

CMEB-REF-P-23-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 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 Application

Single Solid Door Pharmacy/Vaccine Upright Refrigerator Description Operational environment Indoor use only, +18°C to +26°C (+65°F to +78°F), <70% RH

Storage capacity 23 cu. ft. gross volume

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

Seven shelves (six adjustable/one fixed) with guard rail on back **Shelves**

3 1/2" Swivel Casters(two locking) Mounting

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

Airflow management Forced Air technology, patent pending

External probe access Rear wall port (3/4") dia.

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

White powder coated steel **Exterior materials**

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 216 lbs. 256 lbs. **Shipping Weight** 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

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

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

Temperature did not exceed 6.7°C at any probe for all required NSF/ANSI 456 testing protocols³

UL471 standard, hydrocarbon refrigerant safety. Energy Star Certified

Included Accessories Pharmacy refrigerator/freezer toolkit and temperature logs

Refrigeration System

Compressor Hermetic, high performance EPA SNAP compliant, R290, propane Refrigerant Condenser Fin and tube design, high efficiency fan Fin and tube design, high efficiency fan Evaporator Cycle optimized, zero energy Defrost

Performance

Uniformity¹ (Cabinet air) +/- 1.0°C Stability² (Cabinet air) +/- 1.1°C Maximum temperature variation (Cabinet +/-1.4°C

Temperature rise after 8 sec door

openings

Recovery after 3 min door opening

Energy consumption

Average heat rejection

Noise pressure level (dBA)

Pull down time to 4°C nominal operating

Controller, Configuration, Alarms and Monitoring

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

1.32 KWh/day4

30 min

49 or less installed

2.21 KWh/day (315 BTU/h)4

NSF/ANSI 456 Standard for Vaccine Storage compliant digital temperature display and alarm Display technology

All probes recover to under 8°C within 6.5 min.

module with battery back-up, F/C switchable.

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) Calibrated using a NIST traceable device, certificate included Calibration

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

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

Certifications

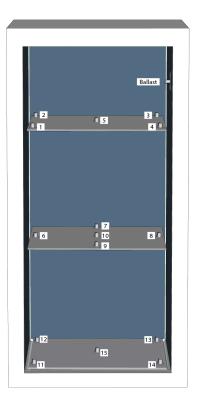




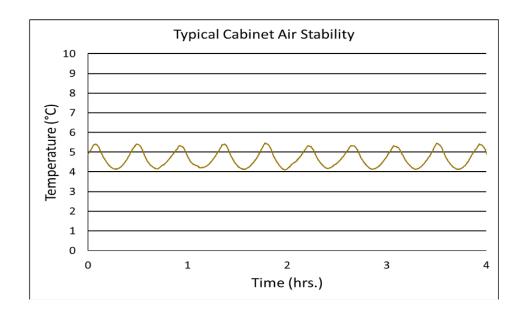


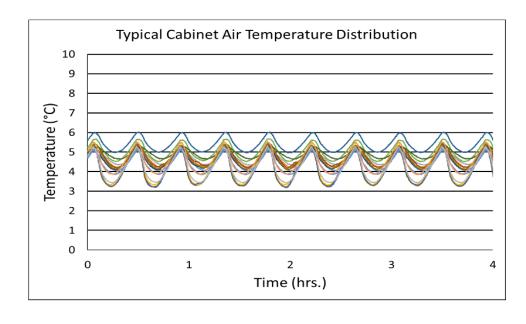
*-one or more of these certifications may apply to this unit.

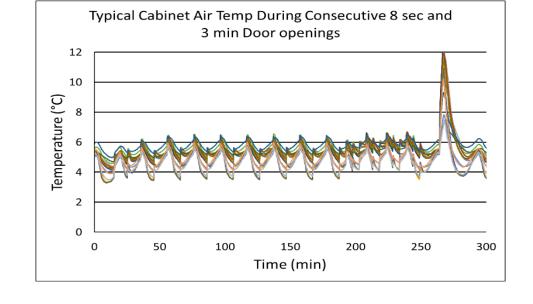
Temperature Probes							
Probe	Ave	Min	Max				
1	4.1	3.2	5.4				
2	4.6	4.2	5.2				
3	4.7	4.3	5.1				
4	4.2	3.3	5.5				
5	4.5	4.0	5.1				
6	5.0	4.5	5.7				
7	4.6	4.1	5.4				
8	4.7	4.2	5.4				
9	4.1	3.2	5.5				
10	4.7	4.1	5.5				
11	5.4	5.0	6.0				
12	4.9	4.6	5.3				
13	4.4	3.8	5.1				
14	4.5	3.8	5.5				
15	4.2	3.4	5.3				



Temperature Charts









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Images





Dimensions					
	Width	Depth	Height	Door Swing	Total open Depth
Exterior	26 7/8"	34 7/8"	81 3/4"	25"	58 1/4"
Interior	21 3/4"	25 1/8"	49 1/4"		

