

# PH-ABT-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



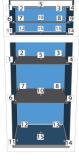
neral Description and Application		
Storage capacity (cu. ft)	13 Cu. Ft. Refrigerator / 3 Cu. Ft. Freezer	
Door	Double Swing Solid Right Hinged Doors	
Shelves (Frg/Frz)	3 adjustable, vented stainless steel shelves refrigerator / 1 fixed shelf freezer	
Drawers (Frg/Frz)	Non-applicable	
Mounting and Installation	Leveling Legs	
Interior lighting	12V LED light bar (Refrigerator)	
Airflow Management (Refrigerator)	Forced draft air circulation (Refrigerator)	
External probe access	Probe access port (3/4") 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 and Freezers and CSA C22.2#120 Refrigeration Equipment	

rformance	
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

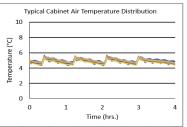
### 4.8 5.6 4.3 4.8 5.5 4.4 4.9 5.4 4.4 4.8 5.3 4.7 5.4 4.5 4.4 5.0 5.5 4.7 4.9 5.5 4.4 10 4.9 5.4 4.5 11 5.1 5.7 4.7 13 5.1 5.6 4.7 5.1 5.6 4.7 14 15 5.0 5.4 4.6 N/A N/A N/A Bal

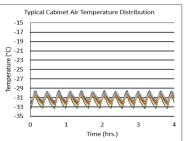
Bag N/A N/A N/A

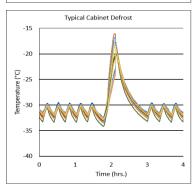
Frz Temperature Probes 1,2					
Probe	Ave	Min	Max		
1	-30.7	-29.5	-32.1		
2	-31.3	-30.0	-32.6		
3	-31.6	-30.5	-32.7		
4	-31.4	-30.3	-32.5		
5	-31.5	-30.3	-32.6		
6	-31.0	-30.0	-32.0		
7	-31.3	-30.2	-32.3		
8	-31.3	-30.2	-32.4		
9	-31.0	-30.0	-32.0		
10	-30.9	-29.9	-31.9		
11	-30.7	-29.9	-31.9		
12	-32.0	-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 Uniformity is defined as the maximum variance in temperature across all probes at any point in time over the testing
- 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 Monitoring Controller technology Battery Backup

Individual XRi77CH microprocessor temperature controllers for both the refrigerator and freezer with digital temperature display, °C/°F switchable

12V high-capacity battery, controller, all alarms active, temperature monitoring DAQ and event logging active on battery backup

Calibrated using a NIST traceable device, certificate included

Calibration Digital Communication RS-485 (MODBUS) Chart Recorder Non-applicable Adjustable Temperature Range (Refrigerator) 1°C to 10°C Adjustable Temperature Range (Freezer) -35°C to -15°C

External alarm connection Alarms

State switching remote alarm contacts

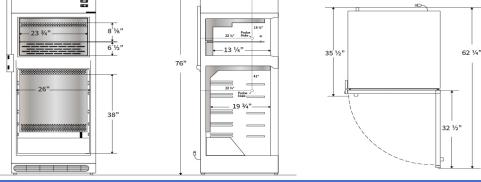
Audible and visual high and low temperature alarms, refrigerator and freezer, 36 hour battery back-up on alarms, high/low temperature & loss of power, remote alarm contacts, door alarm

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

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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" 23 ¼" Probe 8<sup>1</sup>/<sub>8</sub>" - 23 3/4" 6 1/2" \_13 ¼" — 62 1/4" 35 1/2



Customer Service

800-648-4041 Option 3 Technical Service 800-648-4041 Option 5, Parts Option 4