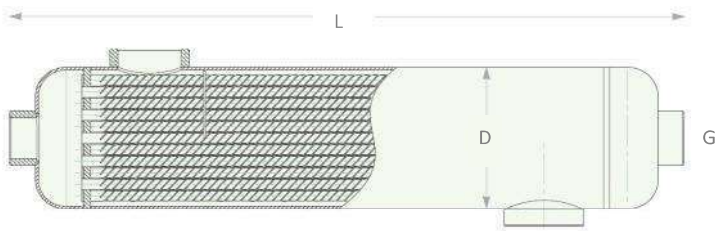
S SERIES
Technical Information

Heat exchanger nominal performance

HEAT EXCHANGER MODEL	NOMINAL CAPACITY BTU/h 140°F	100°F	70°F	HOT WATER SIDE FLOW USGPM	PRESSURE DROP PSIG	COLD WATER SIDE 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

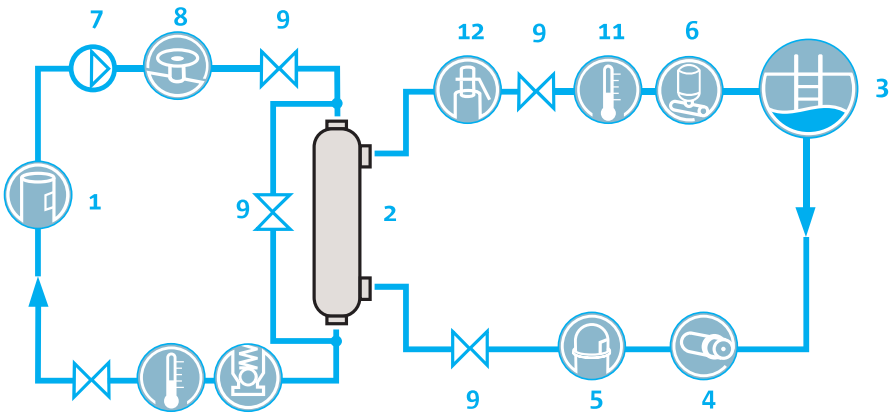
Maximum allowable working temperature:

SS 316 L 406°F

HEAT EXCHANGER MODEL	DIMENSIONS L	A	B	C	D	F	G	HEAT TRANSFER AREA
				INCHES				SQ.FT
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

1. *Boiler*
2. *Heat exchanger*
3. *Swimming pool*
4. *Pump*
5. *Filtration*
6. *Chlorine Feeder*
7. *Circulation pump*
8. *Flow control valve*
9. *Gate valve*
10. *Check valve*
11. *Thermometer*
12. *Safety relief valve*



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

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

900-350 (R1) Jan 2020