

# Swimming Pool Heat Exchangers

BSP/PN6/10/16 Connections

Heat Transfer Technology from Bowman



**BOWMAN**<sup>®</sup>

A World Leader in Heat Exchanger Technology

# Bowman Dominates

## Swimming Pool Heat Exchangers

For boilers, solar panels and heat pumps

### The ultimate heat transfer performance for pools and spas

When it comes to heat transfer solutions for your pool, Bowman delivers nothing less than optimum performance. Literally tens of thousands of our units are operating efficiently and reliably around the world, from spas and hot tubs to Olympic pools, in both commercial and domestic applications.

Whether your pool uses conventional heating or renewable energy, the unique design and technology of Bowman heat exchangers will help you achieve faster heat-up times while reducing your energy consumption, costs and CO<sub>2</sub> emissions.



### Just some of the benefits of choosing a Bowman heat exchanger for your pool

#### Energy saving

With more heat transfer tubes than most competitor products, Bowman units heat pools up to three times faster, reducing energy costs and saving money.

#### Easy installation

Our popular EC and FC ranges feature composite end covers and solvent weld connectors for installation directly into pool pipework. Most models also feature an integral 7mm thermostat pocket.

#### NEW Universal fit end covers

All EC models are now supplied with our NEW 'Universal Fit' end covers, which makes installation even easier – see page 11 for more information.

#### Simple to maintain

An easily removable tubestack and end covers makes cleaning and maintenance procedures very simple and straightforward.



# in the Pool



## **Outstanding reliability**

With a choice of titanium, stainless steel or cupro-nickel tubestacks, there's a Bowman heat exchanger to suit any type of pool water. Designed and built to the highest quality standards, Bowman units provide outstanding levels of operational reliability and durability.

## **Titanium tube stacks**

Titanium is the ultimate 'fit & forget' material for swimming pool heat exchangers. It is capable of withstanding attack from all known chemicals and is suitable for use with any type of pool water. Bowman now offer titanium tube stacks, with a 10 year guarantee, for every model in the range. See page 11 for more information.

## **Solar and renewable energy**

Bowman also offer a range of heat exchangers for solar and renewable energy, for swimming pool owners wishing to reduce energy costs and CO<sub>2</sub> emissions. These units are specially designed to work with the lower temperature water from solar panels or ground source heat pumps and need less energy to heat pools to the required temperature.



## Installation and Maintenance

All Bowman swimming pool heat exchangers must be installed in accordance with the 'Installation, Operation & Maintenance Guide' which can be downloaded from the Bowman website - [www.ejbowman.co.uk](http://www.ejbowman.co.uk)

**Pool Water Flow** - The maximum pool water flow rates detailed in the ratings charts must not be exceeded.

**Operating Temperature** - Heating water must not exceed 110°C.

**Operating Pressure** - The maximum working pressure on both sides is 6 bar (87 psi).

**Mounting** - The heat exchanger can be mounted vertically or horizontally as per the diagram below.

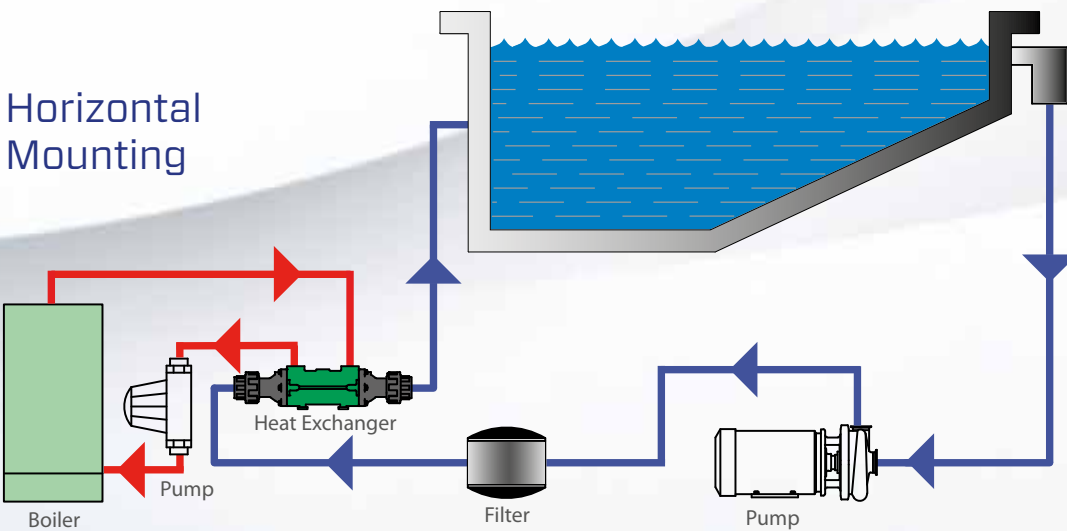
**Dosing** - If an automatic dosing system is added, it must be installed after the heat exchanger on the return to the pool.

## NEW 'Universal Fit' end covers for EC units

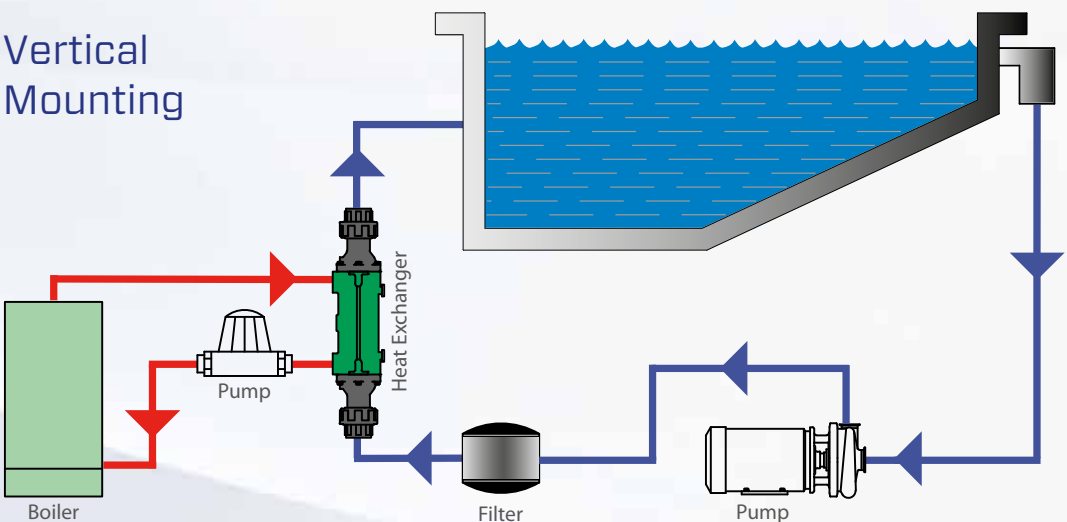
All EC units are now supplied with the new 'Universal Fit' composite end covers, which are specially designed for use with either 1.5" nominal pipe size (48mm O/D) or metric 50mm O/D pool pipework. A new 'socket union' component enables either diameter to be accommodated, making installation even easier. For more information, contact our technical sales team and ask for the product bulletin.



## Horizontal Mounting



## Vertical Mounting



## Titanium tube stacks



Titanium is the perfect material for swimming pool heat exchangers. It can be used with any type of pool water- including saline and with salt water chlorinators - resisting attack from aggressive chemicals indefinitely.

Titanium also eliminates the possibility of 'galvanic reaction' between two dissimilar materials, a major cause of tubestack erosion which can lead to premature failure of the heat exchanger in certain conditions.

Titanium heat exchangers offer even greater heat transfer efficiency, due to their ability to operate at higher flow rates than other materials. In some installations, this allows a smaller sized unit to be used, providing a useful cost saving.

**GUARANTEED**  
**10**  
**YEARS**

Bowman titanium heat exchangers have a full 10 year guarantee on all titanium material in contact with pool water.

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# A world of applications

Wherever you can install a swimming pool, you can enjoy the high performance and energy efficiency of a Bowman heat exchanger. We've been involved in an incredibly diverse range of projects around the world – just take a look at these examples.



**In Russia** - Bowman heat exchangers are used in the pool heating system in the Russian Spa Resort of Sochi, the site of the Winter Olympics 2014.



Bowman units are at the heart of a new cogeneration system at Leichhardt Park and Aquatic Centre (LPAC) in New South Wales, **Australia**, where they're helping to improve the centre's energy efficiency and reduce annual energy costs and greenhouse gas emissions.



The KP Club resort, Yorkshire, **UK**, is using Bowman products in the renewable heating system for the hot tubs in its luxury lodges. By installing a biomass boiler and heat exchangers instead of conventional electric heating, the club is saving thousands of pounds a year on its energy bills.



The famous outdoor pool complex at **Moree Hot Artesian Spa in the Australian Outback** relies on Bowman titanium heat exchangers to meet the demands of the unique artesian water supply and massive fluctuation in outside air temperatures.



Bowman is now established as the 'leading brand' for swimming pool heat exchangers. With tens of thousands of units operating reliably and efficiently throughout the world, you can have complete confidence when you specify Bowman heat exchangers for your pool.

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