

Plasma Freezer -30°C, Auto Defrost

Model 430



Model CPF430 shown with optional finished countertop.

-30°C Plasma Freezers feature the CryoLogic™ microprocessor control system, positive air-flow systems, industrial quality cabinet construction and extra strength refrigeration compressors selected for demanding blood bank applications.

CryoLogic™ Microprocessor Control plasma freezers feature enhanced digital electronic technology designed to simplify operation and deliver greater accuracy.

- Preset -30°C temperature setpoint
- Icon-based controls and displays include graphic references for universal operation

operation at a glance, shows normal, high or low temperature condition; steady green for normal, flashing bulb for undertemperature

- An advanced defrost sensor manages the defrost cycle, minimizing trace amounts of frost buildup to maintain refrigeration coil efficiency for responsive, economical performance
- The enlarged digital display, resolution to within 1°C, improve visibility
- Alarm silence, ringback and automatic reset functions are standard
- A push button alarm test verifies sensor continuity
- Alarm battery backup assures system readiness

temperature fluctuations and minimizes operating costs

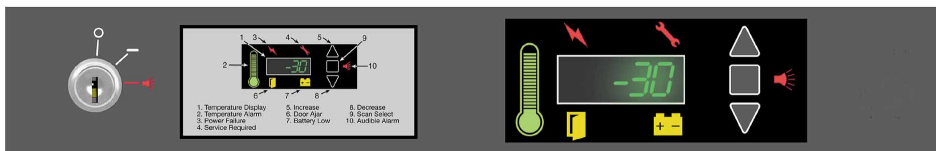
- Positive, forced-air circulation to maintain temperature uniformity at all shelf levels
- Directional air flow assures quick recovery after door openings
- Solid door with keyed door lock for added security
- Full extension stainless steel drawers
- Adjustable leveling legs
- Scratch resistant painted interior and exterior finish for easy cleaning
- Self-closing door seals against peripheral magnetic gasket
- Access port, 1" (5 cm) diameter, with plug

Refrigeration System

- Heavy duty, industrial-grade, hermetically sealed compressor
- Automatic defrost maintains optimum cooling capacity
- Automatic condensate removal; no drain lines required

Optional Accessories

- Voltage safeguard, free standing
- Temperature recorder, 6" (15.2 cm) circular chart, 7-day drive (free standing)
- Stainless steel interior and exterior surfaces
- Single wheel, 2" (5 cm) casters
- Stainless steel drawer dividers
- Finished countertop



CryoLogic™

- Setpoint security with key operated master switch control
- Audible/visual warnings for overtemperature, undertemperature and power failure, with visual status reports on critical functions
- A graphic thermometer confirms proper

- Remote alarm contacts

Cabinet Construction and Inventory System

- High density CFC-free urethane foam insulation protects cabinet from ambient

Model 430



Specifications Application, Rating and Electrical Data

Application	Plasma Storage		
Storage Volume	4.9 cu.ft. (133 l)		
Temperature Rating	-20°C to -30°C @ 90°F(32 °C) Ambient		
Agency Listings	UL, CUL, CE		
Indoor/Outdoor Usage	Indoor Use Only		
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 59° F-90° F (15-32°C)		

	A	V	W
Voltage	115V/1Ø/60Hz	220V/1Ø/50Hz	240V/1Ø/50Hz
Electrical Power	8.0 / 15A	6.0 / 15A	6.0 / 15A
Rated Amps/Breaker	5-15P / 10 ft (3m)	European / 10 ft (3m)	British / 10 ft (3m)
Power Plug/Power Cord Length			

Refrigeration System

Refrigeration System	Vapor compression system with Automatic Defrost
Compressor	1/2 hp.
Condenser Type/Number	(1) Finned-Tube with Forced-Air Cooling
Expansion Device	Capillary Tube
Evaporator Type	Forced Air With Enhanced Heat Transfer Coiling Coil
Defrost Method	Electric Defrost System/every 6 hrs./Duration depends on frost accumulation
Refrigerant Charge	CFC- and HCFC-Free R134a & R404a

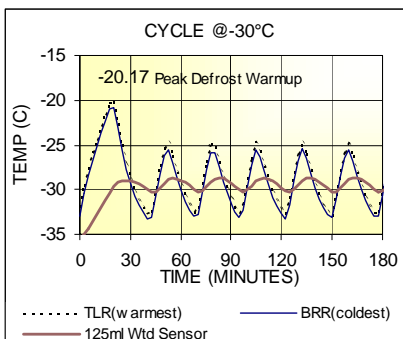
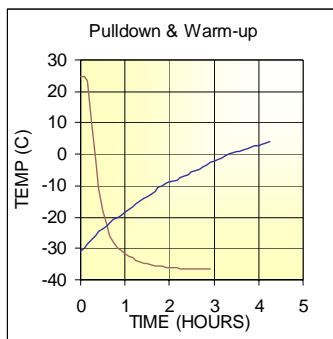
Control Features

Controller Level	Ground Level
Power Switch	Keyed Off-On-Alarm
Controller Type	Microprocessor-Based CryoLogic™ Control
Setpoint Security	Yes
Control Sensor	Stainless Steel Shielded RTD
Remote Alarm Terminals	Standard
Adjustable Warm/Cold Alarms	Standard
Power Failure Alarm	Standard

Dimensions and Construction

Interior Dimensions (F-B x W x H)	20.5 x 20 x 20 in (0.52 x 0.51 x 0.51 m)
Exterior Dimensions (F-B x W x H)	26 x 24 x 33.375 in (0.66 x .61 x 0.85 m)
Insulation	2 in. (5.1 cm) High Density HCFC-blown Polyurethane Foam
Frame Heat	Electric
Shelves/Capacity	(2) stainless steel drawers
300ml Bag Storage Capacity	78 bags
All-Direction Casters/Level Legs	Standard leveling legs / optional casters
Ship Weight	212 lbs.

Nominal Performance Characteristics



Ambient: 25°C
 Load: Empty
 Sensor weighting: 1.5ml
 Avg. stability: 7.9°C
 Avg. uniformity: 1.0 °C
 Cycle rate (on/off):16.5 / 9.0 Minutes
 Avg. energy consumption: 8.5 kW-hr/day
 Avg. heat rejection: 1540 Btu/hr (450 W)
 Reserve capacity: 325 B/hr (95 W)
 Test File: x8294a13.xls

- 1) Performance is nominal and individual units may vary.
- 2) Freezer performance will differ due to product amount, product size and operating conditions.
- 3) Continuous product enhancements may, without notice, result in amendments or omissions to this specification. Revco Technologies, Inc. cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.



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