PRODUCT PROFILE

GL140-5108-2 Swimming Pool Heat Exchanger

Introduction

The Bowman GL140-5108-2 is an efficient shell and tube heat exchanger which is suitable for heating swimming pools up to 16,800 ft³ 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.

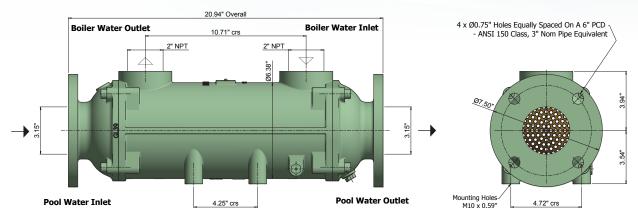
Typical Heat Transfer

Boiler heating - 1,000,000 Btu/h

Product Benefits

Proven – heats pools fast, reducing energy costs Easy to install – 3.15" NPT threaded end covers or 4 x Ø0.75" 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 inches

Туре	Tube Material		al Pool acity	Maximum Pool Water Flow	Maximum Hot Water Temp	Max. Operating Pressure Pool Water	Max. Operating Pressure Hot Water	Weight
		ft³	gal	USGPM	۰F	psi	psi	lb
GL140-5108-2C	Cupro-nickel	16,000	120,000	54.5	230	87	87	66
GL140-5108-2T	Titanium	16,800	126,000	59.4	230	87	87	60



Water Flow

200000

0

21.1

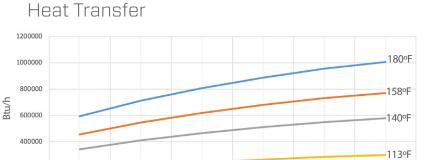
29.1

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/

52.8

59.4



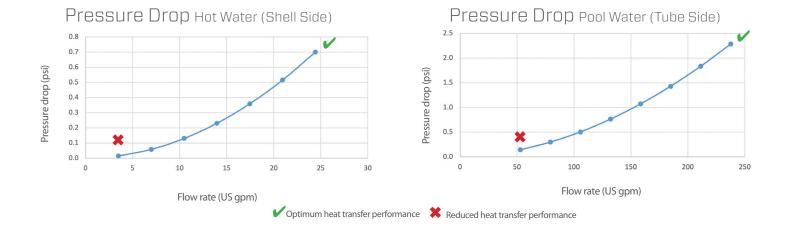
Btu/h Heat Transfer - GL140-5108-2 Pool water flow 222 US gpm at 82°F

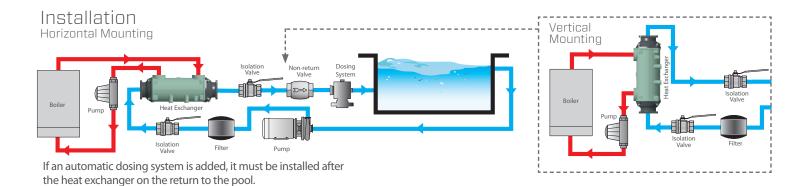
Hot Water	Tei	Temperature & Heat Transfer					
Flow rate	180°F	158°F	140°F	113°F			
(US GPM)	Btu/h	Btu/h	Btu/h	Btu/h			
21.1	593700	455900	342900	178100			
29.1	712500	546600	410800	212900			
37.0	808000	619600	465400	241200			
44.9	887800	680400	511100	264800			
52.8	956100	732600	550000	284900			
59.4	1006200	770800	578700	299600			

Hot Water flow rate (US gpm)

44.9

37 N





EJ Bowman (Birmingham) Ltd

Chester Street, Birmingham B6 4AP, UK Tel: +44 (0) 121 359 5401 Fax: +44 (0) 121 359 7495 Email: sales@ej-bowman.com www.ej-bowman.com



