

# NSBF231WSWCR/0

#### **Product Description**

Corepoint<sup>TM</sup> Scientific Plasma Freezers are designed in accordance with FDA listed Class II medical devices. In addition, plasma freezers 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 Plasma freezers 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**

Single solid door plasma freezer Description

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

Storage capacity 23 cu. ft. gross volume, up to 480 plasma boxes with optional 8<sup>th</sup> drawer

One swing solid door, self-closing, stay position at 100° open, right hinged, non-reversible, Door

magnetic sealed gasket, keyed lock

7 drawers standard with option for 8<sup>th</sup>, 304 SS drawers, 65 lb. capacity each Drawers

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

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

Compressor warranty Seven (7) years compressor warranty

360 lbs. (7 drawers) **Product Weight** 419 lbs. (7 drawers) **Shipping Weight** 

Rated Amperage 7 Amps

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

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

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**

Hermetic, variable speed (VSC). Rated speed range: 2000-4500 rpm Compressor

EPA SNAP compliant, R290 Refrigerant

Fin and tube design, high efficiency fan Condenser Fin and tube design, high efficiency fan Evaporator

Defrost Cycle optimized, automatic

## Performance

Uniformity<sup>1</sup> (Cabinet air) +/- 0.7°C Stability<sup>2</sup> (Cabinet air) +/- 0.1°C Maximum temperature variation (Cabinet +/- 0.7°C

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

Temperature Rise after Short Door

Temperature did not exceed -34.5°C at any probe

**Openings** 

All probes under -29.6°C throughout opening Recovery after 1 min Door Opening

**Energy Consumption** 8.57 KWh/day<sup>3</sup>

12.03 KWh/day (320 BTU/h)<sup>3</sup> Average Heat Rejection

Noise Pressure Level (dBA) 43 or less installed

## **Controller, Configuration, Alarms and Monitoring**

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

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

logging active on battery backup

**Digital Communication** RS-485 (MODBUS) 6" paper, inkless Chart Recorder -15°C to -35°C Temperature setpoint range

Calibrated, stainless steel Display probe

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, -35°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.

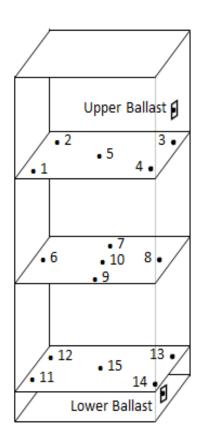
23 cu. ft. Plasma Freezer, High Performance, FDA listed Class II medical device

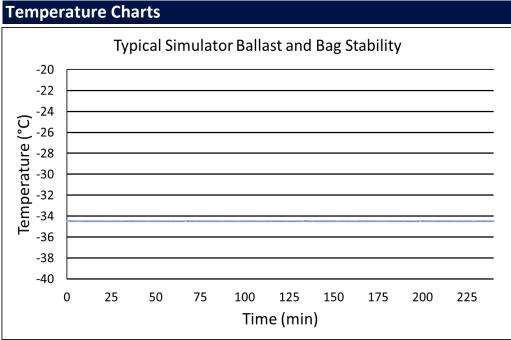
#### **Certifications**

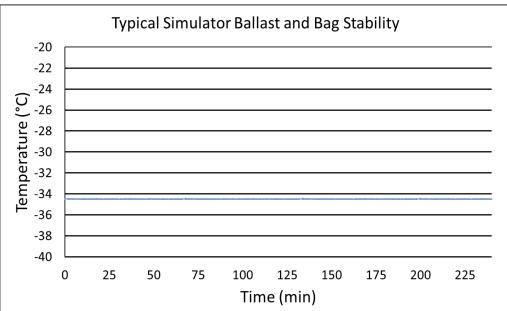
**Product Data Sheet** 

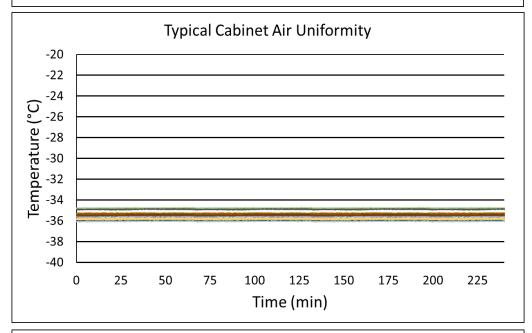


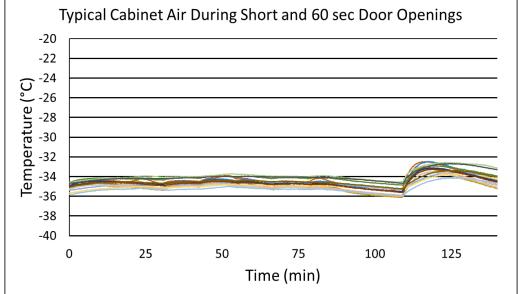
Temperature Probes								
Probe	Ave	Min	Max					
1	-35.3	-35.3	-35.2					
2	-35.6	-35.7	-35.6					
3	-35.9	-35.9	-35.9					
4	-35.5	-35.5	-35.4					
5	-34.9	-35.0	-34.9					
6	-35.6	-35.6	-35.5					
7	-35.8	-35.8	-35.7					
8	-35.9	-35.9	-35.8					
9	-35.8	-35.9	-35.8					
10	-36.1	-36.1 -36.1						
11	-34.8	-34.8 -34.8						
12	-35.4	-35.4 -35.4 -35						
13	-35.5	-35.6	-35.5					
14	-34.9	-34.9	-34.8					
15	-35.3	-35.4 -35.3						
Bal	-34.5	4.5 -34.5 -						
Bag	-34.5	5 -34.5 -34.5						

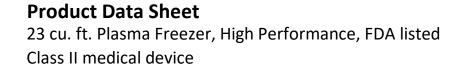












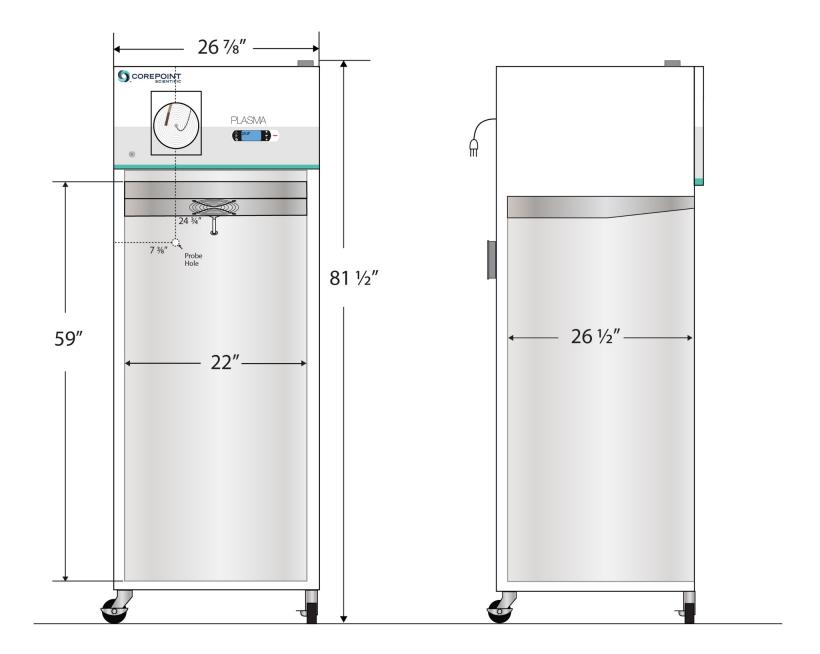


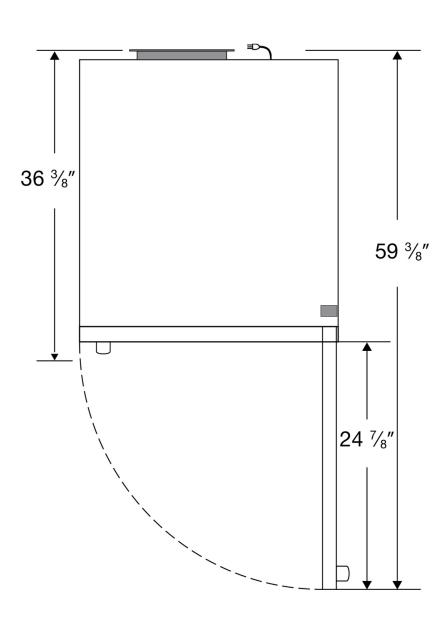
## **Images**





Dimensions								
		Width	Depth	Height	Door Swing	Total open Depth		
Exterio	or	26 7/8"	36 3/8"	81 1/2"	24 7/8"	59 3/8"		
Interio	or	22"	26 1/2"	59"				





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