

SS Series - Swimming Pool Heat Exchangers

SS-Series pool heaters provide a simple yet effective method of heating swimming pool water indirectly from a central heating hot water boiler, a solar heated glycol loop or a geothermal loop. These heat exchangers will provide improved efficiency since you are utilizing the higher efficiency of the boiler instead of the lower efficiency direct heated gas fired pool heaters.

The SS-Series heat exchangers are flexible and can be used for many applications including spa/hot-tub maintaining of temperatures, aquaculture fresh water pond heating and also fountain water heating. To select the right model for your pool see our Quick Sizing Table. For more specific or unique applications please contact us.

Features:

Manufactured entirely of Stainless Steel 316L to ensure corrosion resistance to chlorinated pool and spa water resulting in longer equipment life.

Rugged construction with heavy gauge material allows for long uninterrupted life of the heat exchanger. High flow rates through heat exchangers result in inherently self cleaning nature.

With high flow rates of the pool water going through the shell and boiler water or hot side loop through the tubes, low pressure drops are achievable.

Stainless Steel shell is painted so that chlorine vapour from the air in the pool room will not result in attack on the welds and will provide longer life.



Shown: SS240 240,000 btu/hr capacity

Benefits

- Corrosion Resistant
- Self Cleaning
- Compact Design
- Low Pressure Drops
- Sturdy Construction
- Long Life
- Quick Delivery from Stock

Applications

- Swimming Pools
- Spas, and hot tubs
- Domestic hot water
- Waste water heat recovery
- Freshwater Aquaculture
- Aquaponics
- Pisciculture

Standard Material

Tube Stacks: SS316L
Shell: SS316L

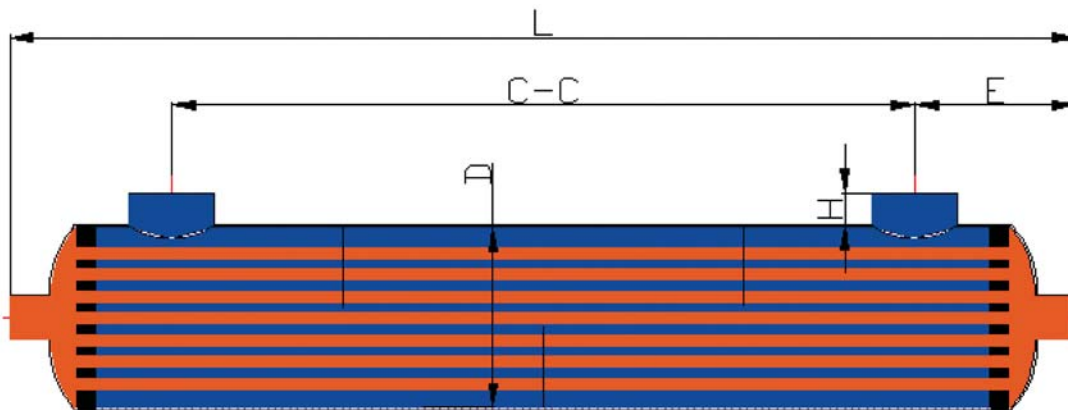
Maximum Pressure

Hot Side: 150 psig
Cold Side: 150 psig

Maximum Temperature

Tube Side: 250 ° F
Shell Side: 230 ° F

| Type | Capacity | Dimensions(in) | | | | | ConnectionFNPT | |
|--------|-----------|----------------|------|-------|-----|------|----------------|-----------|
| | Btu/hr | L | D | C-C | F | H | Tubeside | Shellside |
| SS100 | 100,000 | 16.9 | 3.50 | 8.7 | 4.1 | 0.71 | 3/4 | 1.5 |
| SS170 | 170,000 | 18.7 | 3.50 | 10.70 | 4.0 | 0.71 | 1.0 | 1.5 |
| SS260 | 260,000 | 25.8 | 3.5 | 17.7 | 4.0 | 0.71 | 1.0 | 1.5 |
| SS370 | 370,000 | 29.7 | 3.5 | 21.7 | 4.0 | 0.71 | 1.0 | 1.5 |
| SS640 | 650,000 | 38.0 | 4.3 | 29.2 | 4.4 | 0.75 | 1.5 | 2.0 |
| SS1150 | 1,200,000 | 52.0 | 4.3 | 43.2 | 4.4 | 0.75 | 2.0 | 2.0 |



Quick *Sizing Table:

| Pool Capacity (USGAL) | Model | 1F/Hr Heat Btu/hr | Model | 2F/Hr Heat Btu/hr |
|-----------------------|--------|-------------------|--------|-------------------|
| 6,000 | SS100 | 50,000 | SS100 | 100,000 |
| 12,000 | SS170 | 100,000 | SS170 | 200,000 |
| 18,000 | SS260 | 150,000 | SS260 | 300,000 |
| 28,000 | SS370 | 234,000 | SS370 | 468,000 |
| 36,000 | SS640 | 300,000 | SS640 | 600,000 |
| 46,000 | SS1150 | 385,000 | SS1150 | 770,000 |

*Based on 180°F boiler water (please consult Valutech for capacities for Solar and Geothermal applications)

| Rating | Design Pressure | Design Temperature | Material |
|------------|-----------------|--------------------|----------|
| Shell Side | 150 psi | 230 F | SS316L |
| Tube Side | 150 psi | 250F | SS316L |