

# Variable Chiller air conditioners

24.000-80.000 BTU/h

**DISCOVER THE PINNACLE OF MARINE COMFORT AND EFFICIENCY WITH OUR STATE-OF-THE-ART VARIABLE CAPACITY CHILLER MARINE AIR CONDITIONER.**

Engineered specifically for the conditions of marine environments, our system offers unparalleled performance, energy savings, and precise temperature control to ensure a comfortable and efficient onboard experience.

A variable capacity chiller marine air conditioner is an advanced type of cooling system designed specifically for marine environments, offering flexible and efficient cooling by adjusting its capacity based on the current demand. This capability makes it highly efficient and well-suited for the dynamic conditions found on marine vessels.

## Features

- Variable Capacity Technology: Adjusts cooling output to match the exact needs at any given time, rather than operating at a fixed capacity.
- Advanced Controls: Uses sophisticated control systems to monitor and adjust performance.
- Seawater-Cooled Heat Exchangers: Efficiently dissipates heat using seawater, which is abundant and provides excellent cooling properties.
- Compact and Modular Design: Fits into the confined spaces typical of marine applications and can be scaled according to the vessel's size and cooling requirements.



## Operation

- Variable Speed Compressor: The compressor can adjust its speed to provide the precise amount of cooling required at any time, reducing energy usage and wear.
- Intelligent Controls: Sensors and controls continuously monitor temperature and cooling load, adjusting the system's output accordingly.
- Efficient Heat Exchange: Uses seawater-cooled heat exchangers to efficiently remove heat from the refrigerant, which is particularly effective given the constant availability and cooling properties of seawater.
- Load Adaptation: The system can scale its cooling capacity up or down in response to changing conditions, such as varying passenger numbers, equipment heat output, or external weather conditions.

## Applications

- Luxury Yachts: Provides a high level of comfort and efficiency, ideal for discerning yacht owners and guests.
- Commercial Ships: Ensures efficient cooling for crew and cargo, reducing operational costs.
- Naval Vessels: Offers reliable and efficient temperature control crucial for mission-critical operations.
- Fishing Boats: Maintains stable conditions for crew and fish storage, enhancing both comfort and product quality.



UNIT PARAMETERS		HC24VFD	HC36VFD	HC50VFD	HC64VFD	HC80VFD
Cooling capacity	BTU/hr	24000	36000	50000	64000	80000
Power source		230V/50Hz				
Amp Draw (A)	Cooling	6 A	10 A	13 A	18 A	25 A
	Heating	8 A	12 A	15 A	20 A	28 A
Refrigerant R410A		700gr	950gr	1100gr	1200gr	1400gr
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"
Chilled Water Connection Size	OUT	3/4"	3/4"	1"	1"	1"
Dimension of Unit	Width	300	300	340	340	380
	Height	465	465	488	488	548
	Depth	480	480	578	658	698
Net Weight (kg)		35kg	38kg	52kg	56kg	75kg

#### KONTAKTDATEN:

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