Marine Chilled Water Systems
INVERTER VARIABLE CAPACITY

STANDARD FEATURES:

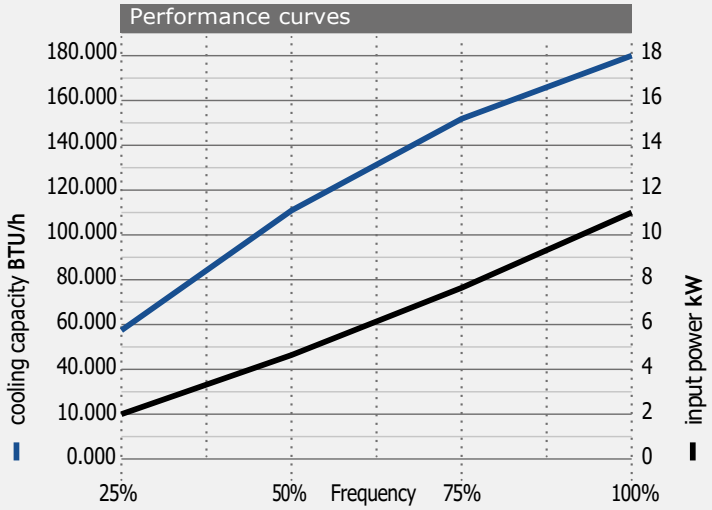
- Very compact and low weight
- Full inverter Reverse cycle chillers in stainless steel housing.
- 50% higher energy efficiency compare to ON/OFF chiller
- No inductive loads at start up, low energy consumption and easy to install
- Integrated automatic fuses with manual reset.
- Eco modus for running on low shore supplies.
- Titanium seawater condenser offering the highest resistance to corrosion.

INVERTER CHILLER TECHNOLOGY

The Chiller system is undoubtedly the preferred choice for on-board air conditioning systems, offering a number of key benefits:

- *Simple installation*
- *Closed and factory tested Refrigerant Gas system*
- *Reduced quantity of Refrigerant Gas*
- *Ease of Maintenance*

We have invested significant resources in the development and optimization of its exclusive BLDC Inverter technology, and has succeeded in producing units that are more and more efficient and that offer increasingly greater performance: discover all the details of the Chiller system.



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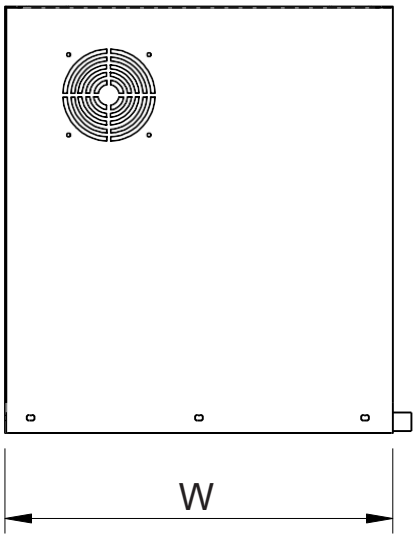
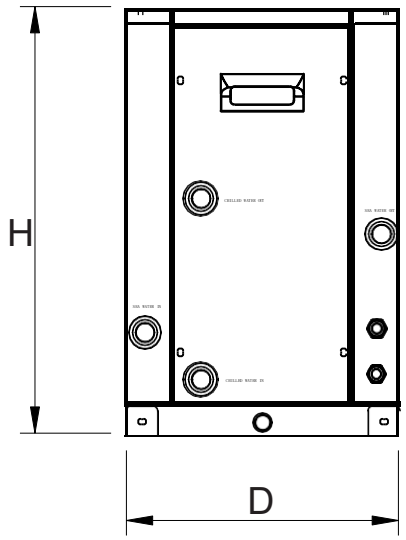
BMCW-VF Series - CHILLER INVERTER VARIABLE CAPACITY

Model No.	BMCW50VF	BMCW70VF
Cooling Capacity (BTU)	12,000 - 50,000	18,500 - 70,000
Heating Capacity (BTU)	18,000 - 60,000	22,500 - 80,000
Voltage (V) **Cycle** (Hz) / **Phase** (Ph)	208 - 240 / 50-60 / 1	
Current AMPS (A) - Cool Mode	3.5A - 10.5A	5.0A - 17.5A
Power Consumption (A) - Cool Mode	0.85 KW - 2.2 KW	1.2 KW - 3.8 KW
Cooling Capacity ECO (BTU)	24,000	36,000
Refrigerant Type	R410A	
Seawater In / Out Connection (in/mm)	3/4 / 19.05	1 / 25.4
Chilled Water In / Out Connection (in/mm)	3/4 / 19.05	1 / 25.4
Seawater Flow (m3/h)	3.0	4.0
Throttling Device	Electronic Expansion Valve	
Net Weight (Kg)	78	88
Depth (D) mm	380	380
Height (H) mm	570	570
Width (W) mm	520	580





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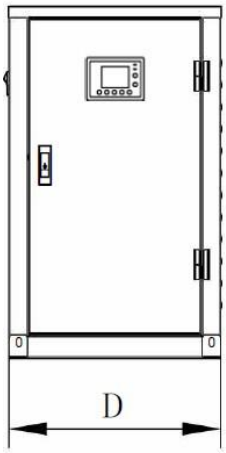
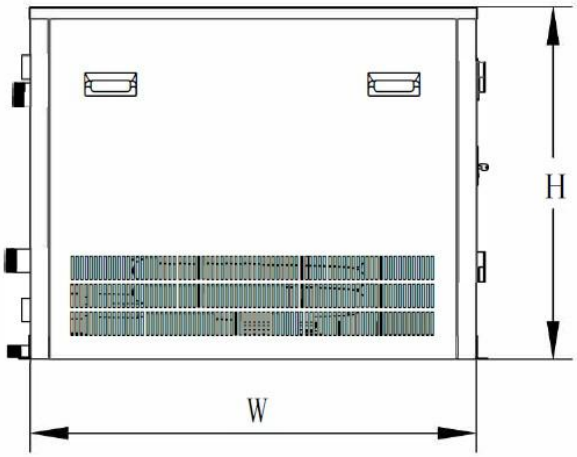
BMCW-VF Series - CHILLER INVERTER VARIABLE CAPACITY

Model No.	BMCW90VF	BMCW150VF	BMCW180VF
Cooling Capacity (BTU)	22,500 - 90,000	50,000 - 150,000	80,000 - 180,000
Heating Capacity (BTU)	30,000 - 100,000	75,000 - 175,000	90,000 - 200,000
Voltage (V) **Cycle** (Hz) / **Phase** (Ph)	400 / 50-60 / 3		
Current AMPS (A) - Cool Mode	6A - 13A	6A - 15A	10A - 23 A
Power Consumption (A) - Cool Mode	2.5 KW - 7 KW	2.5 KW - 9 KW	4.5 KW - 13.5 KW
Cooling Capacity ECO (BTU)	60,000	90,000	108,000
Refrigerant Type	R410A		
Seawater In / Out Connection (in/mm)	1 1/4" / 28	1 1/2" / 32	1 1/2" / 32
Chilled Water In / Out Connection (in/mm)	1 1/2" / 32	1 1/2" / 32	1 1/2" / 32
Seawater Flow (m3/h)	5.0	8.0	10.0
Throttling Device	Electronic Expansion Valve		
Net Weight (Kg)	120	135	150
Depth (D) mm	460	460	460
Height (H) mm	650	650	750
Width (W) mm	800	850	950





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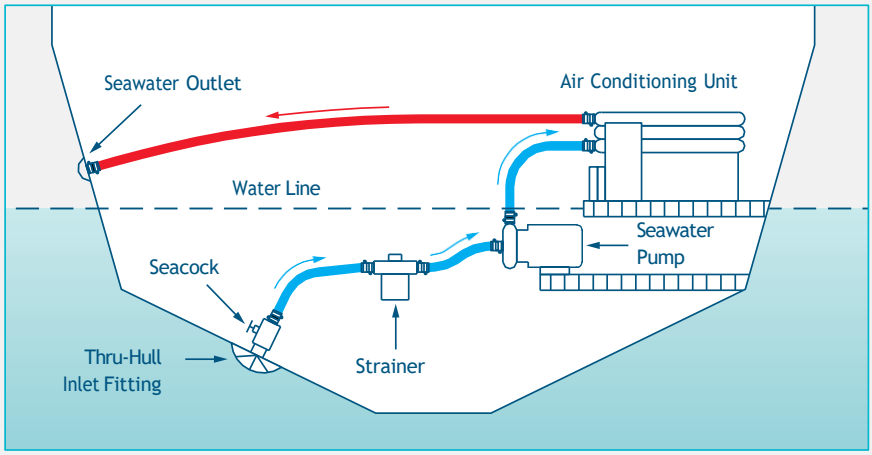
SEA WATER COOLING SYSTEM

The seawater cooling system brings seawater into and through the system then discharges it overboard. It consists of an inlet through-hull fitting, seacock (water valve), strainer, pump, and overboard discharge fitting, all connected by hose or piping.



SEA WATER CIRCULATION COMPONENTS

Seawater Components. Use one pump of adequate capacity for all air conditioning systems on board. The basic rule is 180 gallons (681.4 liters) per hour (3 GPM/11.4 LPM) of water per ton of air conditioning (one ton = 12,000 BTU/hr). If more than one system shares a common pump, you will also need a pump relay and manifold.

The BTU/hr capacity in Table 2 shows recommended seawater flow rates and minimum inlet (through-hull) sizes.

->> Pump Sizing Chart by BTU/hr Capacity

System Capacity (BTU/hr)	Seawater Flow Rate (GPH / m^3/h)	Through-Hull Inlet / Outlet Size (in/mm)
18,000 - 24,000	360 / 1.5	3/8" / 16
36,000 - 48,000	720 / 2.7	3/4" / 19
60,000 - 72,000	1080 / 4.0	1" / 25
90,000 - 180,000	2700 / 10.0	1-1/2" / 37.5
250,000 - 360,000	5400 / 20.0	2" / 50

Sea Water Through Hull Fittings include: water stainer, seacock, water scoop, thru-hull, hose adapter.etc

* Sea Water Pump

* Fresh Water Pump

* Sea Water Through Hull Fittings

MARINE HVAC SOLUTIONS

BREEZE MARINE AIR CONDITIONING CO LTD.

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