

# CMEB-REF-ST-12-S-NSF

#### **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 Standard line provides multi-functional features in a cost-effective design.

These 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

Storage capacity 12 cu. ft. gross volume

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

lock

Shelves Four shelves (three 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®, Omnicell® and AcuDose RX® compatible

General warranty One (1) year 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

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 Pharmacy refrigerator/freezer toolkit and temperature logs

## **Refrigeration System**

Compressor

Refrigerant

EPA SNAP compliant, R290, propane

Condenser

Fin and tube design, high efficiency fan

Evaporator

Defrost

Evaporator

Cycle optimized, zero energy

### Performance

Uniformity<sup>1</sup> (Cabinet air) +/- 0.7°C Stability<sup>2</sup> (Cabinet air) +/- 1.3°C Maximum temperature variation +/-1.1°C

(Cabinet air)

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 Energy consumption

1.32 KWh/day<sup>4</sup>

Average heat rejection

2.21 KWh/day (315 BTU/h)<sup>4</sup>

Noise pressure level (dBA)

49 or less installed

Pull down time to 4°C nominal operating temp

g 30 min

## Controller, Configuration, Alarms and Monitoring

Controller technology

Temperature 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)

Calibration

Calibrated using a NIST traceable device, certificate included

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

All probes recover to under 8°C within 2.5 min.

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**

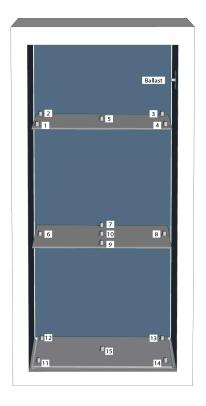




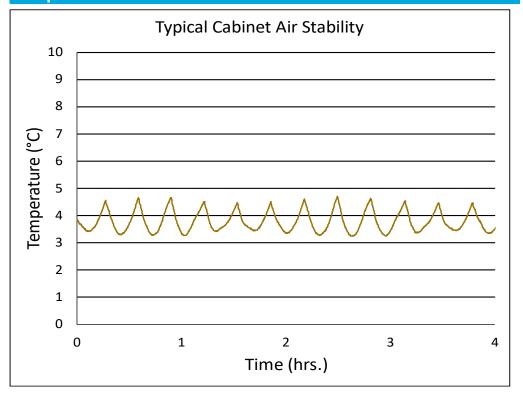


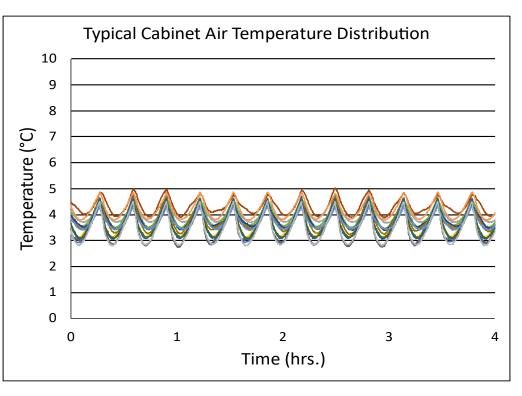
\*-one or more of these certifications may apply to this unit.

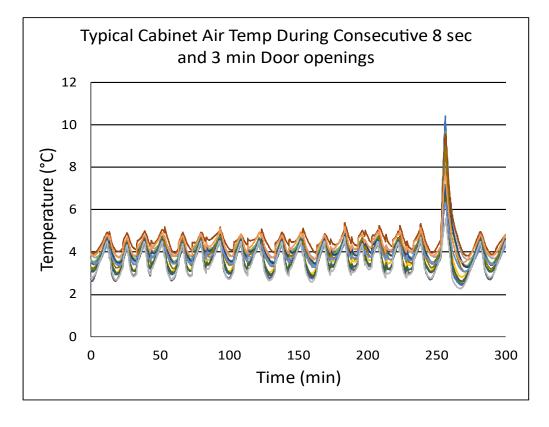
| Temperature Probes |     |     |     |  |  |  |  |
|--------------------|-----|-----|-----|--|--|--|--|
| Probe              | Ave | Min | Max |  |  |  |  |
| 1                  | 3.5 | 2.7 | 4.7 |  |  |  |  |
| 2                  | 3.8 | 3.4 | 4.5 |  |  |  |  |
| 3                  | 4.0 | 3.7 | 4.5 |  |  |  |  |
| 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**











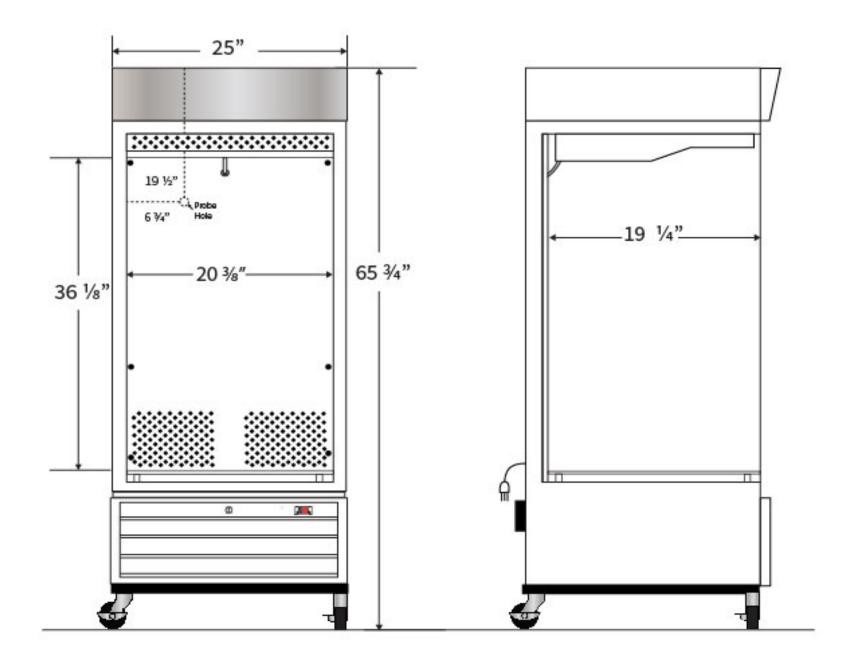
Upright 12 cu. ft. Solid Door Refrigerator, High Performance - Certified to NSF/ANSI 456 Standard for Vaccine Storage

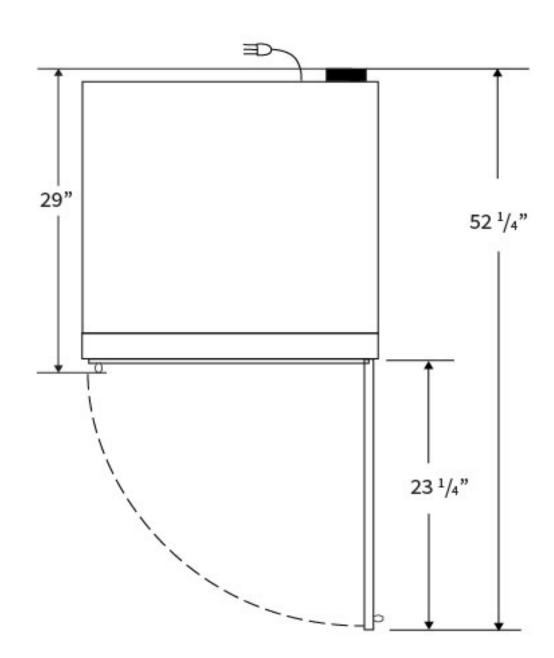
## **Images**





| 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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