

Breman Shipping Installation ^{b.v.} Breman Ship Engineering ^{b.v.}



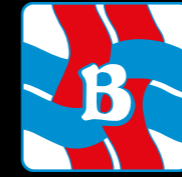
Breman Shipping Installation - Breman Ship Engineering

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Heating

Heating plays an important role aboard any vessel. A comfortable temperature, liquid crude oil or simply preventing ice are some examples where heating is crucial. Breman Ship Engineering supplies a wide range of quality heating equipment, to ensure your heating requirement is met at sea.

For a comfortable environment, we can engineer and deliver complete central heating systems. In these installations, we use quality boilers in a range of 10kW to 1250kW. In these boilers, we place burners from 10 to 1100 kW. These boiler/burner combinations are used for tank heating systems as well, and double as a heat recovery system when connected to a sanitary boiler. In addition to central heating systems, we deliver fan heaters (3kW to 21kW), finned tube heaters (0,3kW to 2,5kW) and oil filled radiators (0,75kW to 8kW).

Ventilation

A proper ventilation is crucial for any vessel. From crew- and passenger cabins to technical spaces, from engine rooms to cargo holds: all need a minimum air changes per hour. For this reason, Breman calculates the air change demand per space, according to customer wish and international regulations.

To cope with these wishes, we supply a wide range of fans. For crew-, passenger- and technical spaces, we supply duct fans with straight flow for rectangular ducts. They have forward curved blades and are very suitable for high pressure at low noise levels. Our circular duct fans can handle long ducts with continuous high pressure, at low noise levels. The speed of the blower tube can be easily controlled by voltage or variable frequency drives. These fans are available in 7 connection diameters: 100, 125, 150, 160, 200, 250 and 315 mm. In addition to these fans, we supply a compact duct fan, with a height of just 2 cm more than

the duct diameter, available in 100, 125, 160 and 200 mm. For larger technical spaces, we supply centrifugal fans in the capacity range from 1.000 to 70.000 m³/hr. For engine rooms and cargo holds we supply axial fans in a range from 1.000 to 150.000 m³/h, with optional frequency drives. These can be mounted in ducts varying from \varnothing 200 until \varnothing 1500, executed in compliance with IPSS, EEX and Marine standards. To protect your equipment, we supply high quality mist eliminators, weather louvres, mushrooms and vent pipes. These are custom made in any desired size, executed in stainless steel 316, sea-water resistant aluminium and hot dipped galvanized steel.

Airconditioning

We supply a broad selection of airconditioning equipment. Split units are available in a range of 2.0 kW to 16 kW. Multisplit units are available in capacities up to 200 kW. We use a small selection of quality brands; Daikin, Carrier and LG.

We supply chillers with a capacity range from 14 kW up to 1,5 mW. In addition to the use of standard chillers from different manufacturers, we assemble chillers incompany. We only use the highest quality parts in our chillers, and exclusively Bitzer compressors. In contrast to standard fabricated chillers, we can produce chillers suitable for 440 Volts and 60 Hertz. Fancoil units and air treatment units can be supplied in any capacity needed. We use R410a, R407a, R407c, R404a and R134a refrigerants.

Sanitary Installations

Good sanitary installations contribute highly to hygiene and comfort aboard ships. Whether it is renovation or newbuilding, Breman Ship Engineering has the knowledge to fulfil your wishes from engineering to aftercare. We are aware of regulations, novelties and various applications. We provide the following sanitary systems and equipment:

Sewage

Breman supplies grey and black water sewage systems aboard ships. They consist of drains including all fittings, drainage taps, shower drains, seals and fastenings. We also deliver sewage treatment plants and grease traps. Drains to be delivered with OD 40, 50, 75, 110, 125, 160 and 200 mm in standard lengths from 0,15 to 6 metres. We use stainless steel (AISI 304 and 316), galvanised steel and (durable) plastic pipes, approved by any class institute.

Potable water installations

Our potable water installations include pipes, all fittings, taps, hydrophores, UV-systems, hot water circulation pumps, hot water boilers (electric or water heated) and even fresh water makers. All installations are engineered with good care to avoid the contamination of (legionella) bacteria. Pipes to be delivered in the following materials: copper, galvanised steel, stainless steel and plastics.

Hydrophores

Breman Ship Engineering offers a vast range of water pumps to meet any need. The pumps we deliver are produced with state-of-the-art materials that improve their ability to resist internal and external stresses, and guarantee their high performance, quality and durability over the long term, thereby limiting their environmental impact. We offer pumps in ranges from 0-200 mWc, 240-440 V and 50/60 Hz.

Hot water boilers and buffer vessels

To heat up the potable water Breman Ship Engineering delivers a wide range of hot water boilers and buffer vessels. Boilers heated by electricity can be delivered in a range of 5 to 1000 litres. Off course there is also a possibility to heat up the water by means of renewed or "green" energy.

Refrigeration

In order to preserve fresh products at sea, refrigeration is crucial. Breman Ship Engineering supplies cooling- and freezing stores up to 50 m³ in size, shipped as all including construction kits. All cooling- and freezing stores are equipped with an incompany build refrigerator. We exclusively use Bitzer compressors and Bitzer condensers. These are high quality and easy serviceable components. The walls of the stores are made of insulated 'sandwich' panels, 80 to 120 mm thick. The refrigerators we build are available in capacities from 4 kW to 30 kW.

The cooling stores can reach temperatures of +2°C with an environmental temperature of +45°C. Our freezing stores can reach a temperature of -21°C with an environmental temperature of +45°C.

Engineering

Breman Ship Engineering serves a global market with self-contained HVAC and sanitary equipment. Our modern engineering department can supply a complete system design, for which we produce and ship an all including installation package. Our design goes beyond traditional service. In order to select the right components, we calculate for heat loss, cooling load, piping diameters, insulation and pump capacity, where others use standard components. We use specialised software to design and calculate our systems. Off course, 3D is our standard.

