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72 CF Premium CX Series Laboratory Glass Door Refrigerator

Product Data Sheet

CPS-HC-PLD-72-TS

Product Description

Our Premium CX Series Lab Touchscreen Refrigerators deliver superior cooling to laboratory environments. Engineered with variable speed compressors (VSCs), these units feature ultra-quiet operation and significant energy savings. VSCs optimize energy consumption by self-adjusting to cooling demands. These compressors also deliver enhanced system performance and provide a longer lifespan than other compressor variations.

This touchscreen line showcases our most elite features including state-of-the-art touchscreen controllers, advanced alarm systems and data logging capabilities. All units are powered by microprocessor temperature control. These units also utilize natural, hydrocarbon refrigerants for environmental health and energy efficiency. Upgrade your laboratory with these advanced units and welcome energy savings, noise reduction, smooth operation, and improved system performance to your work environment.

Image



Certification



t (t. / ft.)	72.00.54
Storage capacity (cu. ft)	72 Cu. Ft.
Door	Triple, glass, swing, right and left hinged doors
ihelves	Fifteen adjustable shelves with guard rail on back
Drawers	Optional pull-out drawers available
Mounting and Installation	Six preinstalled swivel casters, front casters locking
nterior lighting	Shielded, switched LED lighting, full coverage, balanced spectrum
Airflow Management	Forced air technology
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	Keyed door lock
General warranty	Two (2) years parts and labor warranty
Compressor warranty	Seven (7) years compressor warranty
Product Weight (lbs)	728
Shipping Weight (lbs)	880
Rated Amperage	5 Amps
Power Plug/Power Cord	NEMA 5-15 plug
Facility Electrical Requirement	110-120V AC: 15 A (minimum)
Agency Listing and Certification	ETL, C-ETL listed and certified to UL471 standard, hydrocarbon refrigerant safety

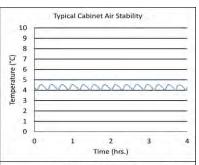
Performance	
Uniformity ¹ (Cabinet air)	±0.86
Stability ² (Cabinet air)	±0.61
Maximum temperature variation	±1.15
(Cabinet air)	
Energy Consumption (KWh/day)	2.02
Average Heat Rejection (BTU/hr)	625
Noise Pressure Level (dBA)	47 or less installed
Pull down time to nominal operating temp	80 min

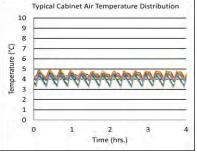
Features	
Data Logging and Reporting	Customizable Data Capture Intervals: Logs data every 5, 10, or 15 minutes.
	Alarm History with Timestamped Logs: Captures and stores all alarms (door ajar, power loss,
	temperature deviations).
Real-Time Graphing	View temperature trends over 24 hours or 7 days with zoom/scroll capabilities.
	Statistics Summary: Displays minimum, maximum, average, and number of samples in
	selected time ranges.

4.9 4.3 5.5 5.1 4.5 5.5 5.4 4.9 5.9 4.6 5.7 5.3 6.1 5.3 4.9 5.7 4.7 5.4 5.8 5.1 4.5 5.4 4.8 4.4 10 5.1 11 4.5 4.0 4.9 12 4.5 4.0 4.9 4.8 4.3 5.2 5.2 4.8 5.5 4.4 3.8 5.0 15



Temperature Charts ³





Performance data acquired at 22°C ambient, 4°C nominal set point in an empty cabinet with shelves using air 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- Charts are representative of the product and actual performance may vary slightly.

Refrigeration System	
Compressor	Hermetic, variable speed (VSC). Rated speed range: 1600-4000 rpm
Refrigerant	EPA SNAP compliant, R290
Condenser	Anti-fouling tube and grid design, ultra-quiet multi-speed fan
Evaporator	Fin and tube design, high efficiency fan
Defrost	Cycle optimized, zero energy

ontroller technology	Proportional Integral Derivative (PID) microprocessor with LCD display
attery Backup	12V high-capacity battery, controller, all alarms active, temperature monitoring DAQ and event logging active on battery backup, touch screen display
ontroller probe	Bottle with glass bead thermal media
ata Transfer	USB port for temperature and alarm log download. Data and time stamps in .csv and .pdf
eliability and Compliance	Battery Reset Reminder: Alerts users to replace the battery proactively. New Power Supply with Low Voltage Shutoff: Reduces risk of damage from power fluctuation
djustable Temperature Range	1°C to 10°C
ternal alarm connection	State switching remote alarm contacts
arm Management	Audible & Visual Alarms: Customizable sounds and volumes; silent mode with visual persistence. Alarm Delays: Adjustable settings for door, temperature, and power loss alarms to prevent nuisance alerts. Ring-Back Functionality: Audible alarms re-engage after a preset delay if the condition persists.
ecurity and Access	Multi-Level Password Protection: User, Supervisor, and Admin roles for access and control.
	Automatic Logout: Enhances security by requiring re-login after inactivity. Customizable Passwords/PINs: Ensures tailored access for your team.

Defrost Options: Force defrost and cycle settings for freezers.

 $\label{lem:cycle} \textbf{Cycle Control: Adjustable intervals and duration for various operational conditions}$

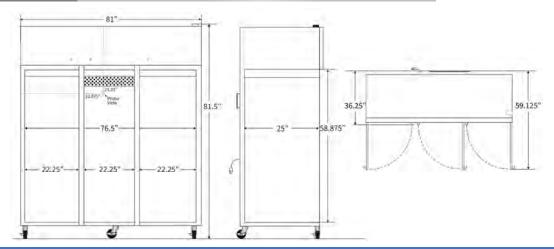
Visual and User Interface

Intuitive Touch Screen: Pinch-to-zoom, scrollable graphs, and customizable display options.

Dual Temperature Probes (Optional): Displays readings for up to two zones.

Adjustable Display Settings: Screen brightness, real-time temperature comparison to alarm points, and selectable "C/"F display with 0.1 resolution.

Dimensions					
	Width (in.)	Depth (in.)	Height (in.)	Door Swing (in.)	Total open Depth (in.)
Exterior	81"	36.25"	81.5"	22.875"	59.125"
Interior	76 5"	25"	58 875"		



Contact			
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