

Glacier Bay Refrigeration

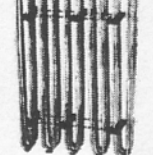
With Optional Arctic Air Conditioning

Recognized worldwide as the most efficient, most reliable refrigeration equipment on the market today. Recommended as the top choice system in refrigeration (Cruising World, June 1995). Thorough, informative brochures available from Glacier Bay, 1011 Claremont St., San Mateo, CA 94402 (415) 578-0871, fax 578-0912. Free Refrigeration System Evaluation by completing a simple 2-page form available from Defender or Glacier Bay. E-mail: glacier@glacierbay.com

Visit www.glacierbay.com for loads of technical specifications and competitive comparisons.

Spider Coil®

Nine times more coil surface than competitive evaporator coils



Glacier Bay designed the first marine refrigeration system to rely on HFC-134a refrigerant gas, the preferred choice to replace harmful CFCs now being phased out world-wide. These systems are so reliable and efficient in design that Glacier Bay guarantees that over a 24 hour period they will use less energy to cool an identical box than any competing system sold. The key is in the holding plates, which are very different from others on the market. Glacier Bay's incorporate the patent-pending 100 % stainless steel Spider Coil® surrounded by a complex proprietary chemical eutectic solution, providing up to 4 times more heat absorbing capacity than competitive units.

That's a great savings in energy consumption over years of use, and money in the bank ... even if the initial investment is more.

System Packages: Include compressor unit, R/A/D assembly, cupro-nickel condenser, holding plate (any size) with Spider-Coil® evaporator, externally equalized expansion valve, control system, raw sea water pump (choose centrifugal or self-priming), digital thermostat and solder installation kit.

Crating & shipping charges not included, FOB CA, Special Order, Contact Defender for quotation.

System Packages:

	Voltagess (please specify)	List Price
Traditional Belt Drive		
1/2 HP	12 or 24 VDC 110 or 220 VAC	\$3,795
3/4 HP	12 or 24 VDC 110 or 220 VAC	3,950
1 HP	12 or 24 VDC 110 or 220 VAC	4,250
1.5 HP	110 or 220 VAC	4,395
Engine Drive		3,450
Premium Direct-Drive		
1/2 HP Mark II	12DC only	4,475
3/4 HP Whisper Jet	12 or 24 VDC 110 or 220 VAC	4,635
2 HP Rapid Chill	110 or 220 VAC	5,075
Multi-Refrigerant Low-Temp		
1 HP Sub-Zero*	12 or 24 VDC 110 or 220 VAC	5,325

* The Sub-Zero is a true multi-refrigerant, low temperature system allowing the use of various refrigerants for specific needs. For options write or fax.

Combination Dual Compressor

Combination systems require the use of optional Eutectic Control Modules (ECM) not included in package price. Add together the package prices of any two of the above systems (except Sub-Zero) and subtract \$3,000.

System Options:

	List Price
Separately Controlled Refrigerator/Freezer	
Includes additional holding plate, thermostat, expansion valve, solenoid assembly, upgraded control.	\$1,230
Additional Holding Plate Includes expansion valve	875
ECM Control Upgrade	325
Replaces standard thermostats. Order one per box.	
Digital Pressure Displays	
Includes one each for discharge and suction	895
Leak-proof no-solder fittings	Call

Arctic Air Conditioning

Let your system do double duty for the 22-23 hrs. per day it isn't needed for refrigeration. Controls give priority to refrigeration, then switch back to AC. Packages include 1 or 2 fan blower unit, solenoid valve assembly, aluminum discharge grill, installation manual. Call for other options.

Arctic Air Blower A Air Conditioning Package (1 fan)	\$535
Arctic Air Blower B Air Conditioning Package (2 fan)	765
Digital Thermostat for Arctic Air	277

AURA™ SUPERINSULATION VACUUM PANELS

Used to either build or re-insulate an icebox, these panels yield up to 100% more interior space within the same exterior dimensions and reduce energy consumption up to 40%. Made by Owens-Corning, AURA™ Superinsulation panels contain no agents associated with foam and are entirely recyclable. Available in 5 sizes. Measurements include 1/2" sealing flange. All panels are 1" thick; rated R-75 (equals 15" of foam). Cannot be cut or drilled.

Model	Length	Width	Model	Length	Width
1	18.50"	25.15"	4	21.25"	24.00"
2	17.25"	21.25"	5	21.25"	35.25"
3	17.50"	27.72"			

Pricing: 1-2 panels, \$265.50 ea.; 3-5 panels, \$259.60 ea.; 6-9 panels, \$250.75 ea.

Refrigeration

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ICE+ from Defender Industries

ICE+ was designed by the experts at Glacier Bay for Defender's customers as a premium performance, more affordable holding plate refrigeration system to satisfy the performance demands of knowledgeable boaters. The resulting lower cost alternative offers the finest components in this price category while benefitting from the technical savvy and manufacturing expertise of the unquestioned leader in boating refrigeration systems.

SYSTEM DESCRIPTION

ICE+ consists of the stainless steel case enclosed main compressor, one holding plate with expansion valve, pre-charged 15' insulated 3/8" return line, 15' 3/16" discharge line, centrifugal sea water pump, control panel and connection wire. Options include self-priming pump, additional holding plates, 25' extension line set, and upgraded remote control panel. Either the standard or the optional remote control panel provide for unique audible system diagnostics to warn of any trouble source such as over heating, low voltage, etc.

CAPACITY

Under comparative test conditions ICE+ removes heat at 1800 BTU/HR for refrigerator units and 1000 BTU/HR for freezers. ICE+ can cool refrigerator and freezer units as large as those typically found on 50' sailboats or bigger. Important factors which affect cooling capacity, however, are insulation thickness and condition, location and access frequency of the box. A single compressor can drive up to four holding plates. This translates up to a 6 cu. ft. freezer and a 12 cu. ft. refrigerator or one single box exceeding 20 cu. ft.

CONSTRUCTION

ICE+'s components are manufactured for Defender by Glacier Bay, the world's accepted leader in marine refrigeration technology. For instance, ICE+'s holding plates are 100% argon-welded 16 gauge 304 stainless steel utilizing propylene glycol and the evaporator is continuous copper coil with 56% pure silver bulk-head joint. The quality of construction is far superior to competitive makes.

Stainless steel case
enclosed compressor
Precharged return and
discharge lines
Holding plate

ICE+



INSTALLATION

Because ICE+ is designed for owner installation, installation is simple, quick and foolproof. The main compressor, because it is water cooled and requires no dedicated thru-hulls, does not require extra ventilation and can be installed in any convenient location. Case dimensions: 10"H x 10.5"W x 14.5"L. Plate is 15.5" x 11" x 1.25". The pre-charged lines are easily attached to the compressor with a special leak-proof connector, eliminating the need for a certified technician. Remote thermostat plugs in with phone-type jack. Electrical connections are easily made to a marked terminal strip on the compressor. Centrifugal pump is quiet and can sit in the bilge, but must be mounted below the waterline in a continuous run. Optional self-priming pump is available if necessary.

MORE FEATURES

Voltage automatically switches from DC to AC when available. Up to six times the cooling power of Adler-Barbour units or four times the cooling power of Technautics units. Input 1.6 amps @ 110 VAC, 20 amps @ 12 VDC.

No. IPSRG (with refrigerator plate) No. IPSFZ (with freezer plate)
Ships in three packages: 1@68lbs., 1@22lbs. and 1@11lbs.

Step-down kit 1/2" to 1/4" \$9.95ea. 1/4" thick wall clear hose, \$.85/ft.

OPTIONAL REMOTE TEMPERATURE CONTROL PANEL

This is a unique option well worth considering. It includes a graphic temperature readout, tri-color status light, and integral system diagnostics which pinpoint any source of trouble such as cooling fan failure or over heating, as well as items requiring normal attention, such as low voltage. The system alerts you with audible alarm and pinpoints the source of the trouble or attention. Net \$350.00

Control extension line: 6' - \$19.95 12' - \$24.95

Pre-charged extension line set: for longer tubing runs between compressor and the box(es).

No. IPLS15 6 ft. \$169.50 No. IPLS25 12 ft. \$204.95

Additional holding plates: Ship 22 lbs. ea. Specify refrigerator plate or freezer plate. \$499.00 ea.

Link Set: to integrate additional plates Specify 2', 3' or 4' \$45.00

Manufacturer's one-year limited warranty covers everything other than the water pump. In addition, any out-of-warranty mechanical problem is covered by a flat-rate factory repair price of \$325 plus shipping.

Please contact us by fax, e-mail or phone for a detailed brochure explaining Defender's new Ice+ System by Glacier Bay out performs the competition.