Sidearm Heat Exchangers

Designed using the natural thermo-siphon on the domestic hot water side, our sidearm heat exchangers not only provide faster heating at a greater capacity than traditional sidearms, they prevent cross contamination in potable water application.

While the capacity of traditional sidearm heat exchanger is determined by the length of sidearm tubes and their heat transfer efficiency is comparitively very low.Instead of using two bare copper tubes,our fin-enhanced heat exchangers made of stainless steel and will have high heat transfer efficiency resulting from the utilization of an internal finned tube.This fin-enhanced design has a surface are five to eight times bigger than the bare tube design and produces significant turbulence on the system side.Our fin-enhanced sidearms provide a larger capacity and faster hearing using a shorter unit.Fin-enhanced sidearms are available upon request..Download the Sidearm Heat Exchanger Brochure.

Double Wall Sidearm Heat Exchangers

Concerns about cross contamination of potable water has forced several US States to enact several regulations designed to prevent this from happening.Double wall sidearm heat exchangers present the most effective means of protection from cross contamination.Our vented double walled sidearm meets all the criteria of these regulation.

Applications of the Sidearm Heat Exchanger

Due to its compact size and lightweight,these sidearm heat exchangers come highly recommended for use in domestic water heating and residential plumbing applications.Also called domestic water heat exchangers,thy are typically used to heat domestic water using either a conventional boiler,outdoor wood furnace or a solar hot water system.

- **Domestic Hot Water Heating**
- **Outdoor Wood Furnances**
- **Solar Hot Water Heating**

Typically the domestic water is circulated by means of the thermosiphon principle which saves on the cost of a pump and the associated electrical costs,In cases where faster heat recovery is required the domestic hot water should be circulated by means of a pump.Pump circulation will typically provide a heat recovery 3 to 4 times greater than thermosiphoning.We offer the following three models:

Model No.	BTU/hr	Length	Connection size		Construction	C-C Distance
			DHW Side	System side		System Side
FES-115	22500	975mm	3/4"NPT	3/4"NPT	SS304	855mm
FES-115DW	18000	975mm	3/4"NPT	3/4"NPT	SS304	855mm
FES-95	18500	840mm	3/4"NPT	3/4"NPT	SS304	720mm