

Delivering the optimum cooling solutions for hydraulic **Thruster and stabiliser control systems!**

Bowman has been synonymous with hydraulic cooling for over 90 years. Renowned for providing highly efficient, reliable heat transfer solutions for the marine industry, Bowman heat exchangers are already proven for cooling marine engines and transmissions, plus hydraulic deck equipment across a wide range of applications and operational duties.

Now, Bowman cooling technology is at the heart of the latest hydraulic control equipment for thruster propulsion and vessel roll reduction systems. Increasingly specified for installation within the control systems power pack, Bowman hydraulic coolers are used to keep oil temperature within the required operating parameters, ensuring reliable control and operation of bow and stern thrusters, as well as gyro and fin stabilisers.

All Bowman hydraulic oil coolers are produced in the UK at our dedicated manufacturing centre and are ISO9001:2008 accredited. Most models are available from stock and are fully supported with technical and application advice, a comprehensive replacement parts service and a network of stockists worldwide.

Here are some of the features that have made Bowman hydraulic oil coolers the preferred brand for marine installations around the world:

Fully floating tube stack

Bowman shell and tube oil coolers feature a precision engineered, fully floating tubestack, which minimises thermal stresses, provides efficient thermal transfer and low pressure drop.

Long operational life

Bowman oil coolers are renowned for their high quality and operational durability, even in the harshest operating environments.

SAE flanges

SAE hydraulic oil flange connections are available on larger models.

Simple to maintain

The tubestack and end covers are easily removable making cleaning and routine maintenance procedures simple and straightforward.

Rapid delivery

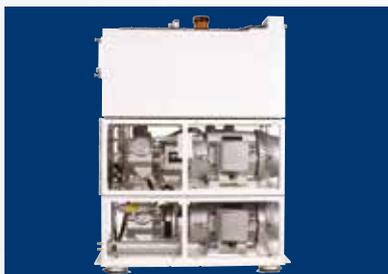
Most models are available ex-stock for rapid delivery worldwide.



BOWMAN®

A World Leader in Heat Exchanger Technology

Performance, reliability and longevity. Marine hydraulic systems manufacturers trust Bowman oil coolers to deliver!



Stabilisers and roll reduction systems

A pioneer in the development of advanced marine stabiliser technology and vessel roll reduction solutions, this leading USA manufacturer uses Bowman oil coolers in their hydraulic power packs, to ensure the fluid power required to articulate the immense forces on stabiliser fins, is always kept at the optimum temperature.



Hydraulic Propulsion Drive System

Designed to combine extended service life with minimal running costs, this hydraulic propulsion system replaces conventional marine gearboxes to provide smooth, quiet operation for inland commercial charter boat applications. Extensively proven over 1,000's of commercial hours use, Bowman's oil cooling technology is at the heart of this system.



Steering and deck equipment

One of the UK's leading suppliers of hydraulic products and systems in the marine industry, with a particular expertise in the offshore workboat sector, uses Bowman hydraulic oil coolers for their steering and deck equipment circuits because they are fully marinised and offer a range of options to suit differing operational conditions.

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Bowman also offer cooling solutions for other marine applications, including:

Engine Cooling

Bowman header tank heat exchangers are extensively proven, with over 50 years of experience cooling engines in the most demanding applications.

Unique design

All Bowman Header Tank heat exchangers feature a unique 'quiet zone' design with a special de-aeration feature and pressurised filler cap.

Reliable operation

The large reservoir area above the tube stack eliminates the problem of air pockets or air locks getting into the coolant stream, improving operational reliability.

Choice of end covers

A choice of end cover materials is also available to suit applications where either salt water, fresh water, or 'grey' water is used as the cooling medium.

Transmission Cooling

Bowman Oil Coolers provide the vital cooling required to enable transmission systems to operate reliably in emergency conditions.

Wide range

There are over 40 models in the standard range providing oil flows ranging from 80 l/min to 1600 l/min

High temperature capability

Within the standard range are oil coolers capable of handling oil temperatures up to 200°C

Fire resistant fluids

Whilst standard seals are in nitrile, alternative materials, compatible with fire resistant fluids are also available

Charge Air Cooling

Bowman Charge Air Coolers help ensure the engine operates efficiently by cooling incoming air from the turbo charger.

Improved fuel efficiency

Enables the engine to operate for longer with the amount of fuel available in the pump set

Enhanced engine performance

Pre-cooled combustion air ensures the engine operates more efficiently, even in emergency conditions

Wide range

Our standard charge air cooler range is suitable for engines up to 800kW.

Fuel Cooling

Efficient operation

Ensures heat build-up is dissipated efficiently.

Quality construction

Neat, clean construction, made to Bowman's renowned high standards.

Compact design

Can be easily installed, even where space is at a premium.



Technical product literature is available on request for all Bowman Heat Exchangers and Oil Coolers, or alternatively they can be downloaded by visiting www.ejbowman.co.uk

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