

NSBR492WSGCR/0

Product Description

CorepointTM Scientific Blood Bank Refrigerators are designed in accordance with FDA listed Class II medical devices. In addition, blood bank refrigerators also conform to the requirements set forth by AABB for the refrigerated cold storage of blood-based products.

Backed by optimal temperature control and EPA SNAP compliant refrigerants, these high-performance units protect blood, prevent waste, and allow for peak delivery. Corepoint Scientific blood bank refrigerators utilize smart controllers and feature a full array of alarms, LED interior lighting, stainless steel interiors, sliding drawers and probe access port.

General Description and Application

Description Double glass door Blood Bank refrigerator

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

Storage capacity 49 cu. ft. gross volume, up to 832 blood bags with optional 8th drawer per door

Two swing glass doors, self-closing, stay position at 100° open, right and left hinged to open from

the middle, non-reversible, magnetic sealed gasket, keyed lock

Drawers

7 drawers standard per door (14 drawers total) with option for 8th drawer per door (16 drawers

total), 304 SS drawers, 65 lb. capacity each
Mounting and Installation 4 swivel casters, front casters locking

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

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 Key lock

General warranty Two (2) years parts and labor warranty, excluding calibrations

Compressor warranty Seven (7) years compressor warranty

Product Weight 731 lbs. (14 drawers) Shipping Weight 850 lbs. (14 drawers)

Rated Amperage 4.5 Amps

Power Plug/Power Cord Hospital grade, NEMA 5-15, 9 ft nominal (2.7 m)

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

Agency Listing and Certification FDA listed Class II medical device, 21CFR part 820 compliant, ETL, CETL Listed (certified to UL471

standard, hydrocarbon refrigerant safety)

Optional Accessories

Additional 8th drawer per door, Chart paper, Mounting anchor, Upper solid ballast, Lower glycerol

bottle kit (factory install only), IQ/OQ/PQ

Refrigeration System

Compressor Hermetic, variable speed (VSC). Rated speed range: 1300-4000 rpm

Refrigerant EPA SNAP compliant, R600a, Isobutane

Condenser Anti-fouling tube and grid design, ultra-quite multi-speed fan

Evaporator Fin and tube design, high efficiency fan Defrost Cycle optimized, zero energy

Performance

Uniformity¹ (Cabinet air) +/- 0.4°C Stability² (Cabinet air) +/- 0.5°C Maximum temperature variation (Cabinet +/- 0.7°C

+/- 0.7 C

Stability² (Simulator ballast) +/- 0.1°C Stability² (Simulator bag) +/- 0.1°C

Temperature Rise after 8 sec Door Openings Temperature did not exceed 4.5°C at any probe Recovery after 3 min Door Opening All probes under 6.2°C throughout opening

Energy Consumption 1.47 KWh/day³

Average Heat Rejection 3.27 KWh/day (320 BTU/h)³ Noise Pressure Level (dBA) 38 or less installed

Controller, Configuration, Alarms and Monitoring

Controller technology Proportional Integral Derivative (PID) microprocessor with LCD display

Battery Backup 24V high capacity battery, controller, all alarms active, temperature monitoring DAQ and event

logging active on battery backup

Digital Communication RS-485 (MODBUS)
Chart Recorder 6" paper, inkless
Temperature setpoint range 1°C to 10°C

Display probe Calibrated, stainless steel

External alarm connection State switching remote alarm contacts

Alarms

Visual and audible indicators, Power failure, Temperature sensor failure, Battery voltage monitor

and replacement, High / Low temperature, Door ajar

Simulator ballast Upper probe: 4 oz. (120 ml) bottle, 50% glycerol mixture. Lower probe: Solid thermal media

Performance data acquired at 22°C ambient, 4°C nominal set point in an empty cabinet with drawers using validation ballast probes, 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 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.

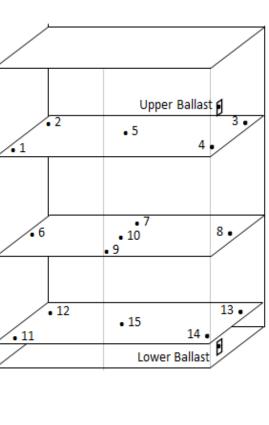
Product Data Sheet

49 cu. ft. Blood Bank Refrigerator, High Performance, FDA listed Class II medical device

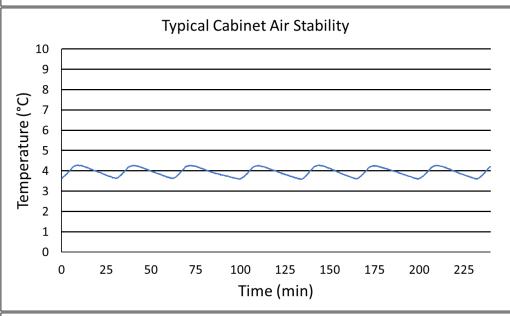
Certifications

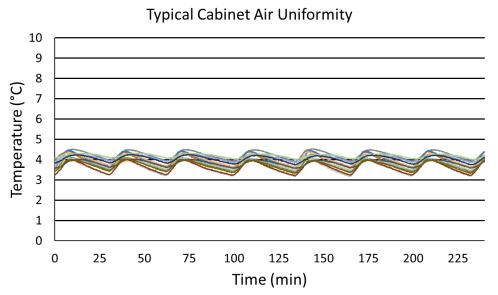


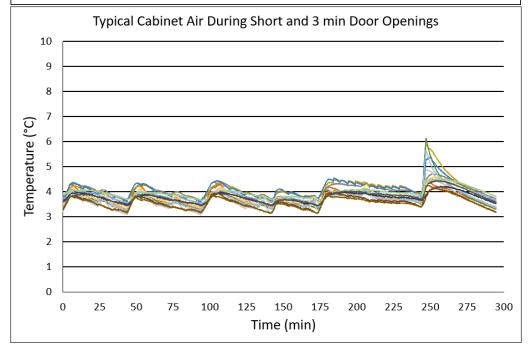
Temperature Probes							
Probe	Ave	Min	Max				
1	3.9	3.4	4.5				
2	4.2	3.9	4.5				
3	3.9	3.6	4.3				
4	4.0	3.6	4.4				
5	3.8	3.4	4.1				
6	4.1	3.8	4.3				
7	4.0	3.6	4.4				
8	3.6	3.2	4.2				
9	3.8	3.5	4.1				
10	3.8	3.4	4.2				
11	4.2	4.0	4.3				
12	4.0	3.7	4.3				
13	3.6	3.2	4.0				
14	3.8	3.6	4.0				
15	3.7	3.3	4.0	12			
Bal	4.2	4.1	4.3				
Bag	4.2	4.1	4.3				
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Typical Simulator Ballast and Bag Stability Typical Simulator Bal











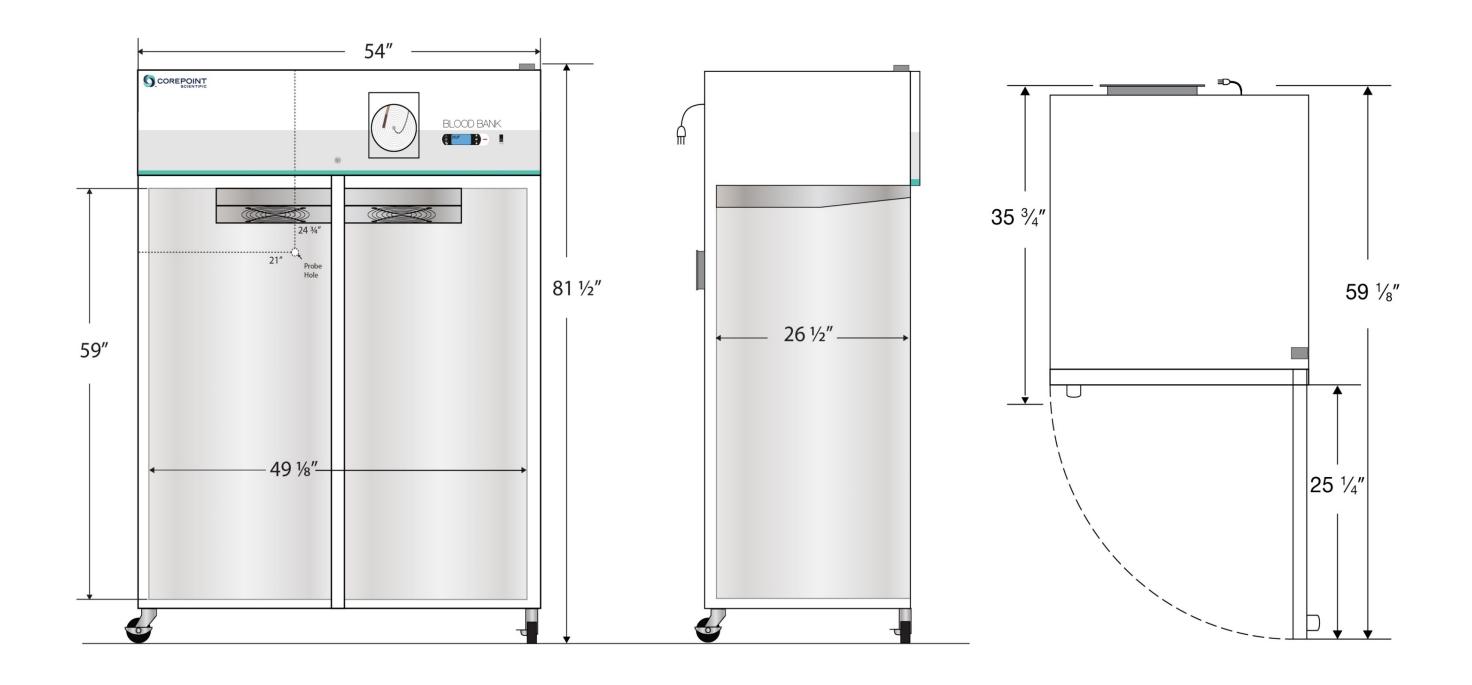
49 cu. ft. Blood Bank Refrigerator, High Performance, FDA listed Class II medical device

Images





Dimensions								
	Width	Depth	Height	Door Swing	Total open Depth			
Exterior	54"	35 3/4"	81 1/2"	25 1/4"	59 1/8"			
Interior	49 1/8"	26 1/2"	59"					



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