PRODUCT PROFILE

GK190-5117-3 Swimming Pool Heat Exchanger

Introduction

The Bowman GK190-5117-3 is an efficient shell and tube heat exchanger which is suitable for heating larger sized swimming pools up to 750 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.

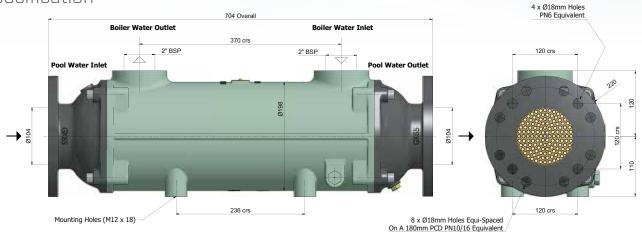
Typical Heat Transfer

Boiler heating – 600kW

Product Benefits

Proven – heats pools fast, reducing energy costs Performance – designed for larger commercial and sports pools **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.

Туре	Tube Material	Typical Pool Capacity		Maximum Pool Water Flow		Maximum Hot Water Temp		Max. Operating Pressure Pool Water		Max. Operating Pressure Hot Water		Weight
		m³	gal	m³/h	l/min	۰C	۰F	bar	psi	bar	psi	kg
GK190-5117-3C	Cupronickel	660	145,000	75.0	1,250	110	230	6	87	6	87	57
GK190-5117-3T	Titanium	750	165,000	96.0	1,600	110	230	6	87	6	87	51

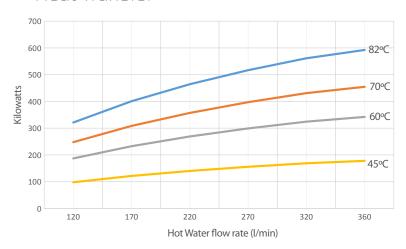


Water Flow

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/

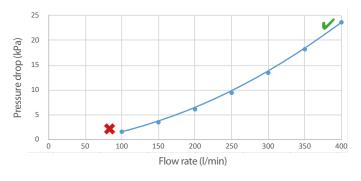
Heat Transfer



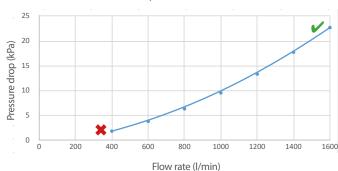
kW Heat Transfer - GK190-5117-3 Pool water flow 1250 l/min at 28°C

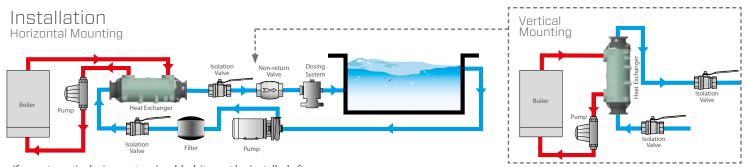
Hot Water	Temperature & Heat Transfer								
Flow rate	82°C	70°C	60°C	45°C					
l/min	kW	kW	kW	kW					
120	321	248	187	98					
170	401	309	233	121					
220	464	357	269	140					
270	517	397	299	156					
320	561	431	324	169					
360	592	455	342	178					

Pressure Drop Hot Water (Shell Side)



Pressure Drop Pool Water (Tube Side)





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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