

S SERIES

316L SS Pool + Spa Heat Exchangers

S70, S130, S180, S250 S300, S500, S1000

The S Series heat exchangers are made entirely of high quality, specially treated AISI 316L stainless steel to ensure superior corrosion resistance and longer life. Fabricated with a distinctive helically corrugate tube design which delivers excellent thermal performance. Intended for use with high fluid flows and low temperature variances, these robust, compact heat exchangers are ideal for many residential and industrial applications.

TYPICAL APPLICATIONS

- Standard chlorinated pools and hot tubs.
- Fresh water applications.
- Pool heating with gas or oil fired boilers.
- In-floor heating / snowmelt.

DISTINCT ADVANTAGES

- Dense heat transfer area.
- Low pressure drops.
- Made entirely of high quality, specially treated AISI 316L stainless steel to ensure superior corrosion resistance and longer life.
- Self-cleaning, self-descaling design.

Complete SS316L
welded design

Pool water on
the shell side

Passivated and
externally electro
polished

Closed spaced
baffles

Densely packed 6mm
precision tubing

Heating source on
the tube side

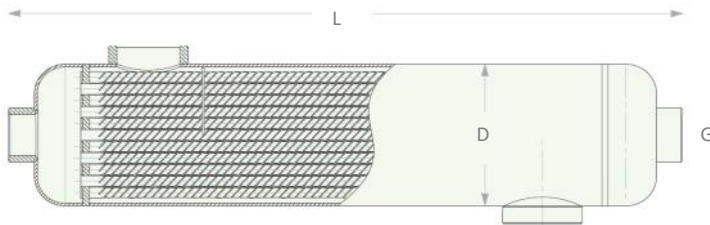
**EXCELLENT THERMAL
EFFICIENCY**

IBC INTERGAS®

Heat exchanger nominal performance

HEAT EXCHANGER MODEL	NOMINAL CAPACITY			HOT WATER SIDE		COLD WATER SIDE	
	140°F	100°F	70°F	FLOW USGPM	PRESSURE DROP PSIG	FLOW USGPM	PRESSURE DROP PSIG
S 70	70,000	62,000	50,000	6.60	1.09	44.91	1.33
S 130	130,000	116,000	93,000	7.13	1.17	52.83	1.65
S 180	180,000	156,000	120,000	7.93	0.40	55.48	1.10
S 250	250,000	220,000	165,000	9.25	0.60	71.33	1.70
S 300	300,000	260,000	200,000	10.57	0.90	49.25	2.50
S 500	500,000	410,000	315,000	14.53	1.30	95.10	3.20
S 1000	1,000,000	805,000	620,000	25.10	2.35	185.24	4.22

Nominal capacity values are based on heating 140°F temperature difference between incoming heating (40°F) and heated water (180°F)
 Nominal capacity values are based on heating 100°F temperature difference between incoming heating (80°F) and heated water (180°F)
 Nominal capacity values are based on heating 70°F temperature difference between incoming heating (80°F) and heated water (150°F)



Standard materials:

316 L Stainless Steel

Maximum allowable working pressure:

SS 316L 150 psig

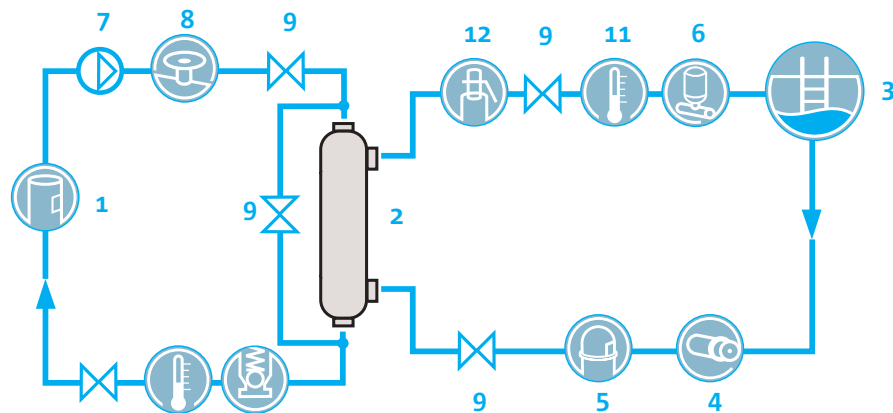
Maximum allowable working temperature:

SS 316 L 406°F

HEAT EXCHANGER MODEL	DIMENSIONS							HEAT TRANSFER AREA SQ.FT
	L	A	B	C	D	F	G	
				INCHES				
S 70	13.58	4.17	6.89	3.35	3.15	1-1/2	3/4	2.79
S 130	15.55	4.17	8.86	3.35	3.15	1-1/2	3/4	3.30
S 180	15.08	5.04	7.60	3.74	4.0	1-1/2	1	4.91
S 250	20.20	5.04	12.72	3.74	4.0	1-1/2	1	7.29
S 300	24.88	5.04	17.40	3.74	4.0	1-1/2	1	9.38
S 500	42.72	5.04	34.80	3.96	4.0	2	1	17.32
S 1000	36.10	6.57	26.63	4.72	5.5	2	2	23.68

Typical Swimming Pool Installation

- Boiler
- Heat exchanger
- Swimming pool
- Pump
- Filtration
- Chlorine Feeder
- Circulation pump
- Flow control valve
- Gate valve
- Check valve
- Thermometer
- Safety relief valve



IBC Technologies

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All information contained in this brochure is subject to change without notice. Due to clerical error, regulation change or product development please confirm all information with IBC INTERGAS

Based on heating source 180°F (82.2°C).