



Innovation in air conditioning and heating

Company Information

MarinAire is a US based company, manufacturing marine air conditioning products with its headquarters based in Miami FL USA and an international distribution center in Doral FL USA. It is a global provider of marine and geothermal heating, ventilation, and air-conditioning (HVAC) products.

The company was founded in 2007 with focus on manufacturing marine HVAC products. In addition to manufacturing, MarinAire is also involved in research and development activities for developing new technologies and inventions regarding marine air conditioners and heating products.

History

After its establishment, the company worked for 1.5 years on R&D and launched its MSA product line in 2008, the MSB series as second generation in 2010 and the MSBA series as third generation in 2012.

In 2010, the company obtained federal registration of the trademark MarinAire. It received the "U.S Commerce Association's Award Plaque Honors the Achievement" in 2011, for the Refrigerator & Freezer Parts & Supplies category. This award program recognizes the outstanding local businesses throughout the country and those who have achieved outstanding marketing success and enhanced the positive image through service to their customers and community.

Technology

MarinAire puts the highest production technologies to use in the manufacturing plant. Fully automated assembly line is utilizing RF ID technology to identify, track, and record the specifics of each product on the assembly line. Each product passes through an 8 STEP testing on the assembly line before they are packed. These tests are, component leak testing, leak testing after brazing, fully submersed leak testing, performance testing, electrical and mechanical safety testing, visual testing, and smog testing before the shipment. The R&D team of MarinAire with mechanical and electronics engineers undertakes ongoing tasks for improvements and applies new technologies to their marine air conditioning systems. The manufacturing plant has four laboratories; two performance testing labs, a safety testing lab and a noise level & sound pressure testing lab. and has presently more than 300 employees working in production, R&D, logistics, marketing and IT departments. The manufacturing plant also applies the Six Sigma process and quality management methods on production.



MICRA

6000 Btu/h



MSBA, Micra™ Series

The Micra is a perfect solution for small cabins and cuddy cabins. With the height of 10 inches and width of 10 inches, it is so compact that it could be installed in any place. It's also recommended in the cockpit to be used as a spot cooler for the captain (even if it is in the open). It consumes about 500 watts and can be easily connected to a DC Inverter module to be powered up by a battery. The Micra uses R410A, an environmentally friendly refrigerant. These reverse-cycle air conditioners easily fit beneath a v-berth or in a storage area. They come with a split electric box and an entire control system. Thanks to the compressor sound shield, they are so quiet that it makes it hard to distinguish if the unit is in operation or not. The metal parts and drain pan are made of SS316 grade stainless steel.

MICRA		MSBA6K2	MSBA6C2	MSBA6E2
	V-Hz	110-120V/60Hz	208-230V/60Hz	220-240V/50Hz
Cooling Capacity	Btu	6000	6000	6000
Heating Capacity	Btu	7000	7000	7000
Max. power consumption	W	650	650	650
Running current	A	5.7	2.8	2.8
Max. current	A	6	2.9	2.9
Starting current	A	7.5	4.5	4.4
Water flow	GPH	150	150	150
Indoor air flow (Hi)	CFM	200	200	200
Noise level	dB(A)	=<40	=<40	=<40
Dimension (W*D*H)	in	17.5×11×10	17.5×11 x 11	17.5×11 x 11
Net weight	LBS	38.5	41	41
Refrigerant type		R410A	R410A	R410A

Features and benefits

- Whisper quiet operation
- Compact size
- 900 Rotatable blower
- Ridged construction
- SS316 stainless steel drain pan
- Compressor sound shield
- Light weight
- High efficiency
- High air volume
- Low start up current
- Environmentally friendly
- D-Smart Control System

Petite

9000 Btu/h



MSBA, Petite™ Series

The Petite is a perfect solution for small watercrafts. The Petite is a low profile version of the Integra units. It uses R410A, an environmentally friendly refrigerant. These reverse-cycle air conditioners easily fit beneath a v-berth or in a storage area. They come with a split electric box and an entire control system. Thanks to the compressor sound shield, they are so quiet that it makes it hard to distinguish if the unit is in operation or not. Its unique design makes it very easy to rotate the blower outlet 360 degrees. The metal parts and drain pan are made of SS316 grade stainless steel.

PETITE

		MSBA9K2	MSBA9C2	MSBA9E2
	V-Hz	110-120V/60Hz	208-230V/60Hz	220-240V/50Hz
Cooling Capacity	Btu	9000	9000	9000
Heating Capacity	Btu	10000	10000	10000
Max. input consumption	W	950	950	975
Running Current	A	7.5	3.75	3.8
Max. current	A	8.26	4.13	4.06
Starting current	A	13.2	6	6.1
Water flow	GPH	225	225	225
Indoor air flow (Hi)	CFM	300	300	300
Noise level	dB(A)	=<42	=<42	=<42
Dimension (W*D*H)	in	22.7×14.7×13.7	22.7×14.7×13.7	22.7×14.7×13.7
Net weight	LBS	51	51	51
Refrigerant type		R410a	R410a	R410a



Features and benefits

- Whisper quiet operation
- Compact size
- 360° Rotatable blower
- Ridged construction
- SS316 stainless steel drain pan
- Compressor sound shield
- Light weight
- High efficiency
- High air volume
- Low start up current
- Environmentally friendly
- D-Smart Control System

Integra

11000 Btu/h
14000 Btu/h
16000 Btu/h

MSBA, Integra™ series

The Integra is a revolutionary product of MarinAire®. It bears multiple features and innovations that no other products have yet. Its built-in pressure gauges make it easier to monitor the air conditioner and diagnose how healthy it is operating. The Integra comes with a sound shield around the compressor compartment as a standard accessory. The sound shield reduces the noise level by 60%. This unique design makes it very easy to rotate the blower outlet 360 degrees. The blower can be rotated in any position within seconds. Its unique construction consisting of light weight materials, add less weight to your boat, resulting in less fuel consumption and making it easier to maintain. The Integra is made in the smallest possible size in order to fit tiny enclosures. The metal parts and drain pan are made of SS316 grade stainless steel. As standard, The Integra comes with R410A refrigerant. The new refrigerant R410A is not only environmentally friendly; it also provides higher heating and cooling efficiency for low energy consumption.

Features and benefits

- Whisper quiet operation
- Built-in pressure gauges
- Compact size
- 3600 Rotatable blower
- Ridged construction
- SS316 stainless steel drain pan
- Compressor sound shield
- Light weight
- High efficiency
- High air volume
- Low start up current
- Environmentally friendly
- D-Smart Control System

Technical Specifications

		MSBA11K2	MSBA11C2	MSBA11E2
	V-Hz	110-120V/60Hz	208-230V/60Hz	220-240V/50Hz
Cooling capacity	Btu	11000	11000	11000
Heating capacity	Btu	12000	12000	12000
Max. input consumption	W	1250	1250	1282
Running current	A	7,9	4	4
Starting current	A	14	9	9,2
Water flow	GPH	275	275	275
Indoor air flow (Hi)	CFM	400	400	400
Noise level	dB(A)	=<42	=<42	=<42
Dimension (W*D*H)	in	22×16×14.4	22×16×14.4	22×16×14.4
Net weight	LBS	61	61	61
Refrigerant type		R410A	R410A	R410A

		MSBA14K2	MSBA14C2	MSBA14E2
	V-Hz	110-120V/60Hz	208-230V/60Hz	220-240V/50Hz
Cooling capacity	Btu	14000	14000	14000
Heating capacity	Btu	15000	15000	15000
Max. input consumption	W	1300	1330	1345
Running current	A	10,1	5,2	5,3
Starting current	A	15,3	9,2	9,3
Water flow	GPH	350	350	350
Indoor air flow (Hi)	CFM	450	450	450
Noise level	dB(A)	=<44	=<44	=<44
Dimension (W*D*H)	in	22×16×14.4	22×16×14.4	22×16×14.4
Net weight	LBS	65	65	65
Refrigerant type		R410A	R410A	R410A

		MSBA16K2	MSBA16C2	MSBA16E2
	V-Hz	110-120V/60Hz	208-230V/60Hz	220-240V/50Hz
Cooling capacity	Btu	16000	16000	16000
Heating capacity	Btu	17000	17000	17000
Max. input consumption	W	1480	1480	1495
Running current	A	10,8	5,5	5,6
Starting current	A	17,6	11	11,2
Water flow	GPH	400	400	400
Indoor air flow (Hi)	CFM	500	500	500
Noise level	dB(A)	=<44	=<44	=<44
Dimension (W*D*H)	in	22×16×14.4	22×16×14.4	22×16×14.4
Net weight	LBS	67	67	67
Refrigerant type		R410A	R410A	R410A

Map Pumps

300 GPH
500 GPH
600 GPH
800 GPH



MAP Sealless Magnetic Circulation Pump for Salt Water and Fresh water. Approved for highly corrosive environment

Pumps

MarinAire® pumps stand at the extreme edge in the field of hi-tech magnetic pumps. The MAP series are designed to pump fresh water, salt water, highly corrosive chemicals, and solutions.

The MAP series feature a leak proof, seal-less magnetic drive, and they are designed for in-line, non-submersed use. They have a unique design with a stylish appearance. In particular, its bearing adopts ceramic material with a special formula featuring strong resistance to abrasion and corrosion. The MAP series also features a low power consumption, a low starting current and a high energy efficiency.



MAP300** (recommended for up to 10,000 btuh systems)
MAP500** (recommended for 11,000 to 17,000 btuh systems)
MAP600** (recommended for 18,000 to 24,000 btuh systems)
MAP800** (recommended for 25,000 to 40,000 btuh systems)

Technical Specifications

Model	power	Inlet & Outlet (In)	Maximum Capacity		Standard Capacity		Medium Density (LB/cubic foot)	Motor Power (Watt)	Motor Speed (rpm)
			Maximum Flow (GPH)	Maximum Head (Ft)	Standard Flow (GPH)	Standard Head (Ft)			
MAP300KT	110V/60hz	1/2"	304	7,0	152	4,0	<81	10	2900
MAP500KT	110V/60hz	1/2"	513	10,0	323	6,0	<74	20	2900
MAP600KT	110V/60hz	3/4"	627	12,0	304	8,0	<81	45	2900
MAP800KT	110V/60hz	3/4"	855	15,0	418	13,0	<68	65	2900
MAP300CT	230V/60hz	1/2"	304	7,0	152	4,0	<81	10	2900
MAP500CT	230V/60hz	1/2"	513	10,0	323	6,0	<74	20	2900
MAP600CT	230V/60hz	3/4"	627	12,0	304	8,0	<81	45	2900
MAP800CT	230V/60hz	3/4"	855	15,0	418	13,0	<68	65	2900

Model	power	Inlet & Outlet (In)	Maximum Capacity		Standard Capacity		Medium Density (g/cm3)	Motor Power (Watt)	Motor Speed (rpm)
			Maximum Flow (liter/min)	Maximum Head(m)	Standard Flow (liter/min)	Standard Head (m)			
MAP300ET	220V/50Hz	1/2"	16	2,4	8	1,5	1,3	10	2900
MAP500ET	220V/50Hz	1/2"	27	3,1	17	2	1,2	20	2900
MAP600ET	220V/50Hz	3/4"	33	3,8	16	2,5	1,3	45	2900
MAP800ET	220V/50Hz	3/4"	45	4,6	22	4	1,1	65	2900

D-Smart

Controls & Accesories



D-Smart control systems

MarinAire® offers smart control systems with advanced, microprocessor-based control units. These special features that are unique to the industry, have built-in safeguards to protect the entire system from damaging conditions, such as low or high refrigerant pressure or any other abnormalities. The built-in self diagnostic features automatically identify the problem and indicate the error code while protecting the unit. The controller can be programmed for Centigrade or Fahrenheit display. A large, easy-to-read illuminated LCD display shows cabin temperature, setting temperature, operation mode, fan speed, and error code warnings. Specifically designed for harsh environments, the smart control system features electronics with resin coating.

MarinAire's state of the art, D-Smart control systems involves sophisticated programming, and factory-set running parameters. The wall controller is connected to the main board via RJ11 jack. Self contained DX, split DX, Chiller, and fan coil versions are available.

Remote Controller

The large LCD displayed infrared remote control makes it easier to setup/manage the control features remotely.

The wireless remote control is a standard item and ships with every product. The small sized ergonomic wireless remote control comes with a wall bracket so that it does not get lost in the cabin.



Control Features

- Illuminated LCD Displays
- Wired and wireless controls
- Automatic heat - cool changeover
- EEPROM Memory (remembers last settings)
- Auto - restart (incase of power interruption)
- Automatic pump cycling
- Humidity display
- Dehumidification function
- On/off timer
- 3 speed fan
- Centigrade / Fahrenheit display
- Overheating protection
- Freeze protection
- Insufficient water flow protection
- Abnormal operation protection
- Low pressure protection
- High pressure protection



Miami FL USA - (800) 724-8071



<http://www.facebook.com/MarinAire>



<http://twitter.com/MarinAire>

www.marinaire.com