

### SYSTEM OVERVIEW

**Sepak Industries Tube heat exchangers** are one of the most energy efficient tube heat exchangers in the world.

These tube heat exchangers are also known as spiral heat exchanger or corrugated heat exchangers and are up to 3 times better in heat transfer than a straight tube type.

### APPLICATION

- Water to water or Liquid to liquid
- Steam to water or product
- Airconditioning system condensers
- Refrigeration system condensers or evaporators
- Heat recovery
- Co-generation plants
- Tri-generation plants
- Exhaust gas heat recovery
- Products with solids
- High viscosity products
- Juice pasteurisers
- And many more applications

### BENEFITS

- Large increase in heat transfer coefficient
- Thermal treatment is quicker and more effective
- More natural food products, No degradation in organic prosperities
- Products containing large particles can be processed
- No maintenance costs
- Corrugated tubes tend to be self-cleaning
- Reduction in heat transfer area
- Significant savings when using Titanium, Hastelloy etc.
- Ideal for high pressure and temperature processes
- The heat exchanger is smaller than the equivalent smooth tube unit



**MODEL: K13-104/18-1.5-316/304-H:**

DIMENSIONS 1500mm long x 104mm outer diameter  
 Tank Water volume 5000  
 Start and End Temp. °C 15 to 85  
 Steam Pressure (Bar g) 7 Bar Gauge

Circulation rate (L/Hr.)	Heating time (Min.)	Steam Flow rate (kg/Hr.)	Boiler Capacity required (kW)	HX Excess Capacity (%)
5000	70	153	88	366
10000	52	306	175	168
15000	47	458	263	85
20000	45	611	350	39
25000	44	764	438	11

**MODEL: K19-129/18-1.5-316/304-H:**

DIMENSIONS 1500mm long x 129mm outer diameter  
 Tank Water volume 10000  
 Start and End Temp. °C 15 to 85  
 Steam Pressure (Bar g) 7 Bar Gauge

Circulation rate (L/Hr.)	Heating time (Min.)	Steam Flow rate (kg/Hr.)	Boiler Capacity required (kW)	HX Excess Capacity (%)
15000	107	458	263	162
25000	95	764	438	63
30000	93	917	526	36
35000	91	1070	613	16
40000	90	1222	700	1.2

The dimensions and specifications are approximate only and may change without notice.

