

# PH-BSI-NSF-UCFS-0504

#### **Product Description**

These 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.

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

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

Single Solid Door Pharmacy/Vaccine Undercounter Refrigerator Freestanding Description

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

5.2 cu. ft. gross volume Storage capacity

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

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

Leveling legs. Note: 4" of clearance on all sides must be maintained for adequate ventilation Mounting and Installation

Interior lighting Shielded, switched LED lighting, full coverage, balanced spectrum

Forced Air technology, patent pending Airflow management

Rear wall port (3/8") dia. External probe access

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

**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

96 lbs. **Product Weight** 132 lbs. Shipping Weight Rated Amperage 1.3 Amps

Power Plug/Power Cord NEMA 5-15 plug, 8 to 10 ft typical, conforms to UL471 requirements, Vaccine storage power

cord warning label

110-120V AC: 15 A (minimum) Facility Electrical Requirement

> 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

memory, field installable, and visual & audible temp alarm

Pharmacy refrigerator/freezer toolkit and temperature logs

## **Refrigeration System**

**Included Accessories** 

Agency Listing and Certification

Compressor Hermetic, high performance EPA SNAP compliant, R600a, Isobutane Refrigerant Condenser Tube and grid construction, fanless Evaporator Plate wall

Defrost Cycle optimized, zero energy

## Performance

Uniformity<sup>1</sup> (Cabinet air) +/- 1.4°C Stability<sup>2</sup> (Cabinet air) +/- 1.3°C +/-1.7°C Maximum temperature variation

Temperature did not exceed 6.5°C at any probe for all required NSF/ANSI 456 testing Temperature rise after 8 sec door

openings scenarios3

Recovery after 3 min door opening All probes recover to under 8°C within 6 min.

1.15 KWh/day⁴ Energy consumption

1.67 KWh/day (237 BTU/h)4 Average heat rejection Noise pressure level (dBA) 41 or less installed

Pull down time to nominal operating 42 min

temp

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 Alarms

Standard for Vaccine Storage

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**

Undercounter 5.2 cu. ft. Solid Door Freestanding Vaccine Refrigerator - Certified to NSF/ANSI 456 Standard for Vaccine Storage

#### Certifications

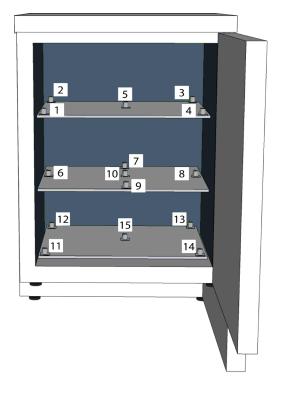




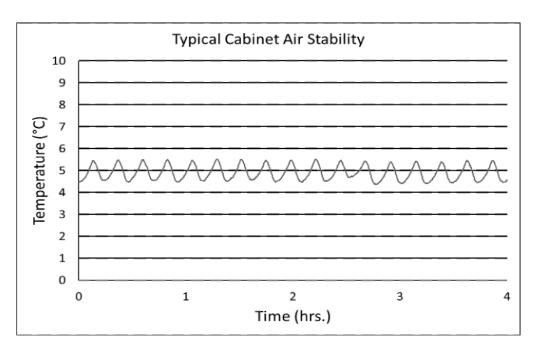


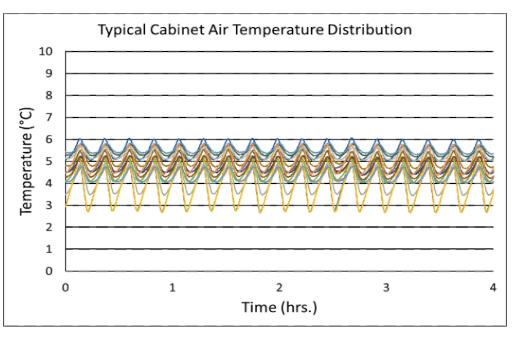
\*-one or more of these certifications may apply to this unit.

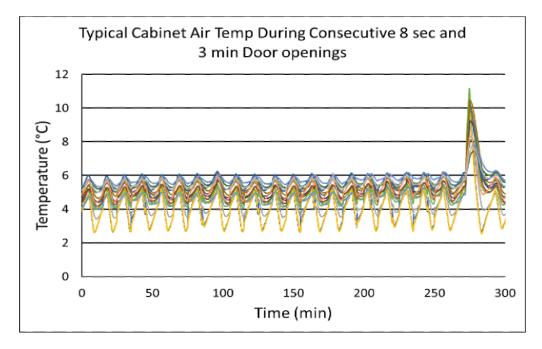
Temper	Temperature Probes								
Probe	Ave	Min	Max						
1	3.9	2.7	5.2						
2	4.3	4.0	4.8						
3	4.1	3.4	4.9						
4	3.9	2.7	5.2						
5	4.3	4.0	4.8						
6	4.5	4.0	5.2						
7	4.8	4.4	5.3						
8	4.7	4.2	5.2						
9	4.9	4.4	5.5						
10	5.1	4.6	5.6						
11	5.5	5.0	6.1						
12	5.5	5.2	5.8						
13	5.5	5.3	5.8						
14	5.0	4.4	5.8						
15	5.3	5.0	5.7						



#### **Temperature Charts**









# **Product Data Sheet**

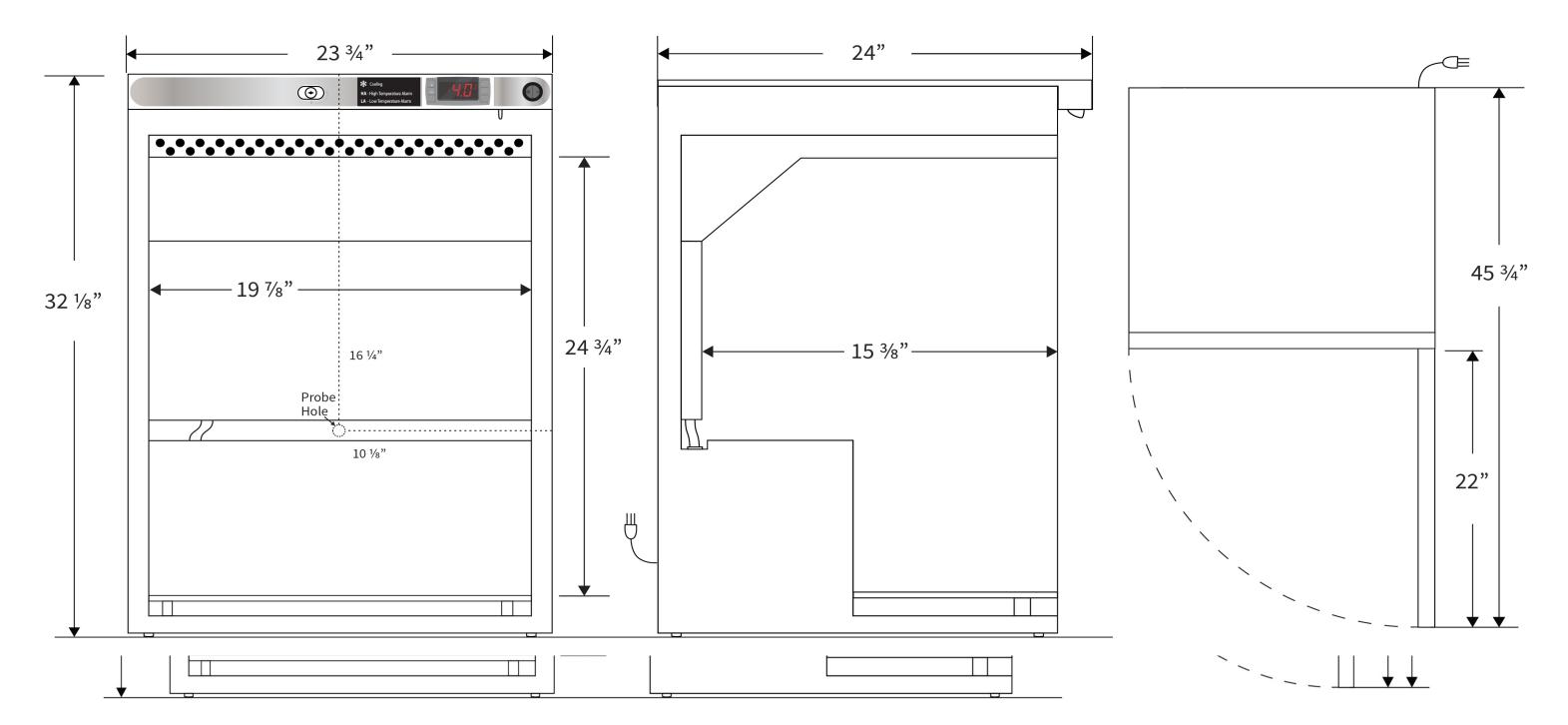
Undercounter 5.2 cu. ft. Solid Door Freestanding Vaccine Refrigerator - Certified to NSF/ANSI 456 Standard for Vaccine Storage

# **Images**





Dimensions								
	Width	Depth	Height	Door Swing	Total open Depth			
Exterior	23 3/4"	24"	32 1/8"	22"	45 3/4"			
Interior	19 7/8"	15 3/8"	24 3/4"					



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

Contact			
Phone	866-674-7220		
Email	info@bsilab.com		
Rev_10042022			