SPIREC TYPE S

SPIRAL PLATE HEAT EXCHANGER

Description:

Material: 316L Stainless Steel sheet stock
A.I.S.I. Low Carbon Nickel Chromium with Molybdenum

Construction: All welded, no gasket

Sheet Thickness: Heat Transfer Surface: 0.020"
Outer Jacket: 0.032"

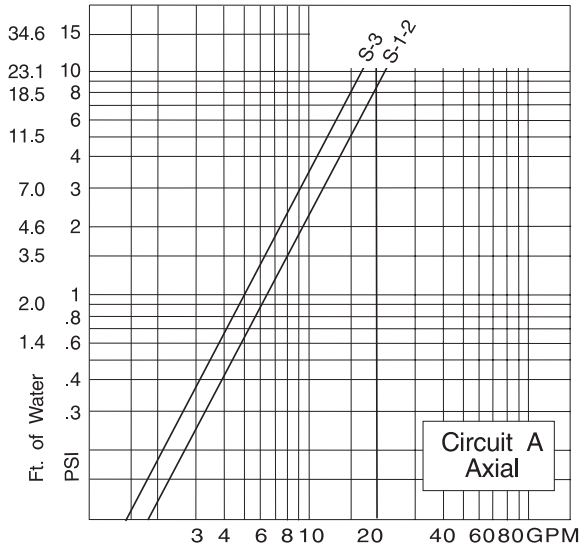
Heat Transfer Surface - Flow Paths

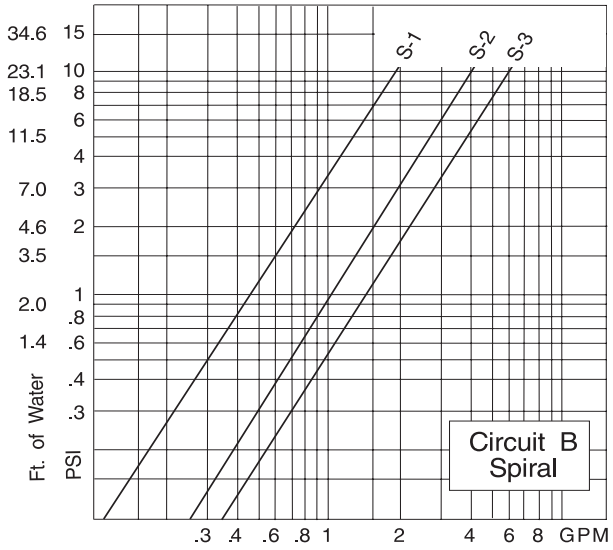
		Flow Path	
Type	**Sq. Ft.**	**Circ A**	**Circ B**
S	0.67 to 3.78	Axial	Spiral

Design Temperature & Pressure - Baffle Material

	Pressure PSI		Temperature		Baffle Material	
Model	**Circ A**	**Circ B**	**Min**	**Max**	**Circ A**	**Circ B**
SN	230	360	-50	480	None	Silicone
SFG	230	360	-50	300	None	Neoprene

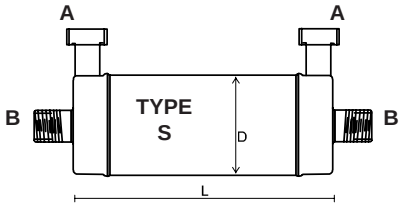
Pressure Drop Curves: Water to Water 70°F Type S





Physical Data: Type S

	OVERALL DIMENSIONS		CONNECTIONS **M**=MALE NPT **F**=FEMALE NPT **T**=TUBE		WEIGHT	
TYPE SIZE	**DIAMETER D INCHES**	**LENGTH L INCHES**	**CIRCUIT A INCHES**	**CIRCUIT B INCHES**	**DRY LBS.**	**WATER FILLED LBS.**
	TYPES S					
0	2-1/2	4-3/4	1/2-T	3/8-T	1.2	1.7
1	2-3/4	6-1/4	3/4-F	1/2-M	2.4	3.3
2	2-3/4	10-1/4	3/4-F	1/2-M	4.0	5.5
3	2-3/4	14-1/4	3/4-F	1/2-M	5.7	7.7



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Installation Information - Mounting & Piping Type S

Flow Path:

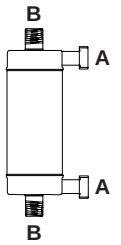
Axial: Circuit A
Large cross-section circuit for high flows and/or high viscous fluids.

Spiral: Circuit B
Small cross-section circuit for low flows and/or lower viscous fluids.

Mounting:

All Applications and Vapor Condensing in Circuit B

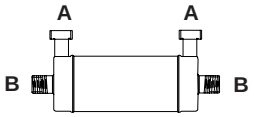
- Eliminates trapped air
- Both circuits will drain
- When used as an evaporator, pipe evaporating liquid in at the bottom
- When used to condense vapor in Circuit B, pipe vapor in at top



Best Mounting

Liquid to Liquid Applications

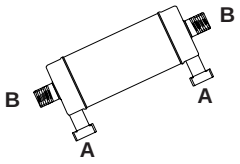
- Air is removed by pumping the liquid
- Both circuits will not drain
- Circuit A connection must be positioned at the top



Satisfactory Mounting

Vapor Condensing in Circuit A

- Except Type CC
- Air in Circuit B is removed by pumping the liquid
- Circuit B will not drain
- Can be mounted at any angle but Circuit A connection must be at the bottom



Satisfactory Mounting

Piping:

- All standard connections are tapered pipe thread. Refer to model data for connection size.

- Pipe the heat exchanger for counterflow fluid direction. This arrangement with the fluids flowing in opposite direction is recommended for most heat transfer applications.