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# **SPECIFICATION SHEET**

## **Clima inverter chiller units**

## CLIMA INVERTER CHILLER UNITS

MAR-IX clima inverter chiller units are designed to have a compact unit available on ships up to approximately 15 meters, that provides cooling, heating and warm water. All refrigeration components, a diesel heater and a heat exchanger are placed in a stainless steel casing, making it possible to achieve all the above functions in a single unit. With the stainless steel casing, the unit will barely produce sound and is protected against tough conditions in an engine room or other technical space.

The MAR-IX CIV series chiller units are equipped with inverter compressor technology which means that the chiller does not switch the compressor on and off, but varies in speed to control the cooling capacity. By using this inverter compressor technology, current peaks belong to the past and the electric system on board the ship will not be disrupted. It is standard that CIV units are suitable for the most common power supplies, and will function on 50 as well as 60Hz.

All CIV systems are equipped with a heat exchanger which can be connected to the generator or main engine. In this way the heat from the engine can be reused. It is even possible to heat up the potable water system with the diesel heater when the air conditioning function is active.

All units are equipped with a seawater-cooled condenser made of copper/nickel. Optionally available is a high efficiency condenser that can be connected directly to a box cooler.

The CIV series chiller units can be connected to all MAR-IX fan coil units and controlled by our analog electronics.

See page 53 for an example composition of a complete chiller system with a CIV chiller unit.

## TECHNICAL FEATURES

- Equipped with inverter compressor technology
- Environmental friendly refrigerant
- Mainly manufactured from stainless steel
- Seawater resistant condenser
- Seawater resistant water pump
- Equipped with vibration absorbers
- Pressure and temperature protection
- Low current
- Quiet
- Compact unit
- No current peak at start-up
- Energy saving

## STANDARD SUPPLY

- The chiller unit
- User manual
- Spare parts list
- Declaration of Conformity
- Test certificate

### *Optional:*

- Seawater kit and circulation pump
- Spare parts kit

**Equipped with a unique inverter compressor technology and internal fuel heater!**

## CLIMA INVERTER CHILLER UNITS

	Voltage	Cool capacity	Refrigerant	Number of compressors	Current AC (compressor)	Heat capacity	Current DC (compressor)	Dimensions LxWxH (mm)	Weight (kg)
<b>CIV5</b>	230V 50/60Hz-AC and 12-24VDC	1-5kW (3.400-17.000Btu)	R407C	1	1,5-5A	5kW	10-37W	508x371x414	52
<b>CIV8</b>	230V 50/60Hz-AC and 12-24VDC	2-8kW (6.800-27.300Btu)	R410A	1	2-9A	5kW	10-37W	508x371x474	61
<b>CIV10</b>	230V 50/60Hz-AC and 12-24VDC	2-10kW (6.800-34.100Btu)	R410A	1	2-10A	10kW	36-125W	408x606x435	68
<b>CIV15</b>	230V 50/60Hz-AC and 12-24VDC	3-15kW (10.200-51.200Btu)	R410A	1	3-15A	10kW	36-125W	578x517x515	88



CIV15



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