

# PH-DAI-HC-RFC-16A

## **Product Descriptio**

These Pharmacy refrigerator and freezer combination units are designed with a variable speed compressor to deliver unparalleled temperature control. Safeguard your samples with superior temperature uniformity and recovery, even after frequent door openings. Monitor your medical equipment though intuitive digital displays and protective alarms. Champion sustainability with natural hydrocarbon refrigerants—which not only contribute to energy savings, but also foster a greener footprint. Elevate your medical cooling experience with an integrated solution that brings together innovation, performance, and precision.

#### **Images**





### Certifications

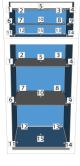


eral Description and Application	
Storage capacity (cu. ft)	13 Cu. Ft. Refrigerator / 3 Cu. Ft. Freezer
Door	Double Swing Solid Right Hinged Doors
Shelves (Frg/Frz)	3 adjustable, vented stainless steel shelves refrigerator / 1 fixed shelf freezer
Drawers (Frg/Frz)	Non-applicable
Mounting and Installation	Leveling Legs
Interior lighting	12V LED light bar (Refrigerator)
Airflow Management (Refrigerator)	Forced draft air circulation (Refrigerator)
External probe access	Probe access port (3/8") dia., 2 ea. (1 for Refrigerator/1 for Freezer)
Insulation	Cabinet is foamed-in-place with EPA compliant high density urethane foam
Exterior materials	Bioscience Grey powder coated canopy, white textured chamber exterior
Access control	Keyed door lock
General warranty	Two (2) years parts and labor warranty
Compressor warranty	Seven (7) years compressor warranty
Product Weight (lbs)	262
Shipping Weight (lbs)	292
Rated Amperage	3 Amps
Power Plug/Power Cord	NEMA 5-15 Plug / Vaccine storage power cord warning label
Facility Electrical Requirement	110-120V AC: 15 A (minimum)
Agency Listing and Certification	ETL, C-ETL listed and certified to UL 471 Standard for Commercial Refrigerators an Freezers and CSA C22.2#120 Refrigeration Equipment

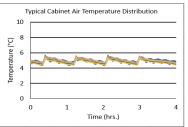
Performance	
Refrigerator Uniformity <sup>1</sup> (Cabinet air)	+/-0.22°C
Refrigerator Stability <sup>2</sup> (Cabinet air)	±0.48°C
Refrigerator Maximum temperature variation	±0.71°C
(Cabinet air)	
Freezer Uniformity <sup>1</sup> (Cabinet air)	±0.69°C
Freezer Stability <sup>2</sup> (Cabinet air)	±1.14°C
Freezer Maximum temperature variation	±1.95°C
(Cabinet air)	
Energy Consumption (KWh/day)	3.73
Average Heat Rejection (BTU/hr)	5.25
Average Heat Rejection (BTU/hr)	746
Noise Pressure Level (dBA)	48 or less installed
Pull down time to nominal operating temp (Frg/Frz)	40 min / 165 min

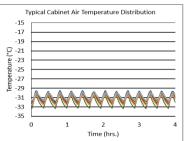
Frg Temperature Probes 1,2				
Probe	Ave	Min	Max	
1	4.8	5.6	4.3	
2	4.8	5.5	4.4	
3	4.9	5.4	4.4	
4	4.9	5.5	4.5	
5	4.8	5.3	4.5	
6	4.7	5.4	4.4	
7	5.1	5.5	4.7	
8	5.0	5.5	4.7	
9	4.9	5.5	4.4	
10	4.9	5.4	4.5	
11	5.1	5.7	4.7	
12	4.9	5.6	4.6	
13	5.1	5.6	4.7	
14	5.1	5.6	4.7	
15	5.0	5.4	4.6	
Bal	N/A	N/A	N/A	
Bag	N/A	N/A	N/A	

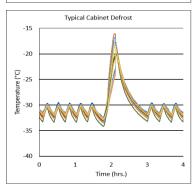
Frz Temperature Probes 1,2				
Probe	Ave	Min	Max	
1	-30.7	-29.5	-32.1	
2	-31.3	-30.0	-32.6	
3	-31.6	-30.5	-32.7	
4	-31.4	-30.3	-32.5	
5	-31.5	-30.3	-32.6	
6	-31.0	-30.0	-32.0	
7	-31.3	-30.2	-32.3	
8	-31.3	-30.2	-32.4	
9	-31.0	-30.0	-32.0	
10	-30.9	-29.9	-31.9	
11	-30.7	-29.9	-31.9	
12	-32.0	-30.4	-33.4	
13	-31.5	-30.3	-32.7	
14	-31.6	-30.3	-32.7	
15	-30.8	-29.9	-31.7	
Bal	N/A	N/A	N/A	
Bag	N/A	N/A	N/A	



### Temperature Charts







Notes on Performance Data: Performance data acquired at 22°C ambient, 5°C/-33°C nominal set points 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

- $1- Uniform it y is defined as the \ maximum \ variance \ in \ temperature \ across \ all \ probes \ at \ any \ point \ in \ time \ over \ the \ testing \ period$
- 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.
- 4- Charts are representative of the product and actual performance may vary slightly

Refrigeration Syste Variable speed (VSC), Refrigerator. Rated speed range: 1300-4000 rpm Compressor Refrigerant R600a Anti-fouling tube and grid design Condenser Fin and tube design, high efficiency fan Cycle Optimized Zero-Energy / Auto Defrost Defrost (Refrigerator/Freezer)

Controller, Configuration, Alarms and Monit Controller technology Individual XRI77CH microprocessor temperature controllers for both the refrigerator and freezer with digital temperature display. "C/"F switchable Battery Backup 12V high-capacity battery, controller, all alarms active, temperature monitoring DAQ and event logging active on battery backup

Display technology  $Bi-Colored\ LED\ display\ and\ alarm\ module\ with\ .1^{\circ}C\ resolution,\ touchpad\ controls,\ \ resettable\ 1-point\ min/max\ history$ RS-485 (MODBUS) Digital Communication Chart Recorder Non-applicable Adjustable Temperature Range (Refrigerator) Adjustable Temperature Range (Freezer) 1°C to -10°C -35°C to -15°C

External alarm connection

State switching remote alarm contacts

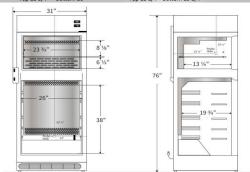
Audible and visual high and low temperature alarms, refrigerator and freezer, 36 hour battery back-up on alarms, high/low temperature & loss of power, remote alarm contacts, door alarm Alarms

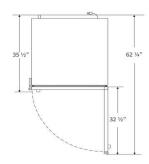
Controller probe 2 probes for each chamber; 1 in air and 1 in sample bottle Disclaimer\*

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1 - Uniformity is defined as the maximum variance in temperature across all probes at any point in time over the testing period
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Width (in.) Depth (in.) Height (in.) Door Swing (in.) 35 1/2" 76" 52 5/8" 32 1/2" 62 1/4" Top 23 3/4 - Bottom 26" Top 13 1/4 Bottom 19 3/4"





Contact		
Customer Service	866-705-4749	customerservice@daiscientific.com