

# NSBR492WSW/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.

### **General Description and Application**

Description Double solid door Blood Bank refrigerator

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

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

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

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

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

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

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

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

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

White powder coated steel Exterior materials

Access control Key lock

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

Seven (7) years compressor warranty Compressor warranty

636 lbs. (14 drawers) **Product Weight** 755 lbs. (14 drawers) **Shipping Weight** 

Rated Amperage 4.5 Amps

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

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

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

standard, hydrocarbon refrigerant safety)

Additional 8<sup>th</sup> drawer per door, Chart paper, Mounting anchor, Upper solid ballast, Lower glycerol **Optional Accessories** 

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

### **Refrigeration System**

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

EPA SNAP compliant, R600a, Isobutane Refrigerant

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

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

## **Performance**

Uniformity<sup>1</sup> (Cabinet air) +/- 0.4°C +/- 0.5°C Stability<sup>2</sup> (Cabinet air) +/- 0.7°C Maximum temperature variation (Cabinet

Stability<sup>2</sup> (Simulator ballast) +/- 0.1°C

Stability<sup>2</sup> (Simulator bag) +/- 0.1°C

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

**Energy Consumption** 1.47 KWh/day<sup>3</sup>

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

### Controller, Configuration, Alarms and Monitoring

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

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

logging active on battery backup

RS-485 (MODBUS) **Digital Communication** 

Chart Recorder n/a

1°C to 10°C Temperature setpoint range

Display probe Calibrated, stainless steel

External alarm connection State switching remote alarm contacts

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

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.

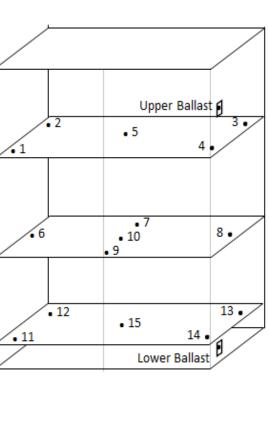
#### **Product Data Sheet**

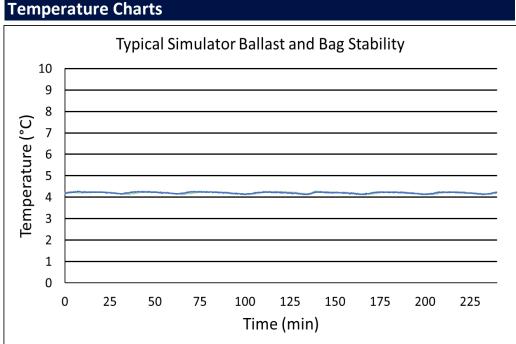
49 cu. ft. Blood Bank Refrigerator, High Performance, FDA listed Class II medical device

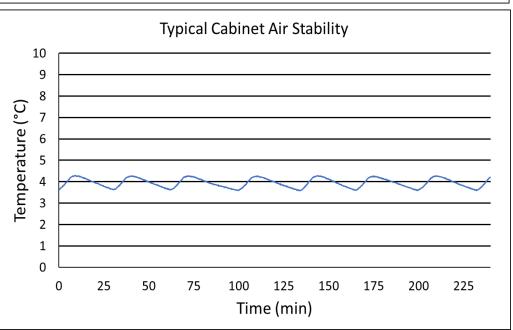
#### Certifications

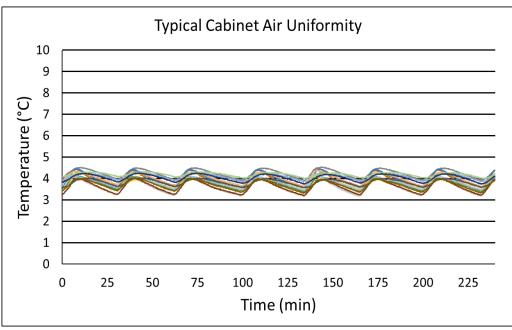


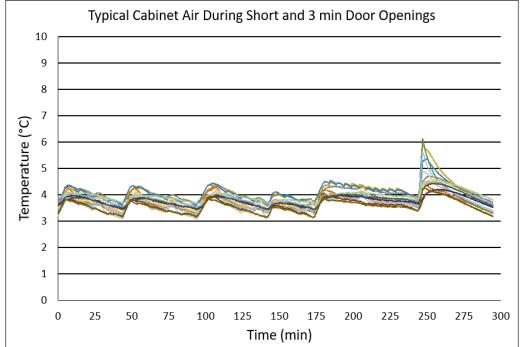
Temperature Probes							
Probe	Ave	Min	Max				
1	3.9	3.4	4.5				
2	4.2	3.9	4.5				
3	3.9	3.6	4.3				
4	4.0	3.6	4.4				
5	3.8	3.4	4.1				
6	4.1	3.8	4.3				
7	4.0	3.6	4.4				
8	3.6	3.2	4.2				
9	3.8	3.5	4.1				
10	3.8	3.4	4.2				
11	4.2	4.0	4.3				
12	4.0	3.7	4.3				
13	3.6	3.2	4.0				
14	3.8	3.6	4.0				
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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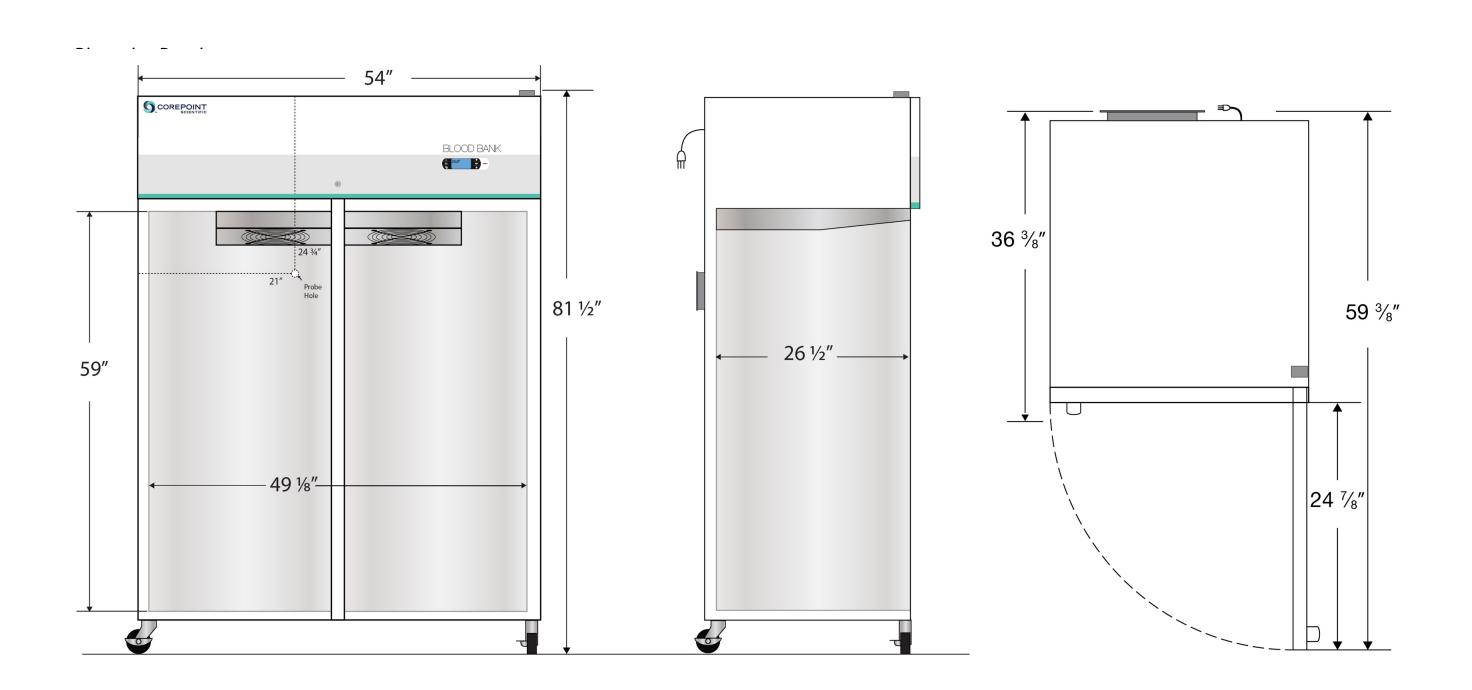
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# **Images**





Dimensions								
	Width	Depth	Height	Door Swing	Total open Depth			
Exterior	54"	36 3/8'"	81 1/2"	24 7/8"	59 3/8"			
Interior	49 1/8"	26 1/2"	59"					



HS-MKT-DOC-0008\_Rev 1