SPIREC TYPE K

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: 0.032"
Outer Jacket: 0.039"

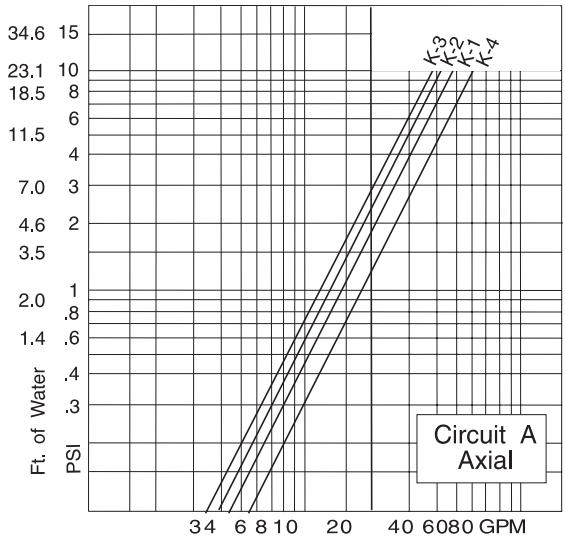
Heat Transfer Surface - Flow Paths

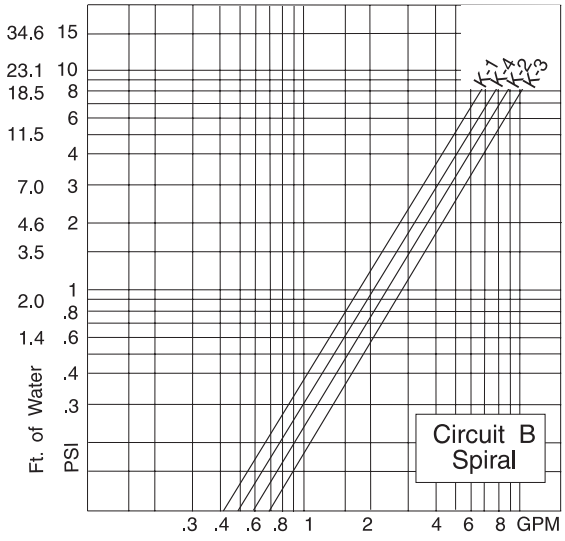
		Flow Path	
Type	**Sq. Ft.**	**Circ A**	**Circ B**
K	3.78 to 15.07	Axial	Spiral

Design Temperature & Pressure - Baffle Material

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

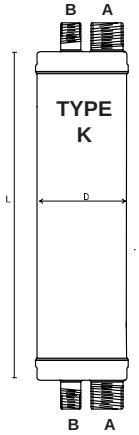
Pressure Drop Curves: Water to Water 70°F Type K





Physical Data: Type K

	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 K					
1	3-3/4	10-3/4	1-M	1/2-M	10.0	13.1
2	3-3/4	15-1/2	1-M	3/4-M	14.5	18.9
3	3-3/4	20-1/4	1-M	3/4-M	19.0	24.7
4	4-3/4	20-1/4	1-1/4-M	3/4-M	31.0	39.2



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Installation Information - Mounting & Piping Type K

Flow Path:

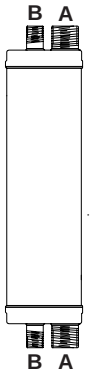
Axial: Circuit A
Large cross-section circuit for high flows and/or high viscous fluids.

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

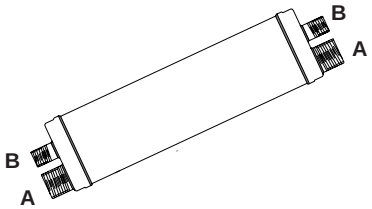
Liquid to Liquid Applications

- 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 in 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.