

**PERFECT**  
**AMBIENT**



**MARINE**  
**AIR CONDITIONING**  
**SOLUTIONS**

# TABLE OF CONTENTS

<b>Driven by Innovation!</b> .....	<b>03</b>
<b>ESC Units</b> .....	<b>04-05</b>
<b>VSC Units</b> .....	<b>06-07</b>
<b>SDC Units</b> .....	<b>08-09</b>
<b>DC System Packages</b> .....	<b>10-15</b>
<b>SCP Units</b> .....	<b>16-17</b>
<b>Chiller</b> .....	<b>18-19</b>
<b>Fan Coils</b> .....	<b>20-23</b>
<b>Air Grills</b> .....	<b>24-25</b>
<b>Air Distribution</b> .....	<b>26-27</b>
<b>Water Pumps</b> .....	<b>28-35</b>
<b>Water Circuit Accessories</b> .....	<b>36-38</b>
<b>Relay Boxes</b> .....	<b>39-40</b>
<b>Sync Modul</b> .....	<b>41</b>
<b>Displays</b> .....	<b>42</b>
<b>PCB Main Boards</b> .....	<b>43</b>
<b>Parts for DC Systems</b> .....	<b>44</b>
<b>Fittings and Hose Connectors</b> .....	<b>45</b>



# DRIVEN BY INNOVATION!

**We offer a wide range of marine air conditioners to keep your boat at the most comfortable temperature!**

MBC Marine is a Hungarian company, established in 2010, specializing in high-tech marine air conditioners. We proudly manufacture our products in the EU using only the highest quality components available on the market.

## **More than just a supplier!**

In addition to air conditioners, we provide all the accessories needed for the full installation of air conditioning systems on any type of boat, including grilles, ducts, pumps, and more.



Our technical and commercial team are happy to assist you in choosing the ideal air conditioning system for your projects based on the boat's layout and the owner's specific needs.

## **Own warehouse stock**

We produce air conditioners for our warehouse, giving our customers the significant advantage of having all the products, accessories, and spare parts they need always in stock.

## **Certified Quality and Safety**

All MBC Marine products are fully CE and TÜV certified, ensuring safety, reliability, and compliance with the highest European standards.

**SIMPLY COOL**  
**SIMPLY SMART**  
**SIMPLY PROFESSIONAL**

# ESC UNITS

SELF CONTAINED  
COMPACT SYSTEMS

**8.000 - 24.000 BTU/H**

Experience the Marine Comfort  
with MBC Marine ESC Units!

Ensure ideal temperature and fresh air onboard  
anytime, anywhere.



**ONE SYSTEM.  
ALL SEASONS. ANY VESSEL.**



#### **Compact & Efficient Design**

Self-contained AC units built to fit any vessel - from single cabins to full boats.



#### **Smart Touchscreen Control**

Digital control panel with Wi-Fi connectivity for remote access and easy operation.



#### **Quiet & Powerful Airflow**

5-speed fan with auto mode and adjustable air outlet for personalized comfort.



#### **Cooling & Heating Year-Round**

Built-in heat pump ensures comfort in all seasons.



#### **Built for Marine Durability**

Corrosion-resistant components, copper antimicrobial evaporators & safety protections.



UNIT PARAMETERS		ESC08	ESC10	ESC13	ESC16	ESC24
Cooling capacity	Btu/h	8 000	10 000	13 000	16 000	24 000
Heating capacity	Btu/h	8 700	11 000	13 800	17 600	26 400
Power source		230V/50-60Hz				
Amp Draw (A)	Cooling	3.3	3.5	4.2	5.1	7.9
	Heating	3.7	4	5.2	6.5	9.9
Air flow (m <sup>3</sup> /h)	High	420	500	580	730	1200
	Middle	350	405	495	610	1080
	Low	280	350	410	520	900
Refrigerant		R32				
Dimension	Height	320	322	350	360	430
	Width	420	500	500	510	690
	Depth	255	305	305	320	448
Refrigerant Air Duct Size (mm)		125	125	125	150	200
Minimum Return Air Grille Size (cm <sup>2</sup> )		300	450	450	510	720
Minimum Supply Air Grille Size (cm <sup>2</sup> )		750	800	800	1030	1400
Drain Connection Size		DN20	DN20	DN20	DN20	DN20
Seawater pipe		5/8"	5/8"	5/8"	5/8"	5/8"
Net Weight (kg)		18	24	24.5	28.5	58



## MBC MARINE SMART CONNECT

With the Smart Touch digital touchscreen controller, providing seamless control of your onboard climate. The 4.3-inch Wi-Fi-enabled touchscreen allows remote access from anywhere via your smartphone.





# VSC UNITS

**8.000 - 24.000 BTU/H**

**NEXT-GEN CLIMATE CONTROL  
WITH INVERTER PRECISION**

**The VSC series introduces the latest inverter  
variable speed technology for maximum  
efficiency, flexibility, and whisper-quiet  
performance onboard.**

**With intelligent regulation, the system automatically  
adjusts its output to match the exact cooling or  
heating demand – ensuring stable temperature,  
reduced energy consumption, and superior  
comfort in all conditions.**

**YEAR-ROUND COMFORT  
EVEN IN THE MOST  
DEMANDING MARINE  
CONDITIONS.**



#### **Inverter Technology**

Automatically adjusts compressor speed  
for highly efficient operation.



#### **Whisper-Quiet Operation**

Enjoy a peaceful onboard environment  
with ultra-low noise levels.



#### **Smart Touch Control**

Wi-Fi enabled touchscreen controller  
with remote access.



#### **Precise Climate Regulation**

Constant temperature control for the  
ultimate onboard comfort.



#### **Marine-Grade Durability**

Built with corrosion-resistant materials  
for long-lasting performance.



#### **Eco-Friendly Refrigerant**

Operates with environmentally friendly  
refrigerant for sustainable cruising.



UNIT PARAMETERS		VSC08	VSC13	VSC16	VSC24
Cooling capacity	Btu/h	8 000	13 000	16 000	24 000
Heating capacity	Btu/h	8 700	13 800	17 600	26 400
Power source		230V/50-60Hz 1Ph			
Input power (kW)	Cooling	0.74	1.01	1.17	1.75
	Heating	0.86	1.28	1.56	2.2
Amp Draw (A)	Cooling	0,66 – 1,52	1,07 – 2,45	1,32 – 3,03	1,98 – 4,55
	Heating	0,76 – 1,75	1,23 – 2,83	1,52 – 3,48	2,28 – 5,23
Air flow (m3/h)	High	420	580	730	1200
	Middle	350	495	610	1080
	Low	280	410	520	900
Refrigerant		R32			
Dimension	Height	320	350	360	430
	Width	420	500	510	690
	Depth	255	305	320	448
Minimum air Duct Size (mm)		125	125	150	200
Minimum Return Air Grille Size (cm <sup>2</sup> )		300	450	510	720
Minimum Supply Air Grille Size (cm <sup>2</sup> )		750	800	1030	1400
Drain Connection Size		DN20			
Seawater pipe		5/8"			
Net Weight (kg)		20	26.5	29.5	58

The VSC inverter system ensures that compressor speed is always optimized to real-time needs. This results in energy savings, quieter operation, and an extended lifetime of the unit – bringing unmatched reliability and comfort to your vessel.



## MBC MARINE SMART CONNECT

Freedom to control your comfort!

Wherever your journey takes you, Wi-Fi connectivity keeps you in control - with just a tap on your phone.

# SDCS SUNITS

STANDALONE 12/24/48V DC  
MARINE AIR CONDITIONERS

**7.000 - 12.000 - 16.000 BTU/H**

Enjoy freedom, comfort, and quiet efficiency.

Compact, energy-smart, and ultra-quiet  
air conditioning designed for boats,  
even without shore power.



## COOLING WITHOUT COMPROMISE. RIGHT ON BOARD.



### Multi-Voltage Operation

Runs on 12 V, 24 V and 48 V DC power.



### Wi-Fi Control

Adjust cabin climate remotely  
from your smartphone.



### Quiet Performance

Enjoy peaceful comfort onboard.



### All-in-One Compact Design

All components integrated in a single unit, no  
external condensing unit required – perfect for  
off-grid and low-energy cruising.



### Energy-Saving ECO Mode

Up to 40% energy savings compared to stand-  
ard DC units when paired with the SMART  
Touch controller.



UNIT PARAMETERS		SDC12-7000	SDC24-7000	SDC24-12000	SDC48-16000
Power supply	DC	DC 12V	DC24V	DC24V	DC48V
COOLING					
Capacity	BTU/H	7 000	7 000	12 000	16 000
Rated power	kW	0.45	0.56	0.72	0.96
Rated current NORMAL mode *	A	20-24	9-11	18-20	16-18
Rated current ECO mode *		16-18	7-9	10-14	11-13
HEATING					
Capacity	BTU/H	7 700	7 700	13 000	17 000
Rated power	kW	0.54	0.60	0.8	1.2
Rated current NORMAL mode *	A	28-32	18-20	40-42	23-25
Rated current ECO mode *		23-25	10-12	22-24	15-17
Seawater flow	m <sup>3</sup> /h	0.55	0.6	0.9	1.2
Air flow	m <sup>3</sup> /h	350	350	450	600
Dehumidification	L/h	0.8	1.0	1.2	1.8
Noise level	dB(A)	50-55	50-55	50	55
Width	mm	420	420	480	500
Height	mm	298	298	300	330
Depth	mm	250	250	285	315
Weight	kg	18	18	23	24
Refrigerant type		R134A			
Air duct Diameter	mm	100	100	125	150
Sea water pipe Diameter	mm	16	16	16	16

\* Note: DC power consumption varies with seawater temp, humidity, power quality, wiring, and ventilation. Rated values assume normal conditions.

The SDC series combines smart technology with practical design: its **compact size** and **ultra-quiet operation** make it ideal even for the smallest vessels, while **ECO mode** and **SMART Touch control** meet the expectations of modern boat owners. Low power consumption, maximum comfort – wherever the sea takes you.



# ALL IN ONE

*EVERYTHING  
YOU NEED  
IN ONE BOX!*

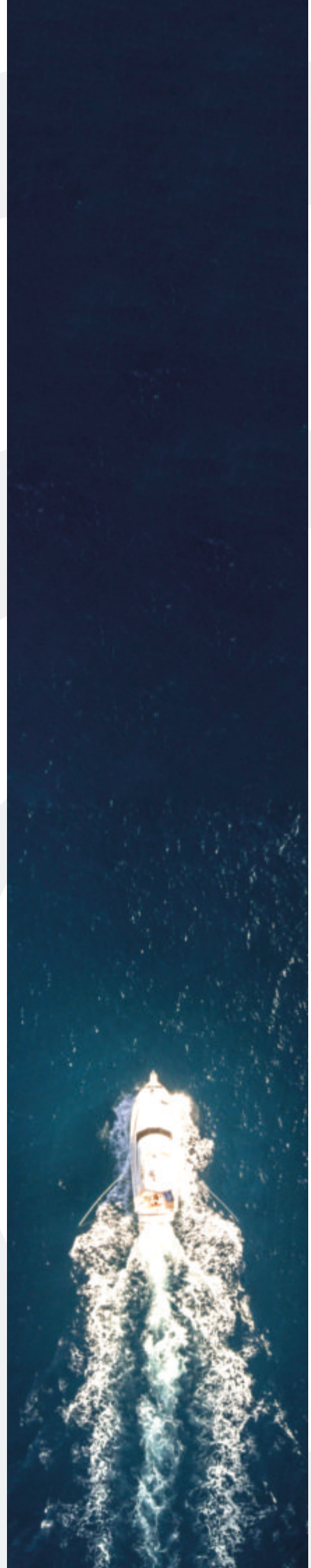
For the quick and easy  
installation of the 24V Battery  
supplied air conditioning unit!

## SDC

**24V 12.000 BTU/H**

**COMPACT  
EFFICIENT  
SMART** and whisper-quiet.

At the heart of the system is a LiFePO<sub>4</sub> 24V 100Ah battery, which provides up to 5-6 hours of autonomous operation in TURBO mode and up to 10-11 hours in ECO mode for the 12,000 BTU/H unit – without the need for shore power or a generator.



# 01 start pack

COMPACT SOLUTION  
MAXIMUM COMFORT  
AT SEA.



## » SDC 24-12000 BTU/H Package Includes:

- MBC SDC 24-12000 air conditioning unit «
- 24V LiFePo4 100 Ah Battery with Bluetooth connect «
- 24V 20A battery charger «
- MBC DC 5624F brushless circulation pump «
- MBC AMPS01 seawater strainer «
- 1/2" seawater intake fitting «
- 1/2" ball valve «
- 1x 1/2" seawater discharge «
- 3 meters Armoflex seawater pipe «
- 3x 1/2" female hose connector «
- 2x 1/2" male hose connector «
- 7x W4 16-25 stainless steel hose clamps «
- 2x 2.5 meter 35mm<sup>2</sup> power supply cables with cable lugs «
- 1x main switch «
- 1x fuse box «
- 1x 40A fuse «
- 1x 200x300 mm plastic return air grille «
- 1x 200x100 mm plastic supply air grilles «
- 3 meters thermally insulated air duct «

The SDC-24 12,000 BTU/H package sets the benchmark for DC-powered marine air conditioning. **Powered by a 24V 100Ah LiFePO4** battery, it offers the **perfect balance** of performance and efficiency – **delivering up to 5-6 hours of cooling in TURBO** mode and as **much as 10-11 hours in ECO mode**, without relying on shore power or a generator. Its compact design allows for easy installation, while ECO mode ensures longer runtime with reduced energy consumption.

For a premium touch, the optional **Woodline Edition** adds real **TEAK** or **OAK** grilles, seamlessly **combining technology with elegance**.



### smart pack:

A SMART display is available as an optional add-on, offering a modern and user-friendly interface for system control. With the built-in **ECO mode**, you can achieve up to **40-45% energy savings**, making the system even more efficient for off-grid and battery-powered setups.



### woodline pack:

And if the standard plastic supply and return air grilles don't match the interior style of your boat, choose the **Woodline Edition**, which includes **real TEAK or OAK grilles** – for perfect visual harmony and a premium look.



# ALL IN ONE

*EVERYTHING  
YOU NEED  
IN ONE BOX!*

For the quick and easy  
installation of the 24V Battery  
supplied air conditioning unit!

## SDC

**24V 7.000 BTU/H**

**COMPACT  
EFFICIENT  
SMART** and whisper-quiet.

Enjoy true freedom on board – the LiFePO<sub>4</sub> 24V 100Ah battery keeps your 7,000 BTU/H unit running for up to 9-11 hours in TURBO mode, and an impressive 13-14 hours in ECO mode – all without shore power or a generator.

# 02 start pack

COMPACT SOLUTION  
MAXIMUM COMFORT  
AT SEA.



## » SDC24-7000 BTU/H Package includes:

- MBC SDC 24-7000 air conditioning unit «
- 24V LiFePo4 100 Ah Battery with Bluetooth connect «
- 24V 20A battery charger «
- MBC DC 5624F brushless circulation pump «
- MBC AMPS01 seawater strainer «
- 1/2" seawater intake fitting «
- 1/2" ball valve «
- 1x 1/2" seawater discharge fitting «
- 3 meters Armoflex seawater pipe «
- 3x 1/2" female hose connector «
- 2x 1/2" male hose connector «
- 7x W4 16-25 stainless steel hose clamps «
- 2x 2.5 meter 16mm<sup>2</sup> power supply cables with cable lugs «
- 1x main switch «
- 1x fuse box «
- 1x 40A fuse «
- 1x 100x100 mm plastic supply air grilles «
- 1x 200x300 mm plastic return air grille «
- 3 meters thermally insulated air ducts «

The SDC-24 7,000 BTU/H package brings powerful and efficient DC air conditioning to smaller cabins and compact vessels. **Powered by a 24 V 100 Ah LiFePO4 battery**, it provides the perfect balance between runtime and energy efficiency — delivering up to **9-11 hours of cooling in TURBO** mode and as much as **13-14 hours in ECO mode**, without the need for shore power or a generator. For a premium touch, the optional **Woodline Edition** adds real **TEAK** or **OAK** grilles, seamlessly **combining technology with elegance**.



### smart pack:

A SMART display is available as an optional add-on, offering a modern and user-friendly interface for system control. With the built-in **ECO mode**, you can achieve up to **30-40% energy savings**, making the system even more efficient for off-grid and battery-powered setups.



### woodline pack:

And if the standard plastic supply and return air grilles don't match the interior style of your boat, choose the **Woodline Edition**, which includes **real TEAK or OAK grilles** – for perfect visual harmony and a premium look.



# ALL IN ONE

*EVERYTHING  
YOU NEED  
IN ONE BOX!*

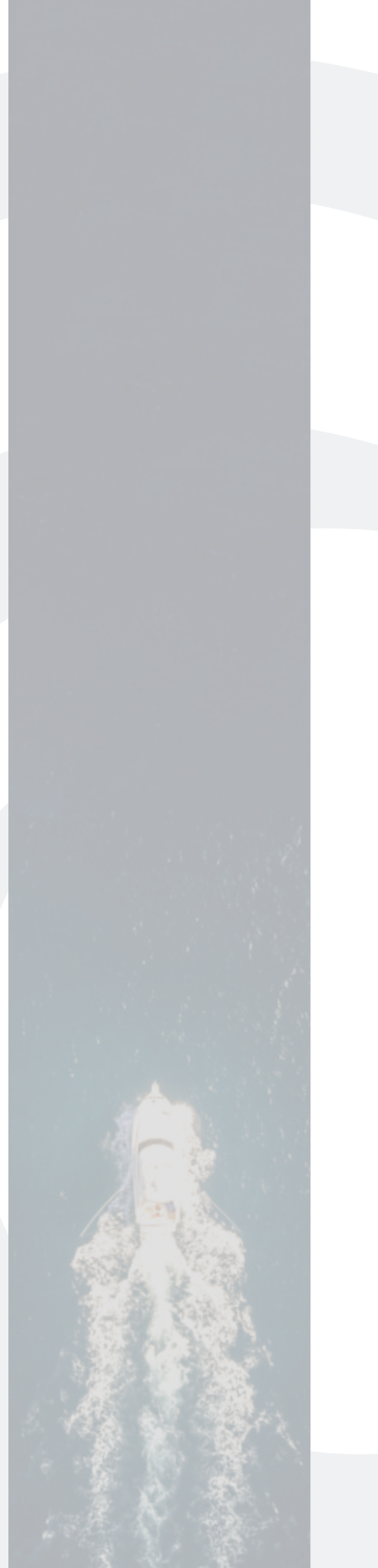
For the quick and easy  
installation of the 12V Battery  
supplied air conditioning unit!

## SDC

**12V 7.000 BTU/H**

**COMPACT  
EFFICIENT  
SMART** and whisper-quiet.

Powered by a LiFePO<sub>4</sub> 12V 100Ah battery, the 7,000 BTU/H unit can deliver up to 4 hours of cooling in TURBO mode, or as much as 6 hours in ECO mode – all without relying on shore power or a generator.



# 03

start pack

COMPACT SOLUTION  
MAXIMUM COMFORT  
AT SEA.



## » SDC12-7000 BTU/H Package includes:

- MBC SDC 12-7000 air conditioning unit «
- 12V LiFePo4 100 Ah Battery with Bluetooth connect «
- 12V 20A battery charger «
- MBC DC 5612F brushless circulation pump «
- MBC AMPS01 seawater strainer «
- 1/2" seawater intake fitting «
- 1/2" ball valve «
- 1x 1/2" seawater discharge fitting «
- 3 meters Armoflex seawater pipe «
- 3x 1/2" female hose connector «
- 2x 1/2" male hose connector «
- 7x W4 16-25 stainless steel hose clamps «
- 2x 2.5 meter 25mm<sup>2</sup> power supply cables with cable lugs «
- 1x main switch «
- 1x fuse box «
- 1x 40A fuse «
- 1x 200x300 mm plastic return air grille «
- 1x 200x100 mm plastic supply air grilles «
- 3 meters thermally insulated air duct «

The SDC-12 7,000 BTU/H package brings true freedom to smaller boats. **Powered by a 12V 100Ah LiFePO4 battery**, it delivers the ideal balance between efficiency and practicality – **providing up to 4-4.5 hours of cooling in TURBO mode** and as much as **6-7 hours in ECO mode**, without the need for shore power or a generator. Its compact design makes installation simple even where space is limited, while ECO mode extends runtime through reduced energy consumption. For a **premium touch**, the optional Woodline Edition adds real **TEAK** or **OAK** grilles, combining **advanced technology with timeless elegance**.



### smart pack:

A SMART display is available as an optional add-on, offering a modern and user-friendly interface for system control. With the built-in **ECO mode**, you can achieve up to **20-25% energy savings**, making the system even more efficient for off-grid and battery-powered setups.



### woodline pack:

And if the standard plastic supply and return air grilles don't match the interior style of your boat, choose the **Woodline Edition**, which includes **real TEAK or OAK grilles** – for perfect visual harmony and a premium look.



# SCP SPLIT S

QUIET & EFFICIENT  
CLIMATE CONTROL

**10.000 – 24.000 BTU/H**

Your Climate. Your Comfort. Anywhere at Sea.

The SCP Split series features split-type marine air conditioners with separate condensing and ventilating units, minimizing cabin noise and saving valuable space.



## ONE SYSTEM. ALL SEASONS. ANY VESSEL.



### Ultra-Quiet Operation

Compressor placed outside the cabin for minimal noise inside.



### Split System Design

Separate condensing and evaporator units for flexible installation.



### Cooling & Heating All Seasons

Equipped with heat pump technology for year-round comfort.



### Space-Saving Layout

Fan coil fits easily under furniture or in confined spaces.



### Marine-Grade Durability

Built with corrosion-resistant components for long-lasting reliability.



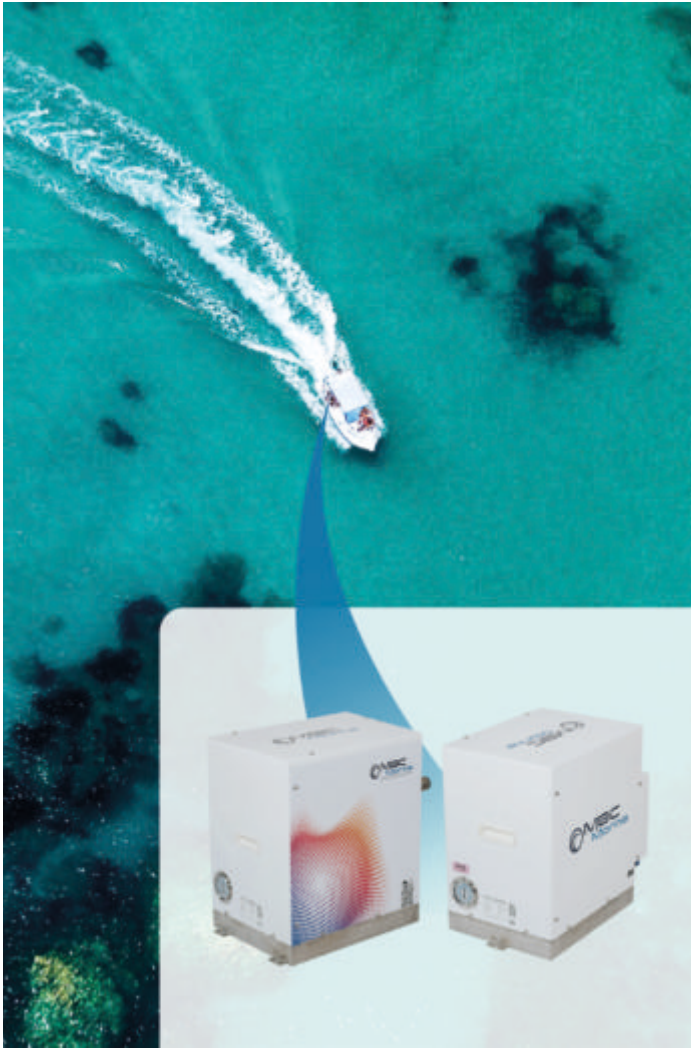
### Efficient Performance

Available in 10,000–24,000 BTU/H capacities with low energy consumption.

UNIT PARAMETERS		SCP10	SCP13	SCP16	SCP24
		Parameter list of Condensing unit			
Cooling capacity	Btu/h	10000	13000	16000	24000
Heating capacity	Btu/h	8700	13800	17600	26400
Power source		230V/50-60Hz 1Ph			
Input power (kW)		0,94	1,05	1,15	1,36
Refrigerant		R32			
Dimensions of Condensing unit	Height	315	315	365	408
	Width	280	280	330	250
	Depth	220	220	250	330
Connecting pipe	Gas	9,52	9,52	12,7	12,7
	Liquid	6,35	6,35	9,52	9,52
Sea Water Connection Size		1/2"	1/2"	1/2"	1/2"
Drain Connection Size		DN20			
Net Weight (kg)		29	30	32	58
		Parameter list of Evaporator unit			
Dimensions of Evaporator unit	Height	300	300	355	430
	Width	355	355	400	560
	Depth	245	245	320	370
Minimum air duct diameter (mm)		125	125	150	200
Input power (W)		100	150	200	300
Connecting pipe	Gas	9,52	9,52	12,7	12,7
	Liquid	6,35	6,35	9,52	9,52
Drain Connection Size		DN20			
Net Weight (kg)		10	12	14	18

**Available in four sizes (10,000–24,000 BTU/H), all models include heat pump functionality for both cooling and heating. Lightweight, compact, and whisper-quiet – the perfect solution for year-round onboard comfort.**





# VED CHILLER

**24.000 – 120.000 BTU/H**

## SMART & POWERFUL MARINE CLIMATE CONTROL VARIABLE CAPACITY CHILLERS

MBC Marine's **Variable Capacity Chillers** (24,000–120,000 BTU/H) deliver **precise, energy-efficient climate control** for demanding marine environments.

With **advanced inverter technology** and intelligent multi-phase control, these chillers adapt output to real-time needs, ensuring **maximum onboard comfort** while minimizing energy consumption.

Designed for **yachts, catamarans, and larger vessels.**

The MBC Marine Chillers are available in both **230V single-phase and 400V three-phase models**, making them suitable for a **wide range of applications** from new builds to retrofit projects.

**ONE SYSTEM.  
ALL SEASONS. ANY BOATS.**



### Variable Capacity Technology

Inverter-driven output adapts to load conditions for maximum efficiency.



### Marine-Grade Titanium Heat Exchangers

Resistant to saltwater, humidity, and harsh marine conditions.



### Quiet & Reliable Operation

Compressor and chiller unit installed outside living spaces for reduced noise.



### 230V 50-60Hz/1Ph & 400V 50-60Hz/3Ph Models

Flexible solutions for different vessel sizes and power requirements.



### Durable Construction

Reinforced powder-coated housing built for long-term offshore use.

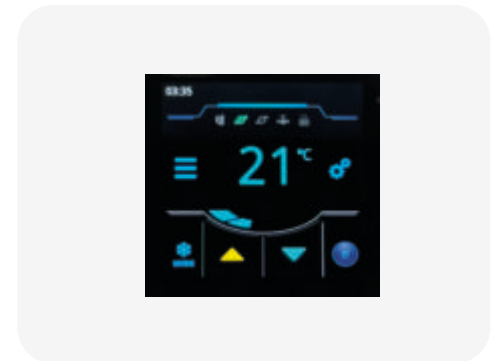


### Intelligent Diagnostics

Integrated multi-level monitoring and fault detection to prevent downtime.

230V 50-60Hz 1 Ph UNIT PARAMETERS		HC24VFD - 1	HC36VFD - 1	HC50VFD - 1	HC64VFD - 1	HC80VFD - 1
Cooling Capacity	Btu/h	24 000	36 000	50 000	64 000	80 000
Power Source		230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz
Amp Draw (A)	Cooling	6 A	10 A	13 A	18 A	25 A
Amp Draw (A)	Heating	8 A	12 A	15 A	20 A	28 A
Sea Water Flow	L/min	25 L/min	33 L/min	40 L/min	55 L/min	65 L/min
Sea Water Connection size	IN	16mm	16mm	3/4"	3/4"	3/4"
Sea Water Connection size	OUT	16mm	16mm	3/4"	3/4"	3/4"
Chilled Water Connection Flow	L/min	21 L/min	28 L/min	35 L/min	36 L/min	60 L/min
Chilled Water Connection Size	IN	3/4"	3/4"	1"	1"	1"
Dimension of Unit	Height	470	470	490	490	560
	Width	300	300	340	340	380
	Depth	470	470	540	600	650
Net Weight (kg)		35kg	38kg	52kg	56kg	75kg

400V 50-60Hz 3 Ph UNIT PARAMETERS		HC64VFD-3	HC80VFD-3	HC96VFD-3	HC120VFD-3
Cooling Capacity	Btu/h	64 000	80 000	96 000	120 000
Power Source		400V/50-60Hz	400V/50-60Hz	400V/50-60Hz	400V/50-60Hz
Amp Draw (A)	Cooling	6 A	8,3 A	12 A	15 A
Amp Draw (A)	Heating	6,6 A	9,3 A	14 A	17 A
Sea Water Flow	L/min	55 L/min	65 L/min	75 L/min	110 L/min
Sea Water Connection size	IN	3/4"	3/4"	3/4"	3/4"
Sea Water Connection size	OUT	3/4"	3/4"	3/4"	3/4"
Chilled Water Connection Flow	L/min	36 L/min	60 L/min	67 L/min	84 L/min
Chilled Water Connection Size	IN-OUT	1"	1"	1"	1"
Dimension of Unit	Height	490	560	560	640
	Width	340	380	380	380
	Depth	600	650	750	750
Net Weight (kg)		56kg	75 kg	80kg	97kg



MBC Marine Chiller systems combine **durability, efficiency, and intelligent performance** in one professional package. From mid-sized yachts to large commercial boats, they deliver year-round comfort, energy savings, and unmatched reliability – even under the toughest marine conditions.



# VERTICAL FAN COIL

Quiet & Efficient Fan Coil Units  
for Marine Chiller Systems

**8.000 - 24.000 BTU/H**

MBC Marine fan coil units are the perfect complement to our chiller systems.

Combining compact **design, durability, and whisper-quiet performance**, they ensure that every cabin benefits from precise, reliable, and efficient climate control - offering year-round comfort onboard.



## ONE SYSTEM. ALL SEASONS. ANY VESSEL.



### Silent Operation

Low-noise design ensures cabin comfort without disturbance.



### Built-In Electric Heater

Provides reliable heating and cooling in all seasons.



### Integrated Flow Control Valve

Precise performance and efficient water circulation.



### Digital Display

Easy operation and real-time monitoring for each cabin.



### Marine-Grade Durability

AISI 316 stainless steel tray and anti-corrosion housing for long service life.



### Compact Design

Fits discreetly under furniture or in confined spaces.

UNIT PARAMETERS		CFPG08	CFPG10	CFPG12	CFPG16	CPFG24
Cooling capacity	Btu/h	8 000	10 000	12 000	16 000	24 000
Power source		230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz
Electical Heater Power	W	-	1000W	1000W	1000W	2000W
Input power	W	100 W	120 W	150 W	200 W	220 W
Drain Water Connection size		DN20	DN20	DN20	DN20	DN20
Chilled Water Flow	L/min	6,5 L/min	9,5 L/min	11,5 L/min	16,5 L/min	23,5 L/min
Chilled Water Connection Size		3/4"	3/4"	3/4"	3/4"	3/4"
Dimension of Unit	Width	420	460	500	530	630
	Height	290	315	320	370	430
	Depth	261	290	320	330	373
Net Weight (kg)		8,5 kg	10,5 kg	12,8 kg	14,9 kg	19,8 kg



**With a built-in flow control valve** and digital display, these units deliver **precise performance and simple monitoring**. The AISI 316 stainless steel tray and **corrosion-resistant housing** provide long-lasting durability in marine environments, while the compact design ensures quiet operation even in small cabins. In addition, **each unit is equipped with an integrated electric heater**, providing efficient heating capability whenever required.



# HORIZONTAL FAN COIL

## Quiet & Efficient Fan Coil Units for Marine Chiller Systems

**8.000 - 16.000 BTU/H**

The MBC Marine Horizontal Fan Coil units are specially designed for marine applications and provide the ideal solution for installations in areas with limited height — such as cabins, under-ceiling spaces, or floor-level compartments.

With their compact design, quiet operation, and excellent thermal performance, they are the perfect complement to MBC Marine chiller systems.

**ONE SYSTEM.  
ALL SEASONS. ANY VESSEL.**



### Silent Operation

Low-noise design ensures cabin comfort without disturbance.



### ABS fan blade

Lightweight, corrosion-resistant ABS fan blade ensuring quiet and efficient airflow.



### Integrated Flow Control Valve

Precise performance and efficient water circulation.



### Digital Display

Easy operation and real-time monitoring for each cabin.



### Marine-Grade Durability

AISI 316 stainless steel tray and anti-corrosion housing for long service life.



### Compact Design

Fits discreetly under furniture or in confined spaces.



CFP 08	
Capacity (BTU/h)	8 000 BTU/h
Voltage / Frequency	230V / 50-60Hz
Electrical Heater	1 000W
Warranty	2-year
Evaporator Material	Blue-Fin Coating
Basic package includes:	LED Display, FCU Controller, 5m Network cable, Insulation tape
Unit Dimensions (cm) H x W x D	195x580x475
Package Dimensions (cm) H x W x D	220x630x500
Air Flow	350 m <sup>3</sup> /h
UNIT Weight (kg)	14 kg
Shipping Weight (kg)	16,8kg

CFP 12	
Capacity (BTU/h)	12 000 BTU/h
Voltage / Frequency	230V / 50-60Hz
Electrical Heater	1 000W
Warranty	2-year
Evaporator Material	Blue-Fin Coating
Basic package includes:	LED Display, FCU Controller, 5m Network cable, Insulation tape
Unit Dimensions (cm) W x H x D	850x195x475
Package Dimensions (cm) W x H x D	900x220x550
Air Flow:	630 m <sup>3</sup> /h
UNIT Weight (kg)	17 kg
Shipping Weight (kg)	19,6kg

CFP 16	
Capacity (BTU/h)	16 000 BTU/h
Voltage / Frequency	230V / 50-60Hz
Electrical Heater	1 000W
Warranty	2-year
Evaporator Material	Blue-Fin Coating
Basic package includes:	LED Display, FCU Controller, 5m Network cable, Mounting brackets, Insulation tape
Unit Dimensions (cm) W x H x D	950x195x475
Air Flow:	800 m <sup>3</sup> /h
Package Dimensions (cm) W x H x D	1050x320x550
UNIT Weight (kg)	19kg
Shipping Weight (kg)	22,1kg





# AIR GRILLS

## MBC MARINE AIR GRILLS ELEGANT DESIGN AND EFFICIENT AIRFLOW

MBC Marine air grills are designed to ensure quiet and efficient airflow for marine air conditioning systems, while complementing the aesthetic of any yacht interior.

Our selection includes both **supply** and **return** air grills, available in **durable plastic** or **premium real wood (TEAK or OAK frame)** options to suit a wide range of installations.

## RETURN AIR GRILLS

PLASTIC RETURN AIR GRILLS	SIZE
<b>WHITE:</b>	
RAG-2525-WP	250x250mm
RAG-3020-WP	300x200mm
<b>BLACK:</b>	
RAG-2525-PB	250x250mm
RAG-3020-PB	300x200mm

WOOD RETURN AIR GRILLS	SIZE
<b>TEAK:</b>	
RAG1545-T	150x450mm
RAG2525-T	250x250mm
RAG2545-T	250x450mm
<b>OAK:</b>	
RAG1545-O	150x450mm
RAG2525-O	250x250mm
RAG2545-O	250x450mm



## SUPPLY AIR GRILLS

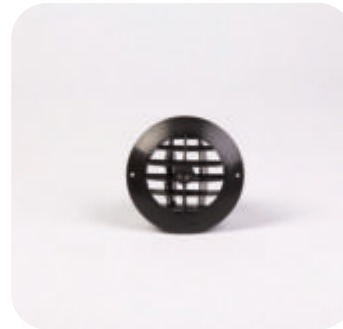
PLASTIC SUPPLY AIR GRILL	SIZE
<b>BLACK:</b>	
PSAG-100-B	100x100mm
<b>WHITE:</b>	
PSAG-100-W	100x100mm
<b>MAHAGONI:</b>	
PSAG-100-M	100x100mm



TEAK WOOD SUPPLY AIR GRILL	SIZE
<b>TEAK:</b>	
SAG-2010-T	200x100mm
SAG-2515-T	250x150mm
<b>OAK:</b>	
SAG-2010-O	200x100mm
SAG-2515-O	250x150mm



BLACK PVC "ROUND"	SIZE
<b>BLACK:</b>	
PSAGB-R-100B	100mm
<b>WHITE:</b>	
PSAGB-R-100W	100mm



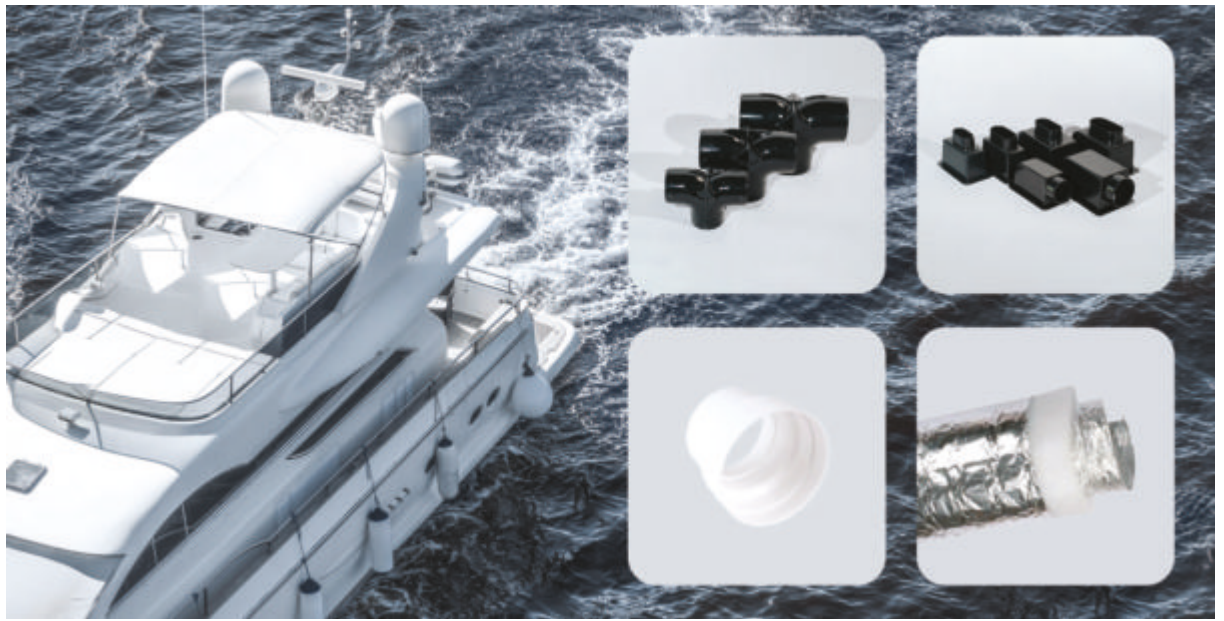
WHITE PLASTIC SUPPLY AIR GRILL	SIZE
SAG-2010-WP	200x100mm



BLACK PLASTIC SUPPLY AIR GRILL	SIZE
SAG-2010-BP	200x100mm



# AIR DISTRIBUTION



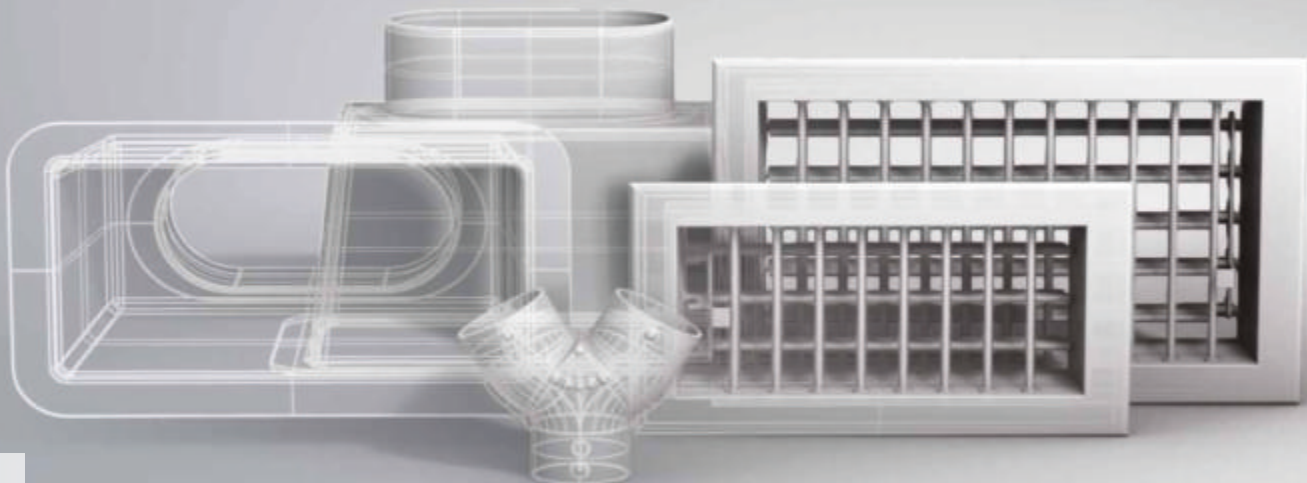
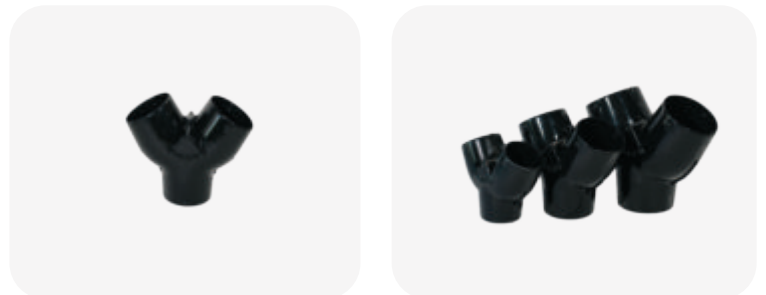
Discover MBC Marine's **complete range of air distribution** components - designed for **reliable performance, easy installation, and long-lasting durability** in any marine environment. At MBC Marine, **we are proud to be the only manufacturer in Europe** providing high-quality air conditioning solutions and accessories for boats. Our extensive range of accessories is designed to enhance your system's performance,

## AIR DIVIDERS

AIR DIVIDER "T"	SIZE
AST-100	100 mm
AST-125	125 mm
AST-150	150 mm



AIR DIVIDER "Y"	SIZE
ASY-100	100 mm
ASY-125	125 mm
ASY-150	150 mm



## PLENUM BOX WITH BOTTOM AIR DUCT CONNECTION

ORDER CODE	GRILL SIZE	FLANGE SIZE
PB-B-2010-100	200×100	100 mm
PB-B-2010-125	200×100	125 mm
PB-B-2515-125	250×150	125 mm
PB-B-2515-150	250×150	150 mm



## PLENUM BOX WITH SIDE AIR DUCT CONNECTION

ORDER CODE	GRILL SIZE	FLANGE SIZE
PB-S-2010	200×100	100 mm
PB-S-2515	250×150	125 mm



## AIR REDUCERS

ORDER CODE	SIZE
ASD-125-100	100-125 mm
ASD-150-125	150-125 mm
ASD-200-150	200-150 mm



## THERMALLY AND ACOUSTICALLY INSULATED AIR DUCT

ORDER CODE	SIZE
DUCT-100	100 mm
DUCT-125	125 mm
DUCT-150	150 mm
DUCT-200	200 mm





# FRESH WATER PUMPS

**RELIABLE CIRCULATION.  
MAXIMUM EFFICIENCY.**

**BUILT FOR MARINE  
PERFORMANCE.**

With compact design, low power consumption, and marine-grade materials, MBC Marine pumps deliver smooth, silent operation keeping your system efficient, your comfort uninterrupted, and your peace of mind intact.

**Perfect flow. Reliable performance.  
Built for life at sea.**

## CPM100 – FRESH WATER PUMP

SPECIFICATION	PARAMETERS
Warranty	2 years
Voltage	230 Volt
Speed	2900 rpm
Power	250 Watt
Head (Min–Max)	7–15 m
Flow rate at specified heads	10–60 liters/min
Suction connection	1 inch
Discharge connection	1 inch
Maximum suction depth	7 meters
Max liquid temperature	90 °C
Max ambient temperature	40 °C
Installation length	257 mm
Pump housing	Cast iron with threaded ISO 228/1
Shaft	Stainless steel EN 10088-3-1.4104
Mechanical seal	AR-12 Ceramic-Graphite-NBR
Impeller	Stainless steel AISI 304
Cable length	0 meters
Protection class	IP X4
Insulation class	F
Best efficiency flow rate	54 liters/min at 8 meters
Weight	6.8 kg



## CPM130 – FRESH WATER PUMP

SPECIFICATION	VALUE
Warranty	2 years
Voltage	230 Volt
Speed	2900 rpm
Power	370 Watt
Head (Min–Max)	14–22 m
Flow rate at specified heads	10–80 liters/min
Suction connection	1 inch
Discharge connection	1 inch
Maximum suction depth	7 meters
Max liquid temperature	90 °C
Max ambient temperature	40 °C
Installation length	257 mm
Pump housing	Cast iron with threaded ISO 228/1
Shaft	Stainless steel AISI 431
Mechanical seal	AR-12 Ceramic-Graphite-NBR
Impeller	Stainless steel AISI 304
Cable length	0 meters
Protection class	IP X4
Insulation class	F
Best efficiency flow rate	61 liters/min at 16 meters
Weight	7.7 kg



## CPM132 – FRESH WATER PUMP

SPECIFICATION	VALUE
Warranty	2 years
Voltage	230 Volt
Speed	2900 rpm
Power	550 Watt
Head (Min–Max)	12–22.5 m
Flow rate at specified heads	20–120 liters/min
Suction connection	1 inch
Discharge connection	1 inch
Maximum suction depth	7 meters
Max liquid temperature	90 °C
Max ambient temperature	40 °C
Installation length	257 mm
Pump housing	Cast iron with threaded ISO 228/1
Shaft	Stainless steel EN 10088-3-1.4104
Mechanical seal	AR-12 Ceramic-Graphite-NBR
Impeller	Stainless steel AISI 304
Cable length	0 meters
Protection class	IP X4
Insulation class	F
Best efficiency flow rate	90 liters/min at 17.5 meters
Weight	8.4 kg





# SEA WATER PUMPS

## 230V - 400V AC SEA WATER PUMPS

Designed for high-performance systems requiring consistent flow and durability. **These models are optimized for use with MBC Marine's chiller units** and are available in both 230V and 400V configurations.

**The ST series, made from AISI 316L marine grade stainless steel, is specifically designed for sea-water circulation.**

## 12V - 24V DC SEA WATER PUMPS

Ideal for compact installations and **energy-conscious applications**, the unit is equipped with brushless motors for low power consumption and long service life. Designed primarily for the SDC models, but with the use of an AC-DC converter, it can also be integrated with any self-contained unit.

### CPM100-ST6 SEA WATER PUMP

SPECIFICATION	VALUE
Warranty	2 years
Voltage	230 Volt
Power	250 Watt
Head (Min-Max)	6.5-15.5 m
Flow rate at specified heads	10-90 liters/min
Suction connection	1 1/4 inch internal thread
Discharge connection	1 inch internal thread
Maximum suction depth	7 meters
Max liquid temperature	90 °C
Pump housing	Stainless steel AISI 316L
Shaft	Stainless steel AISI 316L
Mechanical seal	AR-12ST6 Carbon-Ceramic
Impeller	Stainless steel AISI 316L
Cable length	0 meters
Protection class	IP X4
Weight	5.6 kg



## CPM130-ST6 – SEA WATER PUMP

SPECIFICATION	VALUE
Warranty	2 years
Voltage	230 Volt
Power	370 Watt
Head (Min-Max)	9–21.5 m
Flow rate at specified heads	10–100 liters/min
Suction connection	1 1/4 inch internal thread
Discharge connection	1 inch internal thread
Maximum suction depth	7 meters
Max liquid temperature	90 °C
Pump housing	Stainless steel AISI 316L
Shaft	Stainless steel AISI 316L
Mechanical seal	AR-12ST6 Carbon-Ceramic
Impeller	Stainless steel AISI 316L
Cable length	0 meters
Protection class	IP X4
Weight	6.5 kg



## CPM132-ST6 SEA WATER PUMP

SPECIFICATION	VALUE
Warranty	2 years
Voltage	230 Volt
Speed	2900 rpm
Power	550 Watt
Head (Min-Max)	12–22.5 m
Flow rate at specified heads	20–120 liters/min
Suction connection	1 inch
Discharge connection	1 inch
Maximum suction depth	7 meters
Max liquid temperature	90 °C
Max ambient temperature	40 °C
Installation length	257 mm
Pump housing	Cast iron with threaded ISO 228/1
Shaft	Stainless steel EN 10088-3-1.4104
Mechanical seal	AR-12 Ceramic-Graphite-NBR
Impeller	Stainless steel AISI 304
Cable length	0 meters
Protection class	IP X4
Insulation class	F
Best efficiency flow rate	90 liters/min at 17.5 meters
Weight	8.4 kg



## CPM150-ST6 SEA WATER PUMP

SPECIFICATION	VALUE
Warranty	2 years
Voltage	230 Volt
Power	750 Watt
Head (Min-Max)	14–31 m
Flow rate at specified heads	20–150 liters/min
Suction connection	1 1/4 inch internal thread
Discharge connection	1 inch internal thread
Maximum suction depth	7 meters
Max liquid temperature	90 °C
Pump housing	Stainless steel AISI 316L
Shaft	Stainless steel AISI 316L
Mechanical seal	AR-14ST6 Carbon-Ceramic
Impeller	Stainless steel AISI 316L
Cable length	0 meters
Protection class	IP X4
Weight	10.8 kg



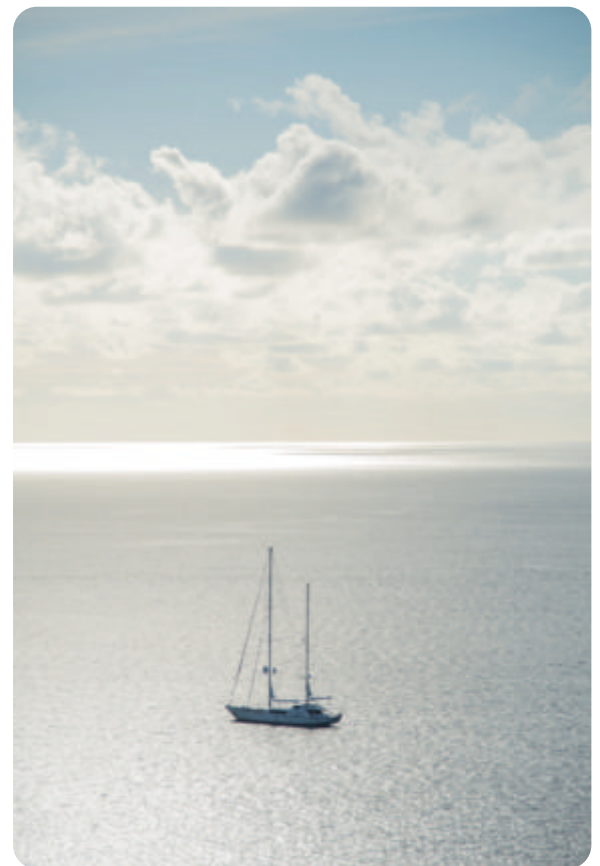
## MP20-R SEA WATER PUMP

SPECIFICATION	VALUE
Model	MBC MP-20R (220V)
Pump Type	Magnetic-drive centrifugal (sealless)
Rated Voltage	220 V 50-60Hz AC
Motor Power	~20 W
Speed	~3100 rpm
Maximum Flow Rate	~27 L/min
Maximum Head	~2.5 m
Current Draw	~0.22–0.25 A
Construction Material	Glass fiber reinforced polypropylene (GFR-PP)
Shaft	Ceramic
Bearings	PTFE (Teflon)
Impeller	GFR-PP, closed design
Sealing	Sealless (magnetic coupling)
Inlet/Outlet Connection	20 mm hose barb
Enclosure	Totally Enclosed Non-Ventilated (TENV)
Max Fluid Specific Gravity	~1.1 kg/L
Insulation Class	Class E or higher
Operating Mode	Continuous
Noise Level	Low (quiet operation)
Weight	1.8 kg



## MP40-R SEA WATER PUMP

SPECIFICATION	VALUE
Model	MBC MP-40R (220 V)
Pump Type	Magnetic-drive centrifugal (sealless)
Rated Voltage	220 V 50-60Hz AC
Motor Power	~60 W
Speed	~3200 rpm
Maximum Flow Rate	~40 L/min
Maximum Head	~6.5 m
Current Draw	~1.3 A
Construction Material	Glass fiber reinforced polypropylene (GFR-PP)
Shaft / Spindle	Ceramic (alumina)
Bearings	PTFE (Teflon)
Sealing Type	Magnetic coupling (sealless)
Inlet/Outlet Connection	20 mm hose barb
Enclosure	Totally Enclosed with Ventilation
Max Fluid Temperature	Up to 80 °C
Max System Pressure	~1 bar
Max Specific Gravity	~1.1 kg/L
Insulation Class	E or higher
Operating Mode	Continuous
Noise Level	Low (quiet operation)
Weight	~3.9 kg
Applications	Sea and Chilled water circulation



## DC4012 C 12V SEA WATER PUMP

SPECIFICATION	VALUE
Product Series	MBC Marine DC40C Serie
Pump Type	Brushless DC Magnetic Centrifugal Pump
Voltage Options	12 V DC
Power Consumption	14.4 W
Max Flow Rate	12-15 L/min
Max Head (Lift)	4-6 meters
Noise Level	< 40 dB
Rated Lifetime	> 30,000 hours
Protection Class	IP68 (Fully submersible and waterproof)
Shaft Material	Ceramic with carbon fiber sleeve
Seal Type	Magnetic isolated, no shaft seal
Pump Housing Material	Plastic (high-performance engineering resin)
Speed Control	PWM / 0-5 V analog / potentiometer
Dry-Run Protection	Optional
Jam/Lock Protection	Optional
Max Liquid Temperature	~60 °C
Ambient Temp. Range	-40 °C to 60 °C
Mounting Type	Submersible or external (non-self-priming)
Inlet/Outlet	G1/2" (M20) thread or barbed connector
Dimensions	88.5 × 81.5 × 43.8 mm
Weight	~235 g
Cable Length	~50 cm (typical)



## DC5612 E 12V SEA WATER PUMP

SPECIFICATION	VALUE
Rated Voltage	12 V DC
Power Consumption	~42 W
Max Current	~3.5 A
Max Head	Up to 10 meters
Max Flow Rate	Up to 1800 L/h (30 L/min)
Waterproof Rating	IP68
Lifetime	>30,000 hours
Noise Level	≤35 dB
Pump Housing	PPS with 30% glass fiber
Shaft Type	Ceramic shaft, magnetically isolated
Sealing	No mechanical seal (magnetic isolation)
Impeller Type	Closed impeller
Protection Features	Dry-run, overload, reverse polarity, lock
Speed Control Options	PWM / 0-5 V analog / potentiometer
Suitable Media	Water, oil, mild acid/alkaline (pre-test)
Operating Temp Range	-30 °C to +100 °C (with correct driver)
Weight	~0.52 kg
Dimensions	~100 × 75 × 60 mm (approx., model dependent)



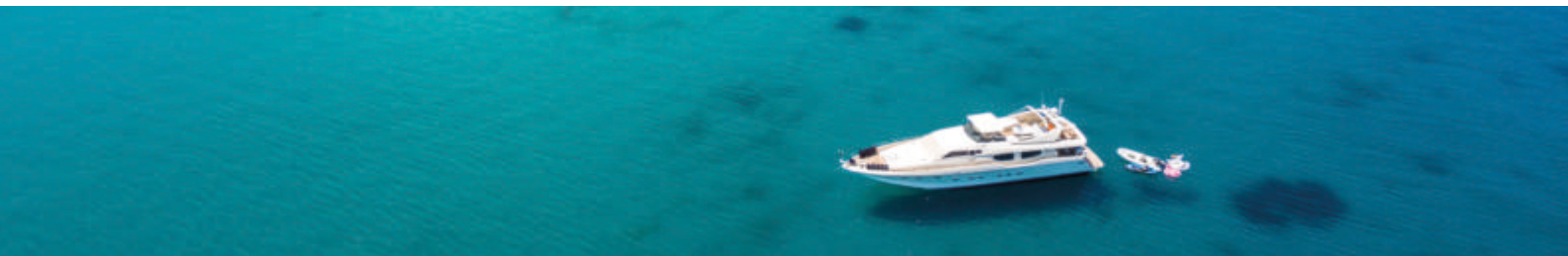
## DC4024 D 24V SEA WATER PUMP

SPECIFICATION	VALUE
Product Series	MBC Marine DC40D Series
Pump Type	Brushless DC Magnetic Centrifugal Pump
Voltage Options	24 V DC
Power Consumption	28.8 W – 1.2A
Max Flow Rate	15 L/min
Max Head (Lift)	4–6 meters (depending on model)
Noise Level	< 40 dB
Rated Lifetime	> 30,000 hours
Protection Class	IP68 (Fully submersible and waterproof)
Shaft Material	Ceramic with carbon fiber sleeve
Seal Type	Magnetic isolated, no shaft seal
Pump Housing Material	Plastic (high-performance engineering resin)
Speed Control	PWM / 0-5 V analog / potentiometer
Dry-Run Protection	Optional
Jam/Lock Protection	Optional
Max Liquid Temperature	~60 °C
Ambient Temp. Range	-40 °C to 60 °C
Mounting Type	Submersible or external (non-self-priming)
Inlet/Outlet	G1/2" (M20) thread or barbed connector
Dimensions	88.5 × 81.5 × 43.8 mm
Weight	~235 g
Cable Length	~50 cm (typical)



## DC5624 F 24V SEA WATER PUMP

SPECIFICATION	VALUE
Rated Voltage	24 V DC
Power Consumption	42–54 W
Rated Current	~1.4–2.2 A
Maximum Head	Up to 16 m
Maximum Flow Rate	Up to 2400 L/h (40 L/min)
Waterproof Rating	IP68
Expected Lifetime	>30,000 hours
Noise Level	≤35–40 dB
Pump Housing Material	PPS with 30% glass fiber
Shaft	Ceramic shaft
Sealing Type	Magnetic isolation (no seal)
Impeller	Closed impeller
Insulation Class	H (180 °C)
Inlet/Outlet	20 mm threaded
Operating Voltage Range	12–30 V DC
Operating Temperature Range	–30 °C to +100 °C
Protection Features	Dry-run, overload, reverse polarity, lock protection
Speed Control	Not available
Weight	~520 g
Dimensions	102 × 78 × 80 mm



## DC6024 G 24V SEA WATER PUMP

SPECIFICATION	VALUE
Model	DC60E
Rated Voltage	24 V DC
Power Consumption	108–120 W
Rated Current	~4.5–5 A
Maximum Head	Up to 12 m
Maximum Flow Rate	Up to 3800 L/h (~63 L/min)
Waterproof Rating	IP68
Expected Lifetime	≥30,000 hours
Noise Level	≤40 dB
Pump Housing Material	PPS with 30% glass fiber
Shaft	Ceramic
Impeller Type	Closed impeller
Sealing Type	Magnetic isolation
Insulation Class	H (180 °C)
Inlet/Outlet Size	20 mm threaded (½")
Operating Voltage Range	10–30 V DC
Operating Temperature Range	–30 °C to +100 °C
Protection Features	Dry-run, jam, overload, reverse polarity
Speed Control	Not available
Weight	~0.89 kg
Dimensions	152 × 88 × 110 mm



# WATER CIRCUIT ACCESSORIES

## DRAIN WATER MINI SLIM CONDENSATE PUMP

SPECIFICATION	VALUE
Max Flow Rate	12 liters/hour
Max Lifting Height (Head)	7 meters
Sound Level	~19 dB
Recommended A/C Capacity	Up to 30,000 BTU/H
Dimensions (Pump Unit)	Ultra-compact (typically ~29×45×45 mm)
Installation Type	Split: pump + sensor unit
Safety Switch	Yes (integrated)
Power Supply	230V / 50–60 Hz
Vibration Isolation	Yes
Application	Marine A/C condensate removal



The P12 is one of the slimmest mini-split condensate pumps available, purpose-built for tight spaces and discreet installations — making it ideal for marine applications. Its ultra-compact body, whisper-quiet operation, and vibration-dampening technology make it perfectly suited for use aboard yachts, catamarans, and compact vessels.

## DRAIN WATER PUMP SYSTEM 12-24V

SPECIFICATION	VALUE
Operating Voltage	12 V DC or 24 V DC
Max Flow Rate	800 GPH (≈ 3,000 liters/hour)
Current Draw	~2.5 A (12V) / ~1.5 A (24V)
Outlet Connection	3/4" hose barb
Pump Type	Built-in automatic pump with float switch
Lid Type	Transparent snap-fit, tool-free access
Removable Filter	Yes
Recommended Use	A/C condensate
Installation Orientation	Horizontal, above-bilge installation
Enclosure Type	Sealed plastic box, marine-grade



A reliable and compact solution designed to collect and discharge condensate water from marine air conditioning systems.

## SEA WATER STRAINER AMP-S-01

SPECIFICATION	VALUE
Connection Type	1/2" BSP (female thread)
Body Material	High-strength bakelite (black)
Cover Material	Transparent screw-on polycarbonate
Filter Basket	Stainless steel mesh (AISI 304/316)
Max Flow Rate	~20-30 l/min (depending on system)
Max Pressure	3-5 bar (typical)
Seal Type	O-ring (rubber or nitrile)
Maintenance	Tool-free, manual hand unscrew
Installation Orientation	Vertical recommended (cover on top)
Application	Marine/seawater
Use Case	A/C units, pumps



This compact and lightweight strainer is the perfect solution for protecting pumps and marine systems from debris and particles. Designed with a durable bakelite body and a transparent polycarbonate screw-on cover, it allows quick visual inspection and easy maintenance - without tools. Ideal for small-scale marine air conditioners.



## SEA WATER STRAINER AMP-S-02

SPECIFICATION	VALUE
Connection Size	1/2" BSP (ISO 228/1)
Body Material	Nickel-plated marine bronze
Cover Material	Nickel-plated metal
Filter Basket	AISI 316L stainless steel
Gasket Material	Neoprene
Max Flow Rate	8,180 l/h @ 1 bar
Total Height (H)	108 mm
Cover Diameter (A)	30 mm
Basket Height (L)	104 mm
Inlet Center to Base (H1)	64 mm
Weight	Approx. 1,050-1,100 g
Certification	RINA DIP



Compact in size, uncompromising in reliability – the 1/2" water strainer is the ideal solution for smaller marine air conditioner systems.

Built with a nickel-plated bronze body and a solid metal cover, it ensures long-lasting durability even in harsh marine environments. The internal AISI 316L stainless steel mesh basket provides efficient filtration, while the neoprene gasket ensures a secure, leak-free seal.



## SEA WATER FILTER AMP-S-03

SPECIFICATION	¾" SIZE	1" SIZE
Product Code	1164.¾	1164.1
Connection Type	BSP female thread (ISO 228/1)	BSP female thread (ISO 228/1)
Body Material	Nickel-plated marine bronze	Nickel-plated marine bronze
Cover Material	Transparent polycarbonate	Transparent polycarbonate
Filter Basket	AISI 316L stainless steel	AISI 316L stainless steel
Gasket	Neoprene	Neoprene
Max Flow Rate	14,900 l/h	25,500 l/h
Weight	approx. 2,700–2,800 g	approx. 2,800 g
Total Height (H)	145 mm	145 mm
Cover Diameter (A)	30 mm	30 mm
Basket Height (L)	151 mm	151 mm
Certification	RINA DIP	RINA DIP
Recommended Use	Seawater filtration	Seawater filtration

Compact and high-performance seawater strainers – ideal for marine air conditioning systems, generators, and other onboard applications.

The AMP-S-03 series strainers feature a nickel-plated marine bronze body and a transparent, impact-resistant polycarbonate cover, allowing for quick visual inspection of the filter without dismantling the system.

Inside, a stainless steel AISI 316L mesh basket ensures exceptional durability and corrosion resistance, while the neoprene gasket guarantees a perfect seal.



# PUMP RELAY BOX

## DC-PRB-4 PUMP RELAY BOX

### 4-Station Pump Relay Box for Seamless DC System Integration by MBC Marine!

The 4-Station Pump Relay Box is engineered to control a common seawater pump shared among up to four DC air conditioning units, ensuring efficient and coordinated operation.

Our Pump Relay (PRP) board enables smooth, automatic switching of a shared seawater pump between multiple DC A/C units.

Each unit is equipped with independent, fully isolated pump trigger inputs compatible with 12V or 24V and 48V DC signals, guaranteeing safe and flexible integration.

The pump power input and output are also isolated and suitable for all MBC Marine DC systems. Housed in a plastic enclosure, the relay box allows clean, organized wiring for all control inputs and pump connections - offering a dependable, space-saving solution for modern marine DC air conditioning setups.



## XV1 - 48/24V 15A CONVERTER

XV-1 SPECIFICATION	DETAILS
Input Voltage	48V DC
Output Voltage	24V DC
Max Output Current	15A
Power Rating	Up to 360W
Protection Features	Over-voltage, over-current, short-circuit, over-temperature
Enclosure	Aluminum heatsink with sealed housing, suitable for marine environments
Connections	Screw terminals or fast connectors
Compact Size	Easy to install in tight spaces



## AC-PRB-6 PUMP RELAY BOX 230V

### 6-Station Pump Relay Box for Seamless Control by MBC Marine!

The 6-Station Pump Relay Box is designed to manage a common seawater pump across two or more air conditioning units effortlessly.

Our Pump Relay (PRP) board allows seamless control of a common seawater pump between multiple A/C units.

Each unit features separate, fully isolated pump trigger inputs that accept either 230VAC/50-60Hz, ensuring compatibility and safety.

The pump power source and output are also isolated, capable of handling 230VAC/50-60Hz. Housed in a durable metal enclosure, the relay box ensures easy entry and exit for all control wires, pump power sources, and pump connections, providing a reliable and efficient solution for your marine air conditioning systems.



## MBC SOFT STARTER

### The Ultimate Solution For Optimized Start-Up

The MBC Easy Start allows any air conditioner to operate with a lower voltage power source, eliminating the need for a larger or additional generator. **By reducing the compressor's start current by up to 50%**, it enables smooth, reliable operation even in limited power conditions.

The MBC Soft Starter utilizes a four-stage, self-optimizing start ramp sequence to achieve the lowest possible start-up current, making it the perfect solution for running air conditioners with a generator or inverter, even when utility power is restricted.



#### Weatherproof and flameproof

The powder-coated enclosure ensures durability and maximum safety.



#### CE Certified

Complies with the highest European standards.



#### Available in multiple sizes:

**8 000-24 000 BTU/H**

Adaptable for various applications.





# DISPLAYS

## CLIMATE CONTROL SOLUTIONS



### 4,3" LED COLOUR DISPLAY WITH WI-FI CONNECT AND SMART PHONE APPLICATION

Modern full-colour touch-screen display for complete climate control.

Integrated Wi-Fi module allows wireless control and monitoring from mobile devices.



### 3" LED COLOUR DISPLAY

Compact colour display with clear icons and intuitive operation.

Provides easy temperature setting, mode selection and system status feedback.



### SUB DISPLAY FOR VARIABLE CHILLER UNIT

Secondary control display for chiller system zones. Allows quick access to temperature settings and operating modes. Designed for easy integration with the main control unit.

## MBC Marine control displays offer a simple and intelligent way to manage your onboard climate.

From compact standard displays to advanced Wi-Fi touchscreens, each option is designed to provide precise temperature control, intuitive operation, and seamless integration with our air conditioning systems.

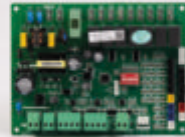
Whether you're controlling a single cabin or a multi-zone chiller network, MBC Marine displays ensure comfort, flexibility and reliability at sea.

# PCB MAIN BOARDS



## MAIN BOARD 12-24-48V FOR SDC UNITS

Control PCB for SDC A/C systems. Manages compressor, fan and pump operation with full protection features.



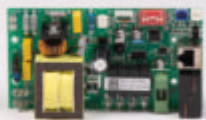
## MAIN BOARD 230V FOR HCFD CHILLER UNITS

Main control board for 230 V chiller units. Provides intelligent compressor and pump control with built-in safety protections.



## MAIN BOARD 230V FOR ESC - SSC - SCP UNITS

High-reliability control board for ESC - SSC and SCP systems. Coordinates fan, compressor and pump operation with safety monitoring.



## MAIN BOARD 230V FOR CFPG AND CFP FAN COIL UNITS

Controller board for all fan coil units. Handles fan speed, valve operation and room temperature control.



## ELECTRICAL BOX FOR 12-24-48V SDC UNITS

Pre-wired electrical box for fast and clean installation. Protects and organizes power and control wiring for DC systems.

# PARTS FOR DC SYSTEMS



## MAIN SWITCH FOR SDC UNITS MAX 40A

Heavy-duty main switch designed for DC air conditioning units. Ensures safe power disconnection and system protection.



## 12V 100AH BLUETOOTH LIFEPO4 LITHIUM DEEP CYCLE BATTERY

Reliable lithium battery for stable power supply. Bluetooth connectivity for real-time monitoring. Long lifespan and excellent energy density.



## 24V 100AH BLUETOOTH LIFEPO4 LITHIUM DEEP CYCLE BATTERY

High-capacity lithium battery with Bluetooth monitoring. Lightweight, long cycle life and maintenance-free design.



## INSULATED CABLE FOR DC UNITS (RED AND BLACK)

High-quality flexible power cable for DC systems. Available in 16 mm<sup>2</sup>, 25 mm<sup>2</sup> and 35 mm<sup>2</sup> sizes. Reliable performance with minimal voltage drop.



## AUTOMATIC FUSE SWITCH 30-40A

Waterproof marine-grade automatic fuse switch. Provides circuit protection with simple manual reset. Mandatory for all DC air conditioning systems.

We offer a wide range of high-quality and reliable accessories for MBC Marine DC marine air conditioning systems, making professional installation easier and enhancing operational efficiency.

All accessories are fully compatible with every MBC Marine DC unit, ensuring stable system performance and maximum onboard comfort.

# FITTINGS AND HOSE CONNECTORS



## MALE AND FEMALE HOSE CONNECTOR

High-quality marine-grade brass connector.



## MALE HOSE CONNECTOR 90°

Brass elbow fitting for tight installation spaces.



## SEA WATER DISCHARGE

Durable through-hull discharge fitting.



## SEA WATER INLET

Through-hull inlet fitting with integrated scoop.



## BALL VALVE

Marine-grade brass ball valve with lever handle.



## STAINLESS STEEL HOSE CLAMP

Marine-grade brass ball valve with lever handle.



## SEA WATER PIPE ARMOFLEX

Flexible, reinforced pipe for seawater circulation.

MBC Marine offers a complete range of marine-grade brass fittings, valves and hose connectors, designed specifically for seawater circulation systems in marine air conditioning applications.

All components are manufactured to ensure reliable performance, durability and corrosion resistance, even in demanding marine environments.

The product line includes inlets, discharges, elbows, T-fittings, hose connectors, ball valves, non-return valves, and manifolds, covering every installation need — from compact leisure boats to large yachts.

Thanks to their precise machining and universal sizing, these fittings ensure secure connections and optimal water flow, simplifying both installation and maintenance.

### Sizing guidelines

Cabin type	up to m3	Cooling capacity BTU/h	Heating capacity BTU/h
Cabin in shade with thermal insulation	18	5.000	3.000
	24	8.000	4.800
	35	10.000	6.000
	42	13.000	7.800
	55	16.000	9.600
	86	18.000	10.800
Cabin in semi-shade with weak insulation	11	5.000	3.000
	15	8.000	4.800
	22	10.000	6.000
	26	13.000	7.800
	37	16.000	9.600
	56	24.000	14.400

### CONVERSION TABLE

BTU/h	3,413	=	1	Watt
Watt	24	=	0,86	Kcal/h
Kw	35	=	1000	Watt
Frig/h	42	=	3,413	Btu/h
Kcal/h	55	=	0,86	Frig/h





# MARINE AIR CONDITIONING SOLUTIONS



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