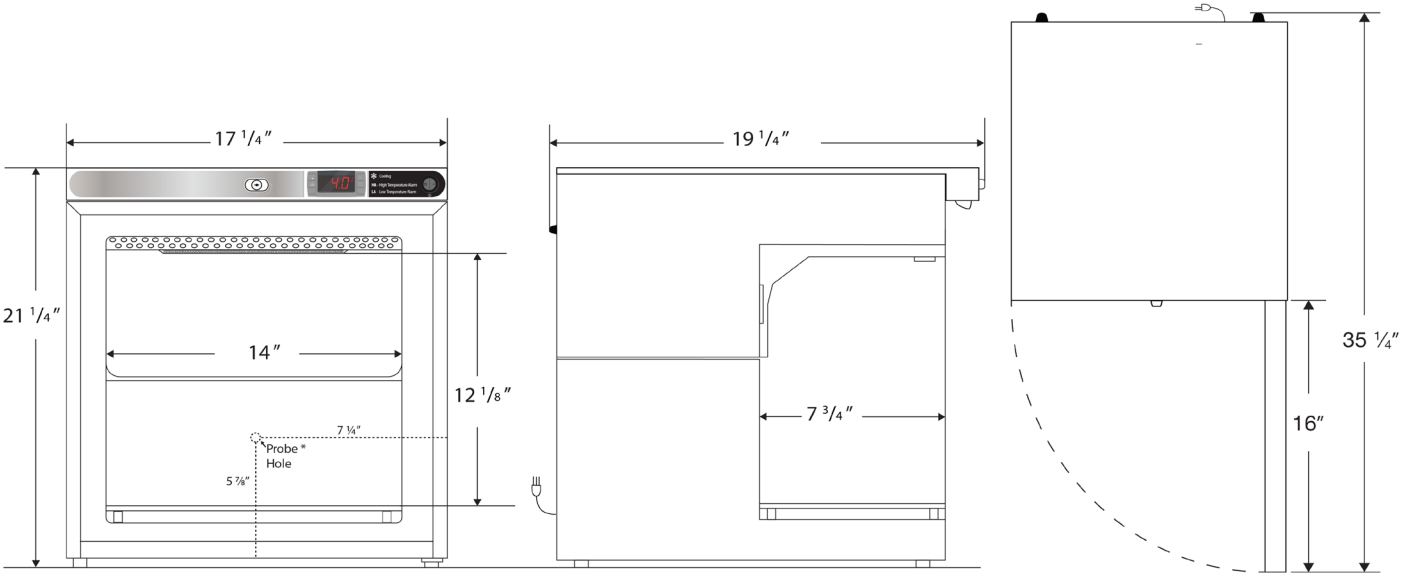
### Temperature Charts



Images



| Dimensions |         |         |         |            |                  |
|------------|---------|---------|---------|------------|------------------|
|            | Width   | Depth   | Height  | Door Swing | Total open Depth |
| Exterior   | 17 1/4" | 19 1/4" | 21 1/4" | 16"        | 35 1/4"          |
| Interior   | 14"     | 7 3/4"  | 12 1/8" |            |                  |



Note: This unit must have 4" clearance on sides and back for adequate ventilation

| Contact           |                                       |                                                                                                    |
|-------------------|---------------------------------------|----------------------------------------------------------------------------------------------------|
| Customer Service  | 800-648-4041 Option 3                 | <a href="mailto:customerservice@horizonscientific.com">customerservice@horizonscientific.com</a>   |
| Technical Service | 800-648-4041 Option 5, Parts Option 4 | <a href="mailto:technicalservice@horizonscientific.com">technicalservice@horizonscientific.com</a> |
| Rev_10042022      |                                       |                                                                                                    |