

NSBR231WSGCR/0

Product Description

Corepoint® 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.

Images





Certifications

Storage capacity (cu. ft)





23 cu. ft gross volume

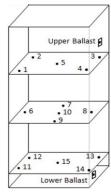


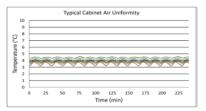
Door	Single Swing Glass Right Hinged Door
Shelves	N/A
Drawers	7 drawers standard with option for 8th, 304 SS drawers, 65 lb. capacity each
Mounting and Installation	4 swivel casters, front casters locking
Interior lighting	Shielded, switched LED lighting, full coverage, balanced spectrum
External probe access	Rear wall port (3/4") dia.
nsulation	Cabinet is foamed-in-place with EPA compliant high density urethane foam
xterior 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
roduct Weight (lbs)	414
hipping Weight (lbs)	473
Rated Amperage	3 Amps
ower Plug/Power Cord	Hospital grade, NEMA 5-15, 9 ft nominal (2.7 m)
acility Electrical Requirement	110-120V AC: 15 A (minimum)
gency Listing and Certification	FDA listed Class II medical device, 21CFR part 820 compliant, ETL, CETL Listed (certified to UL471 standard, hydrocarbon refrigerant safety)
	Product approved as AABB standards compliant for refrigerated blood products cold storage. See listing at aabb.org/standards-compliant. Energy Start Certified
ormance	
Uniformity ¹ (Cabinet air)	storage. See listing at aabb.org/standards-compliant. Energy Start Certified
Jniformity ¹ (Cabinet air) Stability ² (Cabinet air) Maximum temperature variation	storage. See listing at aabb.org/standards-compliant. Energy Start Certified +/- 0.7°C
Jniformity¹ (Cabinet air) Stability² (Cabinet air) Maximum temperature variation Cabinet air)	storage. See listing at aabb.org/standards-compliant. Energy Start Certified +/- 0.7°C +/- 0.5°C
Jniformity' (Cabinet air) Stability' (Cabinet air) Maximum temperature variation Cabinet air) Stability' (Simulator ballast)	storage. See listing at aabb.org/standards-compliant. Energy Start Certified +/- 0.7°C +/- 0.8°C
Uniformity [†] (Cabinet air) Stability ² (Cabinet air) Maximum temperature variation Cabinet air) Stability ² (Simulator ballast) Stability ² (Simulator bag)	storage. See listing at aabb.org/standards-compliant. Energy Start Certified +/- 0.7°C +/- 0.8°C +/- 0.1°C
Uniformity ¹ (Cabinet air) stability ² (Cabinet air) Maximum temperature variation Cabinet air) stability ² (Simulator ballast) stability ² (Simulator bag) remperature Rise after Short Door Openings	storage. See listing at aabb.org/standards-compliant. Energy Start Certified +/- 0.7°C +/- 0.8°C +/- 0.1°C +/- 0.1°C
Uniformity ¹ (Cabinet air) Stability ² (Cabinet air) Maximum temperature variation Cabinet air) Stability ² (Simulator ballast) Stability ² (Simulator bag) Femperature Rise after Short Door Openings Recovery after Short Door Openings	storage. See listing at aabb.org/standards-compliant. Energy Start Certified +/- 0.7°C +/- 0.8°C +/- 0.1°C +/- 0.1°C Temperature did not exceed 4.9°C at any probe
formance Uniformity¹ (Cabinet air) Stability² (Cabinet air) Maximum temperature variation (Cabinet air) Stability² (Simulator ballast) Stability² (Simulator bag) Temperature Rise after Short Door Openings Recovery after Short Door Openings Energy¹ Consumption (KWh/day) Average¹ Heat Rejection (BTU/hr)	storage. See listing at aabb.org/standards-compliant. Energy Start Certified +/- 0.7°C +/- 0.5°C +/- 0.8°C +/- 0.1°C Temperature did not exceed 4.9°C at any probe All probes under 7.2°C throughout opening

Product Data Sheet

23 CF Blood Bank Refrigerator Glass Door Chart Recorder

Temperature Probes 1, 2									
Probe	Ave	Min	Max						
1	4.5	4.3	4.6						
2	4.2	4.0	4.4						
3	3.8	3.6	4.0						
4	4.1	3.9	4.3						
5	4.5	4.3	4.3						
6	3.9	3.7	3.7						
7	3.8	3.5	4.2						
8	3.5	3.0	4.0						
9	3.6	3.4	4.0						
10	3.7	3.5	4.0						
11	4.1	4.0	4.2						
12	4.0	3.7	4.1						
13	3.5	3.2	3.8						
14	4 3.9 3.8 4		4.0						
15	3.8 3.6 3.9		3.9						
Bal	4.5	4.4 4.6							
Bag	4.5	4.4	4.6						





Performance data acquired at 22°C ambient, 4°C nominal set point in an empty cabinet with shelves using air 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.

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-quiet multi-speed fan

Evaporator Fin and tube design, high efficiency fan

Defrost Cycle optimized, zero energy

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 (MOBBUS)

244 riight capacity battery, controller, all alarms active, temperature monitoring DAQ and event logging Digital Communication

RS-485 (MOBBUS)

Data Transfer Non-applicable
Chart Recorder 6" paper, inkless
Adjustable Temperature Range 1°C to 10°C

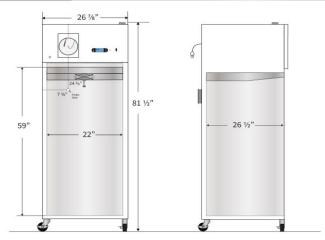
External alarm connection State switching remote alarm contacts

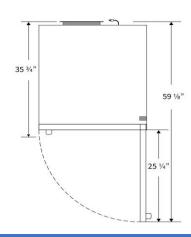
Alarms Visual and audible indicators, Power failure, Temperature sensor failure, Battery voltage monitor and replacement, High / Low temperature, Door ajar

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

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

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	Width (in.)	Depth (in.)	Height (in.)	Door Swing (in.)	Total open Depth (in.)
Exterior	26 7/8"	35 3/4"	81 1/2"	25 1/4"	59 1/8"
Interior	22"	26.1/2"	EQ"		_





Contact

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