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B COOL develops groundbreaking CO₂ refrigeration system for ships

B COOL, a Danish company that specialises in refrigeration and HVAC systems, has produced a cooling system based on CO₂. Marking the 20th anniversary of B COOL the innovative, patented system supports the wish of the shipping industry for a greener future.

“We are proud to mark our 20th anniversary by presenting our revolutionary CO₂-based refrigeration system, designed for freighters, ferries and other vessels. The new system replaces existing systems that run on harmful hydrofluorocarbon gases. It reduces vessels’ consumption of black fuels, effectively converting consumption to electricity, because CO₂ is an efficient coolant. This system is indeed the future for greener shipping,” says B COOL’s Managing Director Ejner Brodersen.

B COOL have 20 years of experience with cooling and freezing units and HVAC systems on most types of vessels and other maritime installations. The new B COOL CO₂ system was developed at the company's test facilities in Aarhus, Denmark aiming to assist the maritime sector towards a green transition. The system equips shipping lines and the individual vessel for the future.

Maritime future

“Our CO₂ system is a climate-friendly and durable solution. There will be no conversion or retrofit costs when new, more stringent regulations are introduced for the use of coolants. The new system consumes less energy – and therefore less oil – than a conventional system, which, for climate-related and financial reasons, makes it the right choice, as it has a positive effect on the shipping line’s green accounts,” explains Ejner Brodersen.

CO₂ is thoroughly tested as a climate-friendly refrigerant in systems onshore. With the new system B COOL sets of on a green wave, and the first shipping companies are ready to install the CO₂-based system.

“The feedback from the shipping companies is extremely positive. Our CO₂-based system is climate-friendly, and it is built for those who insist on move forward making green choices. We believe that the maritime sector is ready to make that choice,” says Ejner Brodersen.

FACTS ABOUT B COOL A/S

The Danish company B COOL was founded in February 2002 by Palle Bendix, who still owns the company. Today the 14 employees at B COOL service, maintain, and develop refrigeration systems, cooling equipment and PLC/PC control systems for use aboard ships and other maritime installations. B COOL services vessels and works with shipping lines across the globe, supplies them with spare parts and refurbishes electrical control system components. Marking the 20th anniversary of the company B COOL has developed tomorrow’s refrigeration system for the maritime sector. Read more here: www.bcool.as

FACTS ABOUT THE CO₂ SYSTEM

CO₂ is a natural, environmentally friendly refrigerant, which replaces harmful HFC refrigerants. B COOL CO₂ is a powerful unit that yields up to 50 % more than hydrofluorocarbon refrigerant (HFC) systems. The unit also boasts much lower energy consumption than conventional systems.

B COOL subjected B COOL CO₂ to load simulation and performance testing at cooling water temperatures ranging from + 4°C to + 44°C for a period of eight months. The simulation included the impact of a variety of space load factors corresponding to those that occur under normal operating conditions.

Contact details

For further information, please contact Managing Director **Ejner Brodersen**, B COOL A/S. Call him on +45 23 71 19 21 or email ebr@bcool.as. To learn more about us, visit www.bcool.as



B COOL has produced a groundbreaking cooling system for ships and vessel based on CO₂.

Photo: B COOL A/S



The Danish company B COOL specialises in refrigeration and HVAC systems onboard ships and other maritime installations. They operate all over the world.

Photo: B COOL A/S



B COOL has developed an innovative, patented cooling system based on CO₂.

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