PRODUCT PROFILE

FG160-5107-5 Swimming Pool Heat Exchanger

Introduction

The Bowman FG160-5107-5 is an efficient shell and tube swimming pool heat exchanger which is suitable for use with either boiler heated hot water, or renewable energy heating systems, such as heat pumps or solar collectors. The cast end covers are finished in 'C' coat, an advanced technology coating, which is highly corrosion resistant and the unit is available with either a titanium, cupro-nickel or stainless steel tube core.

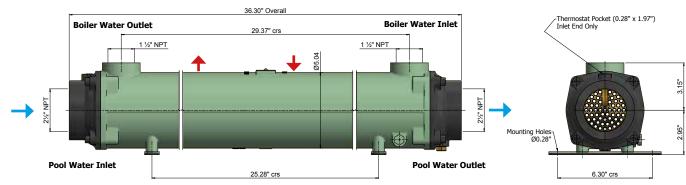
Typical Heat Transfer

Boiler heating - 1,200,000 Btu/h Renewable energy - 512,000 Btu/h

Product Benefits

Proven - heats pools fast, reducing energy costs Easy to install – 21/2" NPT threaded end covers with thermostat pocket **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
FG160-5107-5S*	Stainless Steel	11,000	82,000	180.0	230	87	87	64
FG160-5107-5T	Titanium	11,000	82,000	180.0	230	87	87	55

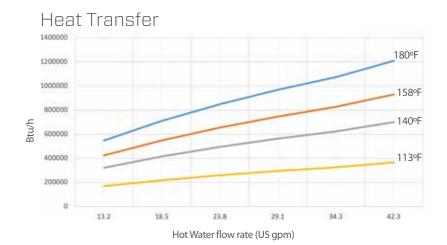
^{*}Not suitable for use on pools fitted with salt water chlorinators or salt water pools.



Water Flow

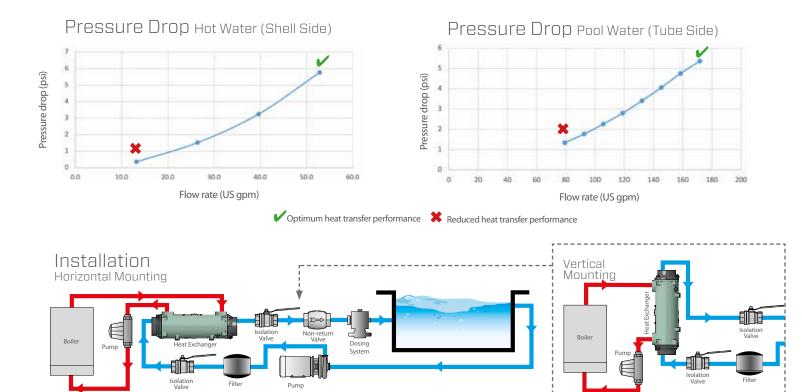
As the graphs and table below illustrate, providing the right water flow volume is vital to the performance of the heat exchanger. If the flow rate of either the hot water supply, or the pool water circuit is too low, the heat exchanger will not perform at its designed efficiency and will be unable to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



Btu/h Heat Transfer - FG160-5107-5 Pool water flow 180 US gpm at 82°F

Hot Water	Temperature & Heat Transfer							
Flow rate	180°F	158°F	140°F	113°F				
(US GPM)	Btu/h	Btu/h	Btu/h	Btu/h				
13.2	548300	424800	322100	169600				
18.5	710700	549400	415600	218000				
23.8	849300	655100	495100	259300				
29.1	968700	746600	563700	294800				
34.3	1073500	826800	623700	325500				
42.3	1208900	929800	700900	365400				



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the heat exchanger on the return to the pool.

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If an automatic dosing system is added, it must be installed after



