

Product Data Sheet

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

NSBR492WSG/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.

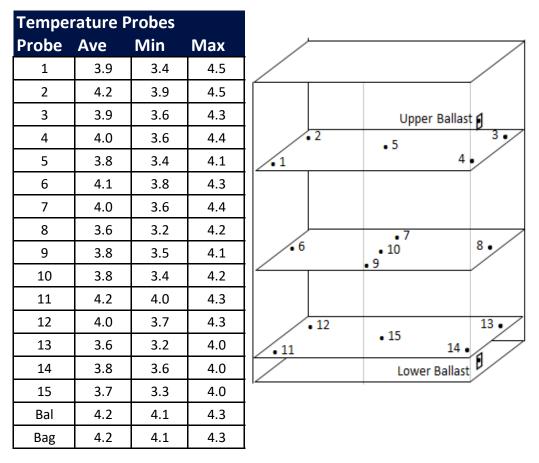
Backed by optimal temperature control and EPA SNAP compliant refrigerants, these high-performance units protect blood, prevent waste, and allow for peak delivery. CorepointTM Scientific blood bank refrigerators utilize smart controllers and feature a full array of alarms, LED interior lighting, stainless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

General Description and Applica	ition	
Description	scription 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 8 th drawer per door	
Door	Two swing glass doors, self-closing, stay position at 100° open, right and left hinged to oper 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	on 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	roduct Weight 726 lbs. (14 drawers)	
Shipping Weight	Shipping Weight 845 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 8 th drawer per door, Chart paper, Mounting anchor, Upper solid ballast, Lower glycero 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		

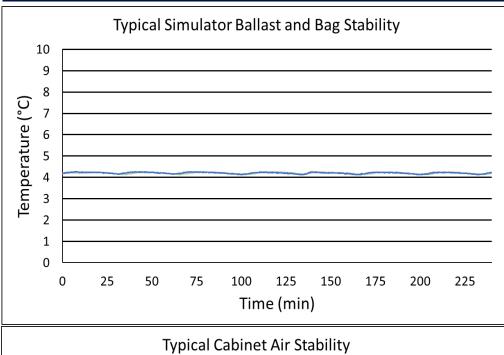
Certifications





Temperature Charts

10



Uniformity ¹ (Cabinet air)	+/- 0.4°C
Stability ² (Cabinet air)	+/- 0.5°C
Maximum temperature variation (Cabinet	+/- 0.7°C
air)	
Stability ² (Simulator ballast)	+/- 0.1°C
Stability ² (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/day ³
Average Heat Rejection	3.27 KWh/day (320 BTU/h) ³
Noise Pressure Level (dBA)	38 or less installed

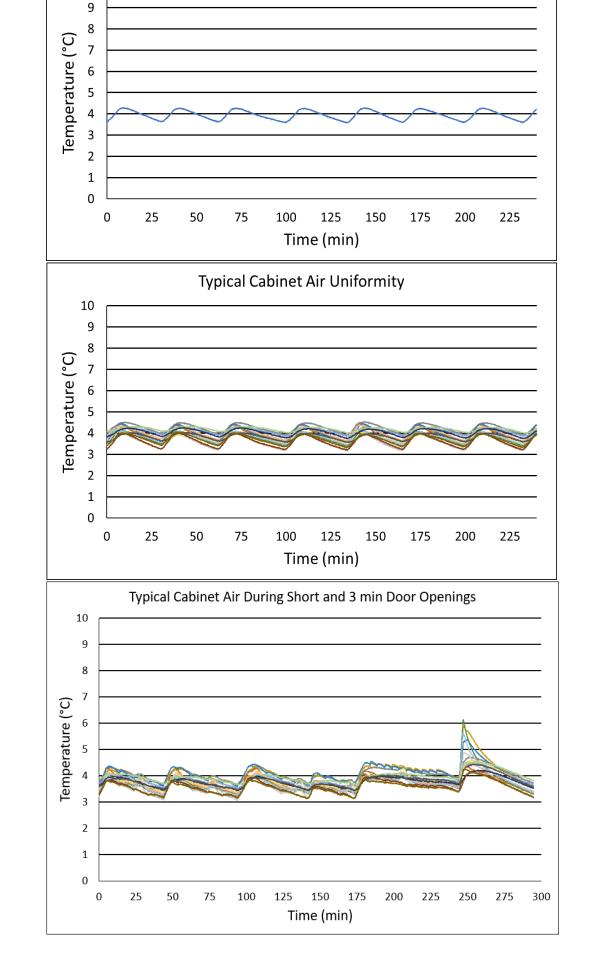
Controller, Configuration, Alarms and Monitoring			
Controller technology	Proportional Integral Derivative (PID) microprocessor with LCD display		
Battery Backup	24V high capacity battery, controller, all alarms active, temperature monitoring DAQ and event logging active on battery backup		
Digital Communication	RS-485 (MODBUS)		
Chart Recorder	n/a		
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.

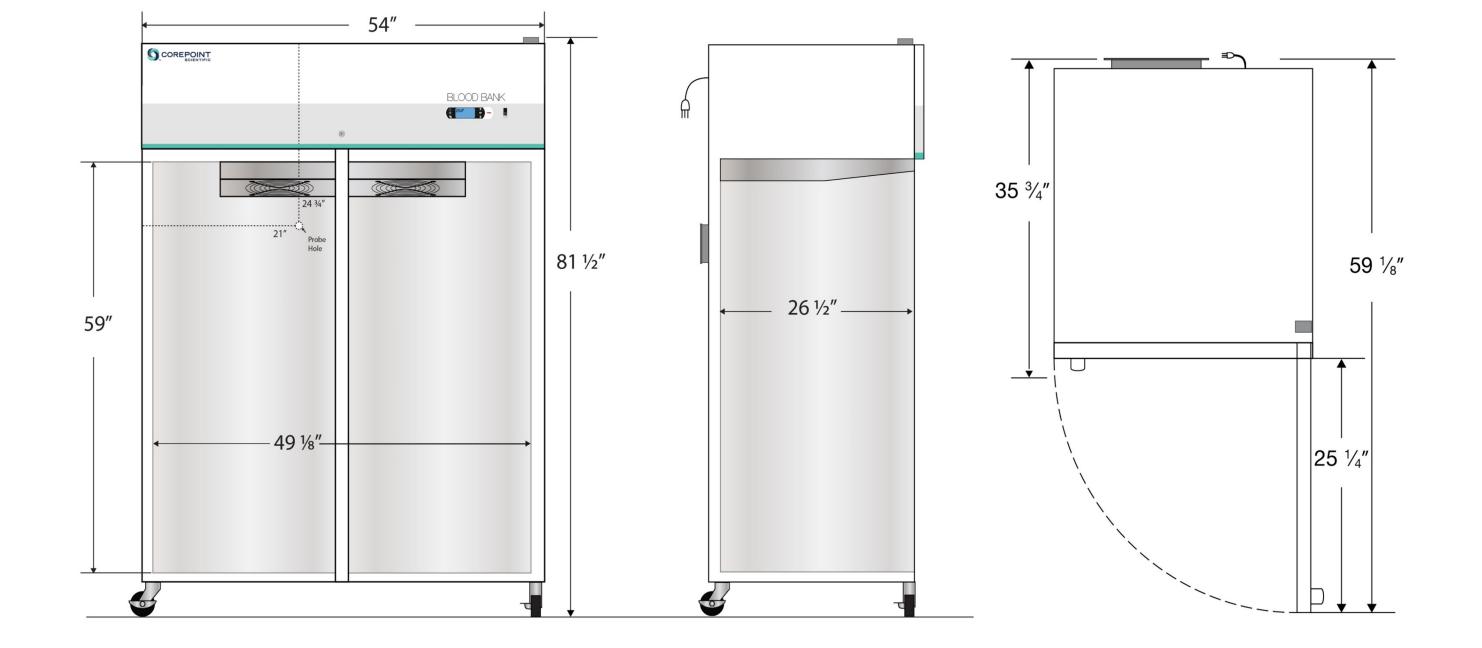




Product Data Sheet 49 cu. ft. Blood Bank Refrigerator, High Performance, FDA listed Class II medical device



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"		



Contact			
Customer Service	800-648-4041 Option 3	customerservice@horizonscientific.com	
Technical Service	800-648-4041 Option 5, Parts Option 4	technicalservice@horizonscientific.com	
HS-MKT-DOC-0006_Rev 1			