

Reducing temperature. Improving performance!

# Bowman Charge Air Coolers

For turbocharged marine and stationary land based engines

Charge air coolers cool the compressed combustion air from the turbocharger. By reducing the temperature, the incoming air is much denser, enabling increased air mass to be supplied to the engine. The result is better combustion efficiency providing improved engine performance, plus reduced fuel consumption and emissions.

Bowman offer a comprehensive range of charge air coolers, which are suitable for marine and land based stationary engines up to 800kW. Based on Bowman's renowned 'shell and tube' design, these liquid cooled units enable temperatures to be precisely controlled.

Bowman charge air coolers are renowned for their quality, thermal transfer efficiency and long life durability.

Applications include marine propulsion, CHP power generation, automotive engine testing and fire pumps used in emergency fire protection systems.

For applications requiring higher flow rates for the cooling medium, single and two pass versions are available in a choice of cast iron or Naval brass end covers.

Available for fast delivery, Bowman charge air coolers are also supported with a comprehensive range of replacement parts.



## Marine and land based versions

Whether the cooling medium is salt water, fresh water or mineral rich/contaminated water, Bowman has a range of charge air coolers to suit virtually any marine or land based stationary engine application.

## Outstanding reliability

Designed and built to the highest standards, Bowman units provide outstanding levels of operational reliability and durability.

## High efficiency thermal transfer

Bowman charge air coolers deliver extremely high levels of thermal transfer efficiency, due to the innovative design of the tube stack and baffle plates. To ensure maximum heat transfer performance, the units must always be installed with the air and water in a counter flow arrangement. See page 7 for more details.

## Simple to maintain

The easily removable tubestack and end covers makes routine cleaning and maintenance simple and straightforward.

