# **PRODUCT PROFILE**

# -80-5113-1 **Swimming Pool Heat Exchanger**

#### Introduction

The Bowman EC80-5113-1 is a compact, yet highly efficient heat exchanger, that is designed for heating spas, hot tubs and domestic swimming pools up to 50 m<sup>3</sup>, via a boiler heat source. It features 'Universal Fit' composite end covers, for easy installation into pool or spa pipework and a choice of either a titanium, cupro-nickel, or stainless steel tube core.

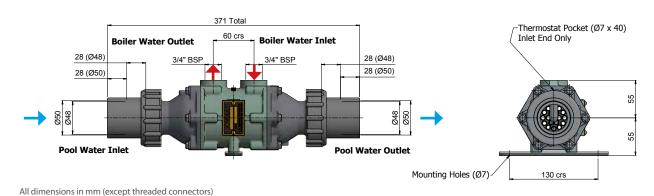
## Typical Heat Transfer

Boiler heating: 25kW

# **Product Benefits**

Proven – heats spas and hot tubs extremely fast, reducing energy costs Easy to install - solvent weld 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



Max. Operating Туре **Tube Material Typical Pool Maximum Pool Maximum Hot** Max. Operating Weight Pressure Pool Water Pressure Hot Water Capacity Water Flow Water Temp m³ gal m³∕h l/min ۰C bar bar psi psi EC80-5113-1C Cupro-nickel 8,800 9.0 150 110 230 40 6 87 6 87 EC80-5113-1S\* **Stainless Steel** 50 11,000 12.0 200 110 230 6 87 6 87 EC80-5113-1T Titanium 60 11,000 12.0 200 110 230 6 87 6 87

\*Not suitable for use on pools fitted with salt water chlorinators or salt water pools.



kg

3.0

3.0

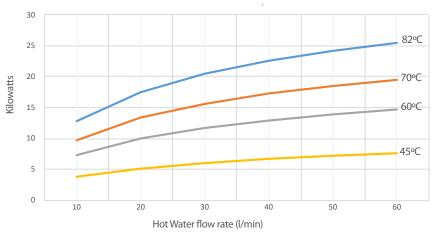
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### Water Flow

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.

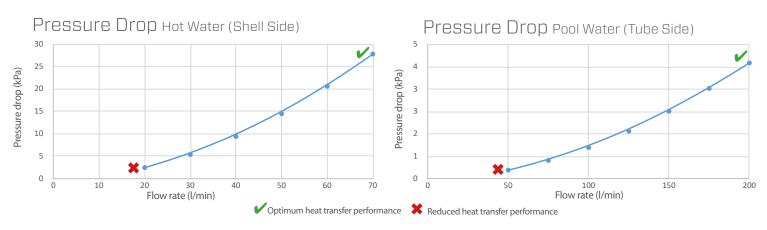
For more information please visit; https://ej-bowman.com/knowledge-centre/why-doesn't-my-pool-heat-up-faster/

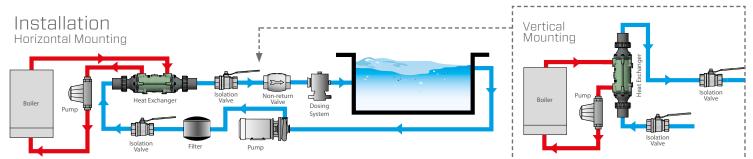
#### Heat Transfer



kW Heat Transfer - EC80-5113-1 Pool water flow 200 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
10	13	10	7	4
20	18	13	10	5
30	21	16	12	6
40	23	17	13	7
50	24	19	14	7
60	26	20	15	8





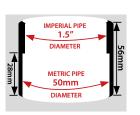
If an automatic dosing system is added, it must be installed after the heat exchanger on the return to the pool.

### Universal Fit End Covers

The EC80-5113-1 is supplied with 'Universal Fit' composite end covers, designed for use with either 1.5" nominal pipe size (48mm O/D) or metric 50mm O/D pool pipework. The 'socket union' component enables either diameter to be accommodated, as shown on the adjacent cross section illustration.

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