

PRODUCT PROFILE

GL140-3708-2

Swimming Pool Heat Exchanger

Introduction

The Bowman GL140-3708-2 is an efficient shell and tube heat exchanger which is suitable for heating swimming pools up to 478 m³ via a boiler heat source. The cast end covers are finished in 'C' coat, an advanced technology coating, which is highly corrosion resistant for durability and the unit is available with either a titanium or cupro-nickel tube core.

Typical Heat Transfer

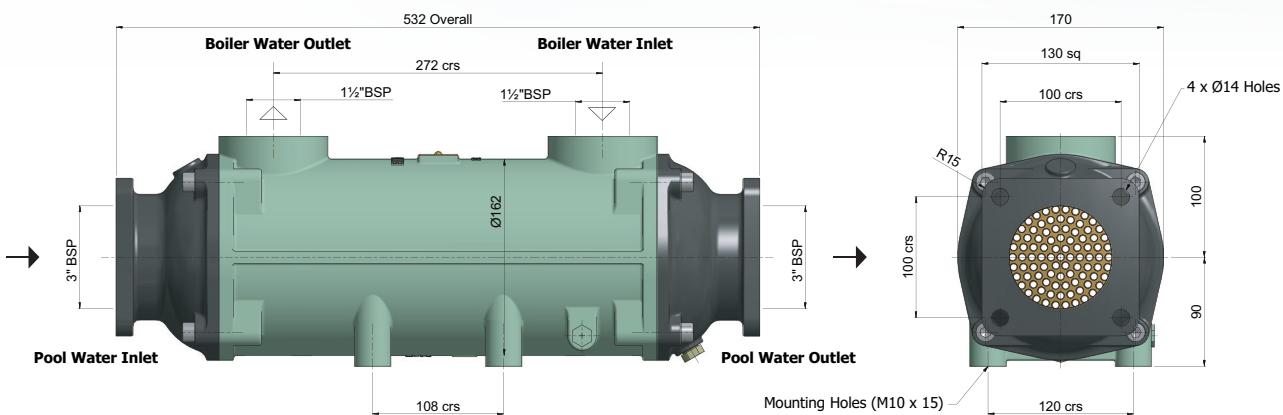
Boiler heating – 300kW



Product Benefits

Proven – heats pools fast, reducing energy costs
Easy to install – 3" BSP threaded end covers or 4 x Ø14 holes flange
Durability – salt water and mineral rich fresh water compatible
Simple to maintain – easy disassembly for routine maintenance
Titanium models – full 10 year warranty on titanium materials

Specification



All dimensions in mm (except threaded connectors). Flanges to BS EN 1092/1.

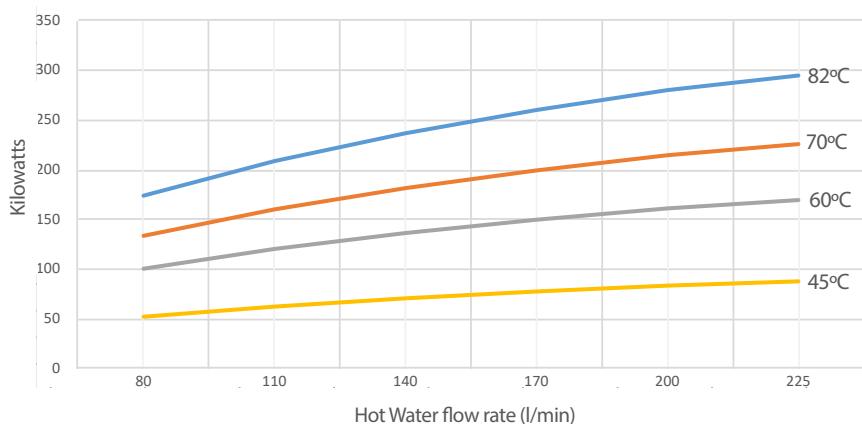
Type	Tube Material	Typical Pool Capacity		Maximum Pool Water Flow		Maximum Hot Water Temp		Max. Operating Pressure Pool Water		Max. Operating Pressure Hot Water		Weight
		m ³	gal	m ³ /h	l/min	°C	°F	bar	psi	bar	psi	
GL140-3708-2C	Cupronickel	455	100,000	50.4	840	110	230	6	87	6	87	30
GL140-3708-2T	Titanium	478	105,000	54.0	900	110	230	6	87	6	87	27

Water Flow

As the graphs and table below illustrate, providing the right water flow volume is vital to the performance of the heat exchanger. If the flow rate of either the hot water supply, or the pool water circuit is too low, the heat exchanger will not perform at its designed efficiency and will be unable to transfer all the available heat energy in to the pool water.

For more information please visit; <https://ej-bowman.com/knowledge-centre/why-doesn-t-my-pool-heat-up-faster/>

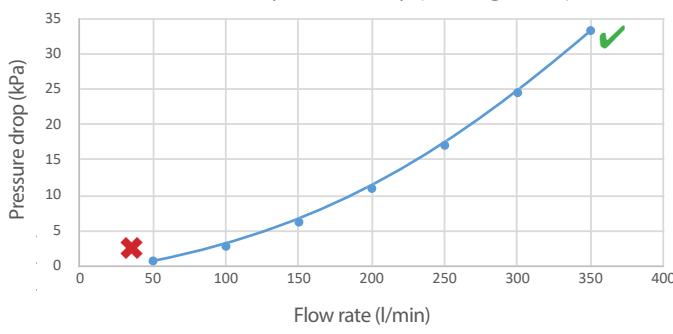
Heat Transfer



kW Heat Transfer - GL140-3708-2
Pool water flow 840 l/min at 28°C

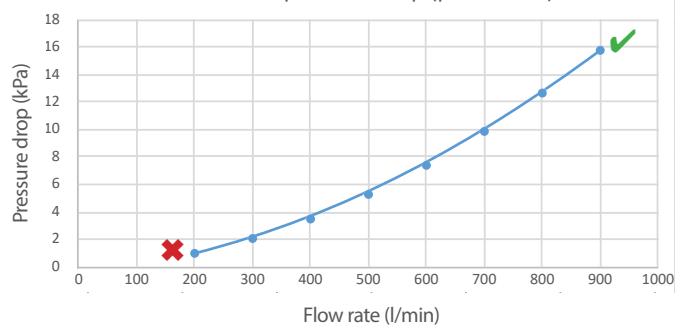
Hot Water	Temperature & Heat Transfer			
	82°C	70°C	60°C	45°C
Flow rate l/min	kW	kW	kW	kW
80	174	134	101	52
110	209	160	120	62
140	237	182	136	71
170	260	199	150	78
200	280	215	161	84
225	295	226	170	88

Pressure Drop Hot Water (Shell Side)



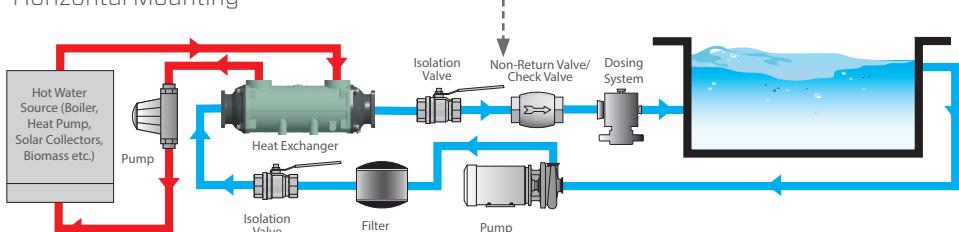
✓ Optimum heat transfer performance ✗ Reduced heat transfer performance

Pressure Drop Pool Water (Tube Side)

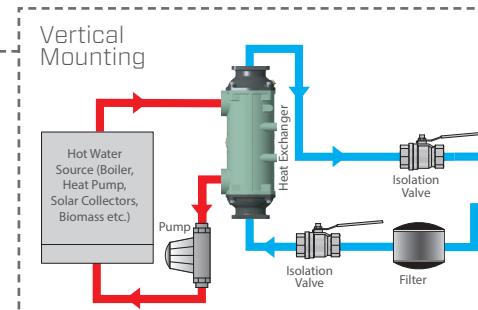


Installation

Horizontal Mounting



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



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