

Product Data Sheet 49 cu. ft. Plasma Freezer, High Performance, FDA listed Class II medical device

NSBF492WSWCR/0

Product Description

CorepointTM 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 frozen 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 Plasma freezers utilize smart controllers and feature a full array of alarms, LED interior lighting, stainless steel interiors, sliding drawers and probe access port.

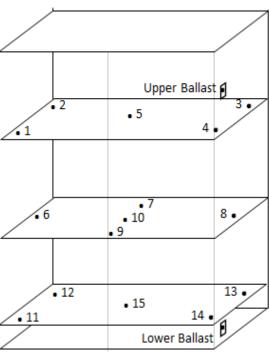
| Description | Double solid door plasma freezer | |
|----------------------------------|--|--|
| Operational environment | Indoor use only, +18°C to +26°C (+65°F to +78°F), <70% RH | |
| Storage capacity | 49 cu. ft. gross volume, up to 960 plasma boxes with optional 8 th drawer | |
| Door | Two swing solid 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 | |
| nterior 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 | |
| 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 | 675 lbs. (14 drawers) | |
| Shipping Weight | 794 lbs. (14 drawers) | |
| Rated Amperage | 7.6 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) | |
| | Product approved as AABB standards compliant for frozen blood products cold storage. See listin at aabb.org/standards-compliant. | |
| 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: 2000-4500 rpm | | |
| Refrigerant | EPA SNAP compliant, R290 | | |
| Condenser | Fin and tube design, high efficiency fan | | |
| Evaporator | Fin and tube design, high efficiency fan | | |
| Defrost | Cycle optimized, automatic | | |

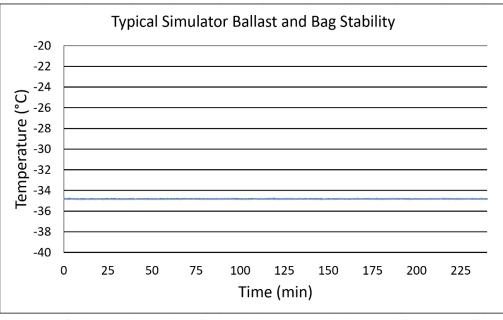
Certifications

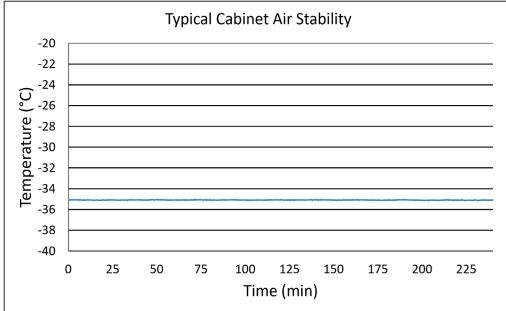


| Temperature Probes | | | | |
|--------------------|-------|-------|-------|-----------|
| Probe | Ave | Min | Max | |
| r | 1 | 1 | 1 | |
| 1 | -35.5 | -35.6 | -35.4 | |
| 2 | -35.3 | -35.4 | -35.3 | |
| 3 | -35.4 | -35.5 | -35.3 | |
| 4 | -35.1 | -35.2 | -35.0 | • 2 |
| 5 | -36.5 | -36.5 | -36.4 | <u>_1</u> |
| 6 | -36.4 | -36.5 | -36.3 | |
| 7 | -36.5 | -36.6 | -36.5 | |
| 8 | -36.4 | -36.4 | -36.3 | |
| 9 | -36.7 | -36.8 | -36.7 | •6 |
| 10 | -36.5 | -36.6 | -36.5 | |
| 11 | -36.8 | -36.9 | -36.8 | |
| 12 | -36.9 | -37.0 | -36.9 | • 12 |
| 13 | -37.3 | -37.4 | -37.2 | • 11 |
| 14 | -36.8 | -36.9 | -36.8 | |
| 15 | -36.2 | -36.3 | -36.1 | |
| Bal | -34.8 | -34.9 | -34.8 | |
| Bag | -34.8 | -34.9 | -34.8 | |



Temperature Charts





| +/- 1.1°C |
|---|
| +/- 0.1°C |
| +/- 1.1°C |
| |
| +/- 0.1°C |
| +/- 0.1°C |
| Temperature did not exceed -34.5°C at any probe |
| |
| All probes under -29.6°C throughout opening |
| 8.69 KWh/day ³ |
| 14.32 KWh/day (320 BTU/h) ³ |
| 46 or less installed |
| |

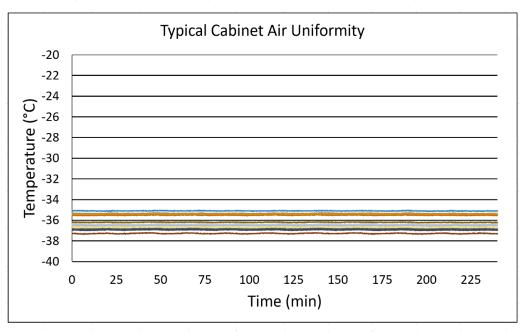
| Controller, Configuration, Alarms and Monitoring | | | |
|--|---|--|--|
| Controller technology | Proportional Integral Derivative (PID) microprocessor with LCD display | | |
| Battery Backup | 24V high capacity battery, controller, all alarms active, temperature monitoring DAQ and event | | |
| | logging active on battery backup | | |
| Digital Communication | RS-485 (MODBUS) | | |
| Chart Recorder | 6" paper, inkless | | |
| Temperature setpoint range | -15°C to -35°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 | | |

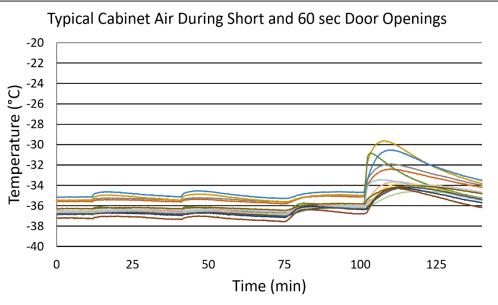
Performance data acquired at 22°C ambient, 4°C nominal set point in an empty cabinet with drawers using validation ballast probes, during stabilized steady state operation and a DAQ sampling rate of one measurement every 10 seconds

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.





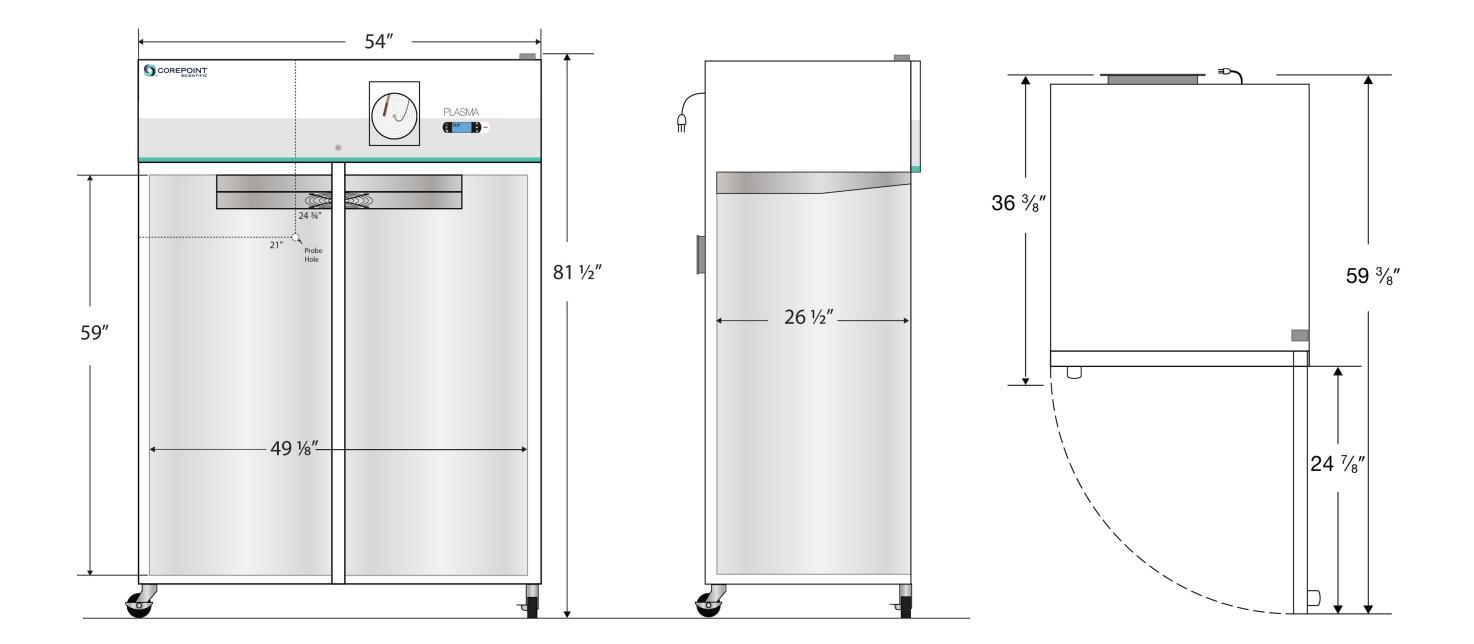


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Images



| 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" | | |



| 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-0011_Rev 2 | | |