

SeaMach

SeaMach™

Reverse cycle air conditioners and chillers by Marvair®



SeaMach™ Self-Contained and Split System Reverse Cycle Air Conditioners by Marvair®

Marvair SeaMach reverse cycle air conditioners are designed for years of dependable operation and have standard features only found on more expensive units. Through a combination of innovative design, decades of experience in building air conditioners and unmatched purchasing power, SeaMach reverse cycle self-contained and split air conditioners are an unmatched value.

SeaMach™ reverse cycle air conditioners and split system air conditioners are available in nominal capacities of 5,000; 7,000; 10,000; 16,000 and 24,000 BTUHs. Unique design features reduce the space required and facilitate installation. A complete line of thermostat controllers and accessories are available. Units are built in 115 volt and 208-230v, 60 Hz. and 220v, 50 Hz. and are charged with either R22 or R407C refrigerant. R407C is an environmentally friendly, non-ozone depleting refrigerant for use in Europe.

The SeaMach reverse cycle, split system air conditioners are comprised of an air handler and a condensing section. SeaMach split systems are constructed of the same quality components as the SeaMach self contained units. The air handler and the condensing section are connected in the field with refrigerant tubing.

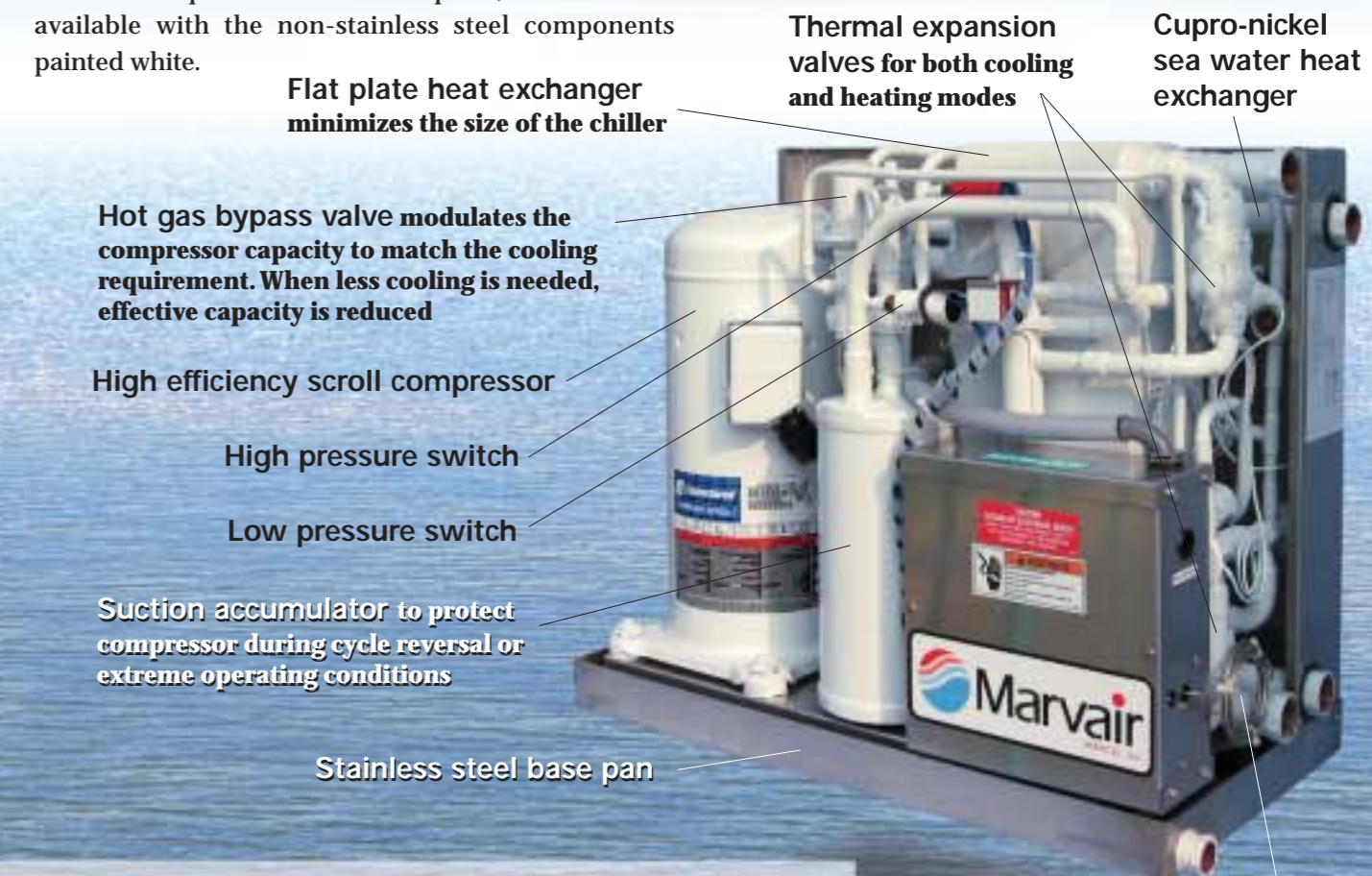
Each condensing section is precharged so that no additional refrigerant is required when the two are 25 feet (760 cm) or less apart. The installation of the refrigerant tubing is simplified by the use of flare fittings. The electrical connection between the two sections is a pre-assembled quick connect type. The quick connect cable is available from Marvair in various lengths to facilitate any installation. As an option, the condensing unit is available with the non-stainless steel components painted white.



SeaMach™ Reverse Cycle Chillers by Marvair®

SeaMach™ reverse cycle chillers are designed for the discriminating boatsman that demand the ultimate in space conditioning systems. SeaMach chillers are available in five sizes with capacities of 24,000; 36,000; 48,000; 60,000 and 72,000 BTUHs. Custom units can be built in various sizes and configurations to meet customer requirements. As an option, the chiller is available with the non-stainless steel components painted white.

All SeaMach reverse cycle chillers use the environmentally friendly, non-ozone depleting R-407C refrigerant. R-407C is non-flammable (does not contain butane), has an A1 safety classification by ASHRAE and is listed by the U.S. Environmental Protection Agency on its SNAP list.



Introducing The **NEW** SeaMach 12 Volt DC Air Conditioner

The SeaMach 12 volt DC air conditioner has a nominal cooling capacity of 5,000 BTUH and is ideal for sailboats, powerboats and any place cooling is desired. The air conditioner, including a small circulating pump, draws a nominal 30 amps. The unit can be operated directly from batteries and or used dockside with a suitable battery charger. Unlike previous units that require an inverter to convert AC to DC, the SeaMach 12 volt DC air conditioner unit was designed exclusively for DC power, greatly increasing its efficiency. A single inlet centrifugal blower delivers the cooled air quietly and efficiently and can be used with duct work and a grille.



Freeze-stat to protect the evaporator during loss of water flow

For more information call us at: 229-273-3636 or visit our web site: www.marvair.com



ISO 9001:2000 REGISTERED COMPANY
P.O. Box 400
Cordele, Georgia 31010

156 Seeding Drive
Cordele, Georgia 31015

Controllers and Accessories

A wide array of controllers for SeaMach reverse cycle air conditioners and chillers are available. For the self contained and split units, three controllers are offered.



◀ **The MachAir™ programmable microprocessor controller** and display provides temperature control, auto and six manual fan speeds settings and a dehumidification mode for the SeaMach self contained and split systems. High and low pressure inputs protect the compressor and a defrost mode prevents the coil from icing. A universal power supply operates on 120v.or 230v., 50 Hz. or 60 Hz.



◀ **The MachAir OLED programmable digital thermostat controller** features an OLED display screen that indicates operating status, alarm notification and a built in temperature sensor. A four position touch pad facilitates the selection of the desired temperature and the operational set points. The display is designed to mount into a standard three module cover plates available from various manufacturers. Fuses protect the board and display from erratic voltage fluctuations. See MachAir OLED product data sheet for complete details.

▶ **The Marvair digital controller** is a cost effective, 24v. thermostat. The thermostat has a HEAT, COOL & OFF system switch and an AUTO or MANUAL fan speed control the SeaMach self contained and split systems.



◀ **SeaMach™ reverse cycle chillers** are controlled by a programmable electronic controller and display. This controller features a five position system switch - COOL, HEAT, AUTO, MANUAL & OFF a dehumidification mode and fan coil fan speed control. LED's indicate heating or cooling and compressor operation. Sensors monitor loop and seawater temperature.

▼ **Accessories.** Marvair stocks a full compliment of accessories to facilitate the installation of the SeaMach units. Pumps, wood and aluminum grilles, duct transitions and adapters, strainers, valves, and are available.





For over 50 years, Marvair® has been engineering and manufacturing heating and cooling equipment for schools, telecommunications sites and commercial modular buildings.

Marvair is located in Cordele, GA.

Our production facilities include the latest in computer controlled processes for all phases of production. Automated testing of every unit minimizes the likelihood of a problem in the field. In 2001, Marvair embarked on the process of becoming a “Lean Manufacturer”. Modeled on the Toyota

principles of production, lean manufacturers strive to reduce costs by improving efficiency and, most importantly, building a better & more reliable product. Marvair has been recognized by the State of Georgia for its accomplishments in manufacturing.

As a member of the Air Conditioning and Refrigeration Institute (ARI), Marvair must ensure that its products comply with the Federal Energy Efficiency regulations. Marvair's engineering lab is one of the select few in the nation that is able to conduct these precise tests to verify performance. As a world class manufacturer, Marvair is an ISO 9001-2000 registered company.

In 1997, Marvair became part of Airxcel® Inc. In addition to Marvair, Airxcel, Inc also owns RV Products®, Inc. and Suburban Manufacturing. RV Products, Inc builds the Coleman®-Mach® air conditioners and is the world's largest manufacturer of air conditioners for recreational vehicles. Suburban designs and builds stoves, cooktops, water heaters and furnaces for all sizes of RVs. Airxcel, Inc currently has over 900 employees at production facilities in Wichita, KS, Cordele, GA and Dayton, TN.



Telecommunications

In the early 1980's, Marvair developed innovative cooling solutions for the emerging wireless telecommunications market. Today, the world's telecommunication's companies rely on Marvair air conditioners to keep their networks operational, regardless of outdoor conditions. The telecommunications industry also has a critical need for quick and reliable response to problems. To address this requirement, Marvair developed and maintains a network of over 1,000 service centers and distributors worldwide. A 24/7 toll free line is available for continuous support.

Schools

A comfortable classroom facilitates learning. Since Marvair's inception, we have built air conditioners and heat pumps for schools. Engineers and architects throughout the country specify Marvair products because of our energy efficiency and quiet operation. Cash strapped school districts use Marvair equipment because they know they can rely on Marvair's quality and performance at an affordable price.

Commercial modular buildings

Marvair's wall mounted HVAC equipment is selected by manufacturers of commercial modular buildings from coast to coast. Whether a construction office, a portable classroom or virtually any other type of temporary structure, Marvair units are used because of their rugged dependability and value.



P.O. Box 400
Cordele, Georgia 31010
156 Seeding Drive
Cordele, Georgia 31015

Phone: 229-273-3636
Fax: 229-273-5154
E-mail: marvair@airxcel.com

www.marvair.com

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