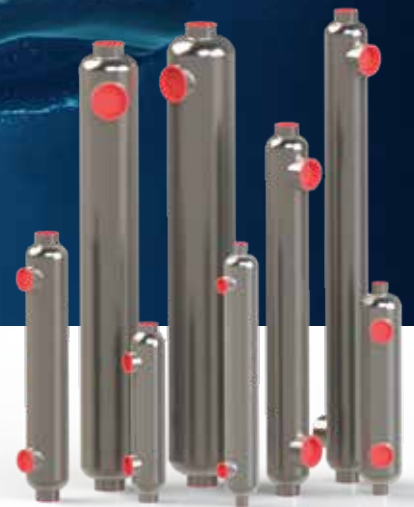




Swimming pool heat exchanger



Construction of Pool HEX

Pool Heat Exchangers

Because of the added chlorine and bromine found in pools and spas and the flow requirements at the pool/hot tub side, flat plate solar heat exchangers are not suitable. A Special high flow pool heat exchanger should be used instead. These heat exchangers can handle the higher secondary side flow as well as the high levels of chlorine and also have better flow characteristics making them ideal for solar pool heating or solar hot tub heating. For applications that use salt water, we recommend the Titanium version of the pool heat exchanger. This version is highly resistant to salt water and chlorine.

Our Pool Exchanger Line of heat exchangers are designed to perform at high secondary side fluid velocities with low pressure drops.

They have a helical coiled tube design that makes it distinctive from other shell and tube heat exchangers on the market today. This unique design enables efficient heat transfer performance, and allows for diversity in its applications.

To maximize the performance of the Pool exchanger, the product should be installed in a counter-current flow method. The hot, or heating, fluid flows through the tube or primary side. The cold, or heated, fluid flows through the shell or secondary side. (Figer 1)

Features:

With high heat transferring efficient heat exchanger tubes and smooth shell, it ensures high velocities inside of the unit making the heat exchanger a very reliable, efficient and cost effective way to transfer heat indirectly between any solar heating or boiler circuit and any pool or spa circuit, besides other applications.

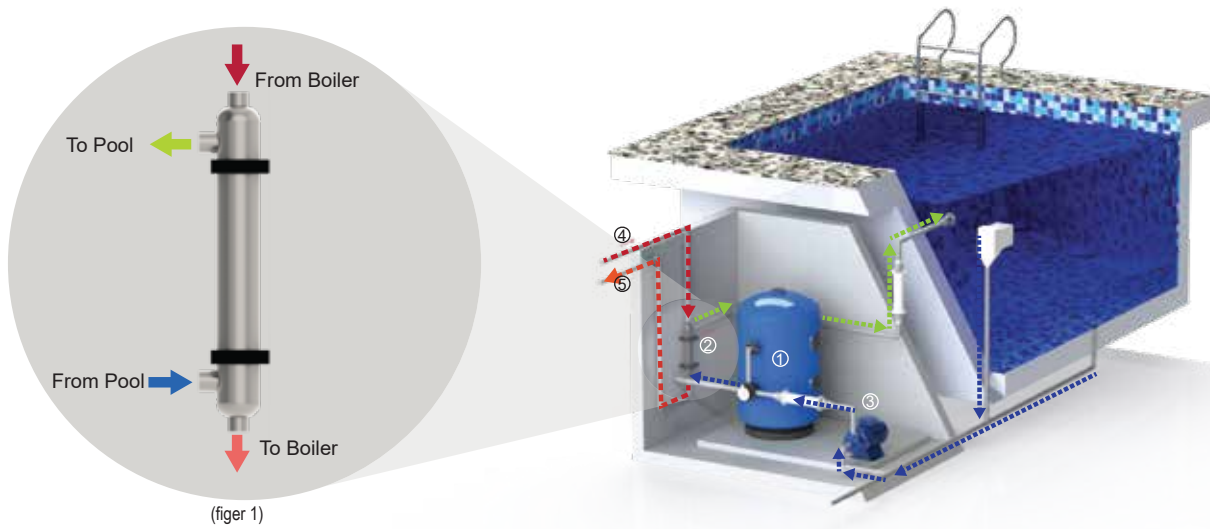
Advantages:

- High efficiency, coefficient up to 14000 w/m2 deg C, Heat exchanging capacity 3-7 times traditional equipment's
- Compact configuration, occupy small area, one tenth as the traditional equipment
- Stainless steel and/or Titanium, material, endure high temperature, pressure and corrosion
- Helix screw thread elasticity heat exchange bundle, eliminate the stress
- Design flux speed is 5.5m/s, less dirt
- Big flow volume
- Compactable
- Easy installation and durable



Pool heat exchanger with Bracket

Flow instruction



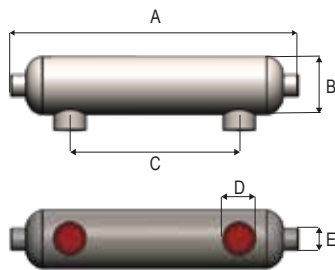
1. Sand Filter
2. Pool heat exchanger
3. Pump
4. From hot source e.g Solr, Boiler or Heat pump
5. Return to hot source

Sepecifications and Dimesions

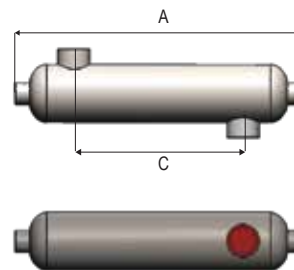
Material: Stainless / Titanium

Max design pressure: 10 bar or 30 bar (145 Psi or 440 Psi)

Max temperature: 300 °C (572 °F)



Same direction connection on shell



Opposite direction connection on shell

American Model	SP55	SP85	SP105	SP205	SP300	SP360	SP600	SP1200	SP2400	SP3000	SP3600	SP4500	SP5000	SP6000
Global Model	ST16	ST25	ST45	ST60	ST88	ST105	ST175	ST352	ST700	ST880	ST1050	ST1350	ST1450	ST1750
A [mm]	339	494	404	511	701	890	862	895	964	1130	1330	1030	1130	1330
B [mm]	63.5	63.5	80	80	80	80	110	127	168	168	168	219	219	219
C [mm]	253	408	310	417	611	800	750	765	834	1000	1200	900	1000	1200
D [mm]	1"	1"	1.5"	1.5"	2"	2"	2.5"	2.5"	4"	4"	4"	4"	4"	4"
E [mm]	3/4"	3/4"	1"	1.5"	1.5"	1.5"	2"	2"	2.5"	2.5"	2.5"	2.5"	2.5"	2.5"
POOL SIZE [m³]	15	25	45	65	90	110	180	360	800	1000	1200	1500	1660	1800
Capacity KW	16	25	45	60	88	105	175	352	700	880	1050	1350	1450	1750