



 **MarinAire[®]**
The Comfort You Deserve



Innovation in air conditioning and heating



Company Information

Headquartered in Miami, Florida USA, MarinAire® manufactures high-end, luxury & innovative air conditioning solutions for the boating industry. Since 2007, MarinAire® has rapidly gained traction becoming the fastest growing company in the HVAC field by using highly experienced engineering to increase the quality, reliability, and efficiency, of their products. MarinAire® serves as a global provider of marine and geothermal heating, ventilation, and air conditioning (HVAC) products. MarinAire® also participates in constant research and development activities involving HVAC, striving to be a pioneer of various innovations in the market.

History

MarinAire Technologies Inc. is an American HVAC corporation that was established in 2007. After meticulous research and development, MarinAire® launched its MSA product line in 2008. Two years later, the MSB series followed. In 2010, the company obtained federal registration of the trademark MarinAire®. Since 2012, when MarinAire® introduced the MSBA series, further development has resulted in multiple new generations of MSBA products, with even more innovative updates to be introduced in the near future.

Technology

Each MarinAire® product is crafted with attention to design and superior workmanship, and to that end MarinAire® employs the most advanced production technologies in their manufacturing plant. Each product is identified, tracked, and recorded using RF ID technology through a fully automated assembly line. The products must then pass ten tests before they can be considered acceptable for consumer use. These tests comprise of four types of leak test followed by performance, electrical, and mechanical safety testing, a visual inspection, and a smog test. Only if they pass all these stringent tests can they be packaged, weight-tested, and shipped. Units with pressure gauges are double checked in distribution centers before reaching the customer. The R&D team at MarinAire® consists of mechanical and electrical engineers who undertake ongoing tasks for improvements to the marine air conditioning systems. The manufacturing plant boasts two performance testing labs, a safety testing lab and a noise level & sound pressure testing lab, and there are a total of over



300 employees working in production, R&D, logistics, marketing and IT. The manufacturing plant also applies the Six Sigma process and quality management methods on production to ensure that only the best possible product reaches the end user.

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Micra

6000 Btu/h



MSBA, Micra™ Series

The Micra is the perfect solution for small boats, small cabins, and cuddy cabins. The Micra could also serve as an open-air spot cooler in the cockpit. With a height and width of only 10 inches, the Micra was designed to fit discreetly in any location. It consumes only approximately 500 watts and can be easily connected to a DC inverter to be powered by a battery or some other DC power source. All MSBA units are reverse-cycle heat pumps, ensuring proper cooling and heating that adjusts with the seasons. Each unit is equipped with a three-speed fan, a digital display panel (with remote control), and the system can be set to maintain either temperature or humidity levels. These units are supplied with a remotely-mounted stainless steel electrical box to facilitate simple installation and troubleshooting. A unique innovation is the built-in sound shield, which reduces the noise so effectively that customers often find it hard to tell if the compressor is running. The water coil is fashioned from corrosion-resistant titanium, while the drain pan is made of SS316 marine grade stainless steel. These MarinAire® units are built to last!

MICRA		MSBA6K2	MSBA6C2	MSBA6E2
	V-Hz	110~120V/60Hz	230V 50~60Hz	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
- 90° 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 was designed for small watercraft and more. The Petite is a low-profile version of the Integra units. As with all MarinAire® units they use R410A, an environmentally friendly refrigerant, and can easily fit beneath a v-berth or in a storage area. All MSBA units are reverse-cycle heat-pumps, ensuring proper cooling and heating to adjust with the seasons. Each unit is equipped with a three-speed fan, a digital display panel (with remote control), and the system can be set to maintain either temperature or humidity levels. The blower can rotate 360 degrees to adapt to any duct position, and these units are supplied with a remotely-mounted stainless steel electrical box to facilitate simple installation and troubleshooting. A unique innovation is the built-in sound shield, which reduces compressor noise so effectively that customers often find it hard to tell if the compressor is running. The water coil is fashioned from corrosion-resistant titanium, while the drain pan is made of SS316 marine grade stainless steel. MarinAire® BSBA Petite units are built to last.

PETITE

		MSBA9K2	MSBA9C2	MSBA9E2
	V-Hz	110~120V/60Hz	230V 50~60Hz	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, being the first marine air conditioners to feature built-in refrigerant gauges as a standard feature. The Integra is offered in three separate Btu options.

The built-in pressure gauges make it easy for the consumer to monitor the air conditioner's operational health, eliminating the need for third party intervention in many cases.

All MSBA units are reverse-cycle heat-pumps. Each unit is equipped with a three-speed fan, a digital display panel (with remote control), and the system can be set to maintain either temperature or humidity levels.

The blower can rotate 360 degrees, and these units are supplied with a remotely-mounted stainless steel electrical box to facilitate simple installation and troubleshooting.

A unique innovation is the built-in sound shield, which reduces compressor noise drastically. The water coil is fashioned from corrosion-resistant titanium, while the drain pan is made of SS316 marine grade stainless steel which is built to last in the demanding marine environment. Integra units utilize environmentally-friendly R410A refrigerant.

Technical Specifications

		MSBA11K2	MSBA11C2	MSBA11E2
	V-Hz	110~120V/60Hz	230V 50~60Hz	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	230V 50~60Hz	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	230V 50~60Hz	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

Features and benefits

- Whisper quiet operation
- Built-in pressure gauges
- 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

Maxi

20000 Btu/h 24000 Btu/h

Maxi™ series

The MSBA Maxi is a larger adaptation of the Integra units and is currently offered in 20,000 and 24,000 Btu.

The built-in pressure gauges make it easy for the consumer to monitor the air conditioner's operational health. Each unit is equipped with a three-speed fan, a digital display panel, and the system can be set to maintain either temperature or humidity levels.

The blower can rotate 360 degrees, and these units are supplied with a remotely-mounted stainless steel electrical.

A unique innovation is the built-in sound shield, which reduces compressor noise so effectively that customers often find it hard to tell if the compressor is running.

The water coil is fashioned from corrosion-resistant titanium, while the drain pan is made of SS316 marine grade stainless steel and built to last in the marine environment.

Maxi units utilize environmentally-friendly R410A refrigerant.

Technical Specifications

	V-Hz	MSBA20C2	MSBA20E2
Cooling capacity	Btu	20000	20000
Heating capacity	Btu	20000	20000
Max. input consumption	W	1877	1877
Running current	A	6.7	6.7
Starting current	A	14.5	14.5
Water flow	GPH	500	500
Indoor air flow (Hi)	CFM	550	550
Noise level	dB(A)	≤46	≤46
Dimension (W*D*H)	in	27 x 19 x 17.6	27 x 19 x 17.6
Net weight	LBS	93	93
Refrigerant type		R410a	R410a

	V-Hz	MSBA24C2	MSBA24E2
Cooling capacity	Btu	24000	24000
Heating capacity	Btu	24000	24000
Max. input consumption	W	2450	2450
Running current	A	8.5	8.5
Starting current	A	17	17
Water flow	GPH	500	500
Indoor air flow (Hi)	CFM	600	600
Noise level	dB(A)	≤46	≤46
Dimension (W*D*H)	in	27 x 19 x 17.6	27 x 19 x 17.6
Net weight	LBS	97	97
Refrigerant type		R410a	R410a

Features and benefits

- Whisper quiet operation
- Built-in pressure gauges
- Compact size
- 360° Rotatable blower
- NEW! Blower locking system
- Ridged construction
- SS315 Stainless Steel Drain Pan
- Compressor sound shield
- Light weight
- High efficiency
- High air volume
- Low start up current
- Environmentally friendly
- D-Smart Control System



D-Smart

Controls & Accesories



D-Smart control systems

MarinAire® air conditioning units are supplied standard with advanced, microprocessor-based control units, with many features unique to the industry. D-Smart controls have built-in safeguards to protect the entire system from damaging conditions such as low or high refrigerant pressure and other abnormalities. The self-diagnostic feature automatically identifies any problem and displays an error code on the display while protecting the unit. A large, easy-to-read, illuminated LCD display shows cabin temperature, setting temperature, operation mode, and fan speed. Additionally, the control system electronics have a resin coating specifically designed for harsh environments. MarinAire®'s state of the art, D-Smart control systems feature sophisticated programming, factory-set running parameters, and are also compatible with third party Wi-Fi controllers. The D-Smart display is connected to the electrical box via CAT-5 cable/RJ45 jack.

Remote Controller

The infrared remote control with LCD display makes it easy to set up and manage the control features remotely, and is a standard item that ships with every product. It's small size and ergonomic design is complemented by a wall bracket to ensure that it's always handy when required.



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

Mfp Pumps



300 GPH
500 GPH
600 GPH
800 GPH

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

Pumps

MarinAire® pumps are on the leading edge in the field of hi-tech centrifugal magnetic-drive pumps.

The MFP series of non-submersible pumps are designed for fresh water, salt water, and highly corrosive chemicals, and their seal-less magnetic drive ensures leak-free performance. Bearing surfaces utilize a specially formulated ceramic material that features strong resistance to abrasion and corrosion.

MFP series pumps also feature low power consumption, low starting current, and high energy efficiency.



MFP300** (recommended for up to 10,000 BTUH systems)
 MFP500** (recommended for 11,000 to 17,000 BTUH systems)
 MFP600** (recommended for 18,000 to 24,000 BTUH systems)
 MFP800** (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)			
MFP300KT	110V/60hz	1/2"	304	7,0	152	4,0	<81	10	2900
MFP500KT	110V/60hz	1/2"	513	10,0	323	6,0	<74	20	2900
MFP600KT	110V/60hz	3/4"	627	12,0	304	8,0	<81	45	2900
MFP800KT	110V/60hz	3/4"	855	15,0	418	13,0	<68	65	2900
MFP300CT	230V 50~60Hz	1/2"	304	7,0	152	4,0	<81	10	2900
MFP500CT	230V 50~60Hz	1/2"	513	10,0	323	6,0	<74	20	2900
MFP600CT	230V 50~60Hz	3/4"	627	12,0	304	8,0	<81	45	2900
MFP800CT	230V 50~60Hz	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)			
MFP300ET	220~240V 50Hz	1/2"	16	2,4	8	1,5	1,3	10	2900
MFP500ET	220~240V 50Hz	1/2"	27	3,1	17	2	1,2	20	2900
MFP600ET	220~240V 50Hz	3/4"	33	3,8	16	2,5	1,3	45	2900
MFP800ET	220~240V 50Hz	3/4"	45	4,6	22	4	1,1	65	2900



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