

THERMO-SIPHON HEAT EXCHANGER SIDEARM

Sidearm heat exchanger is designed with natural thermo-siphon concept on domestic hot water side.

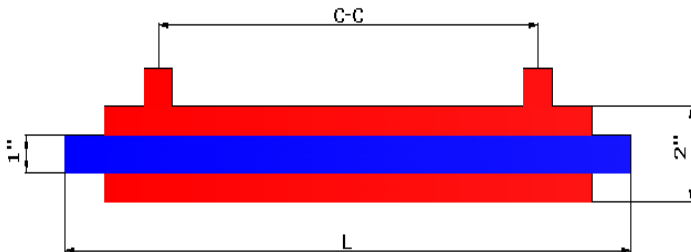
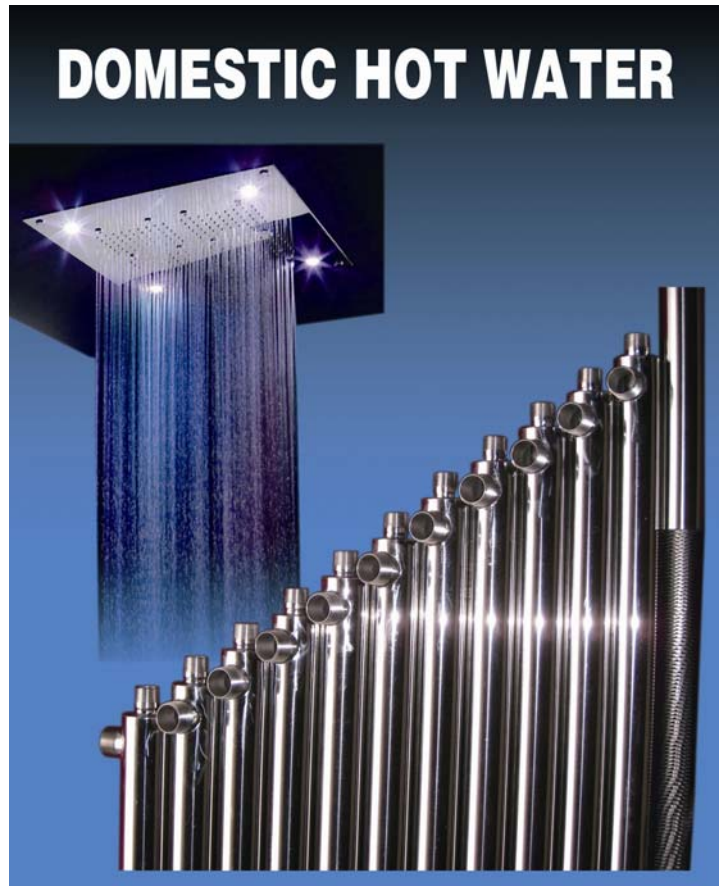
Traditional sidearms are made of two bare copper tubes. Thus the capacity is decided by the length of sidearm tubes and the heat transfer efficiency is very low. Made of stainless steel, fin-enhanced sidearm increases heat transfer efficiency significantly by using finned tube internally, which has surface area five to eight times bigger than bare tube and generates great turbulence on system side.

With fin-enhanced sidearm you need only a shorter unit, but get more capacity and faster heating.

We first invented FES sidearm and have successfully introduced them into HVAC industries.

FES Advantages:

- Extremely Efficient
- Compact Size and Easy Install
- Easy Cleaning Mechanically
- No Complain for Hot Water



APPLICATIONS

- Outdoor wood boilers
- Solar energy heating
- Domestic hot water
- Floor heating

Model No	L	Connection size		Construction	C-C Distance System Side
		DHW Side	System Side		
FES-115	38.4"/975mm	3/4" NPT	1" NPT	SS304	33.7"/855mm
FES-95	33.1"/840mm	3/4" NPT	1" NPT	SS304	28.3"/720mm

CROSS REFERENCE

Type	Length	Tube Size	Heat Transfer	Capacity/BTU	Tank Size	Heat Recovery Time
		Outer/Inner	Surface Area	Siphon		
Copper Sidearm	60"	2"/1"	1.13 ft ²	11600	60 Gallon	6.8 hours
FES-115	38"	2"/1"	3.62 ft ²	23000	60 Gallon	3.8 hours
Flat Plate 5x12	10 Plate		2.62 ft ²			
Copper Sidearm	48"	1.5"/1"	0.91 ft ²	9600	40 Gallen	6.5 hours
FES-95	33"	2"/1"	3.16 ft ²	19000	40 Gallon	3.4 hours