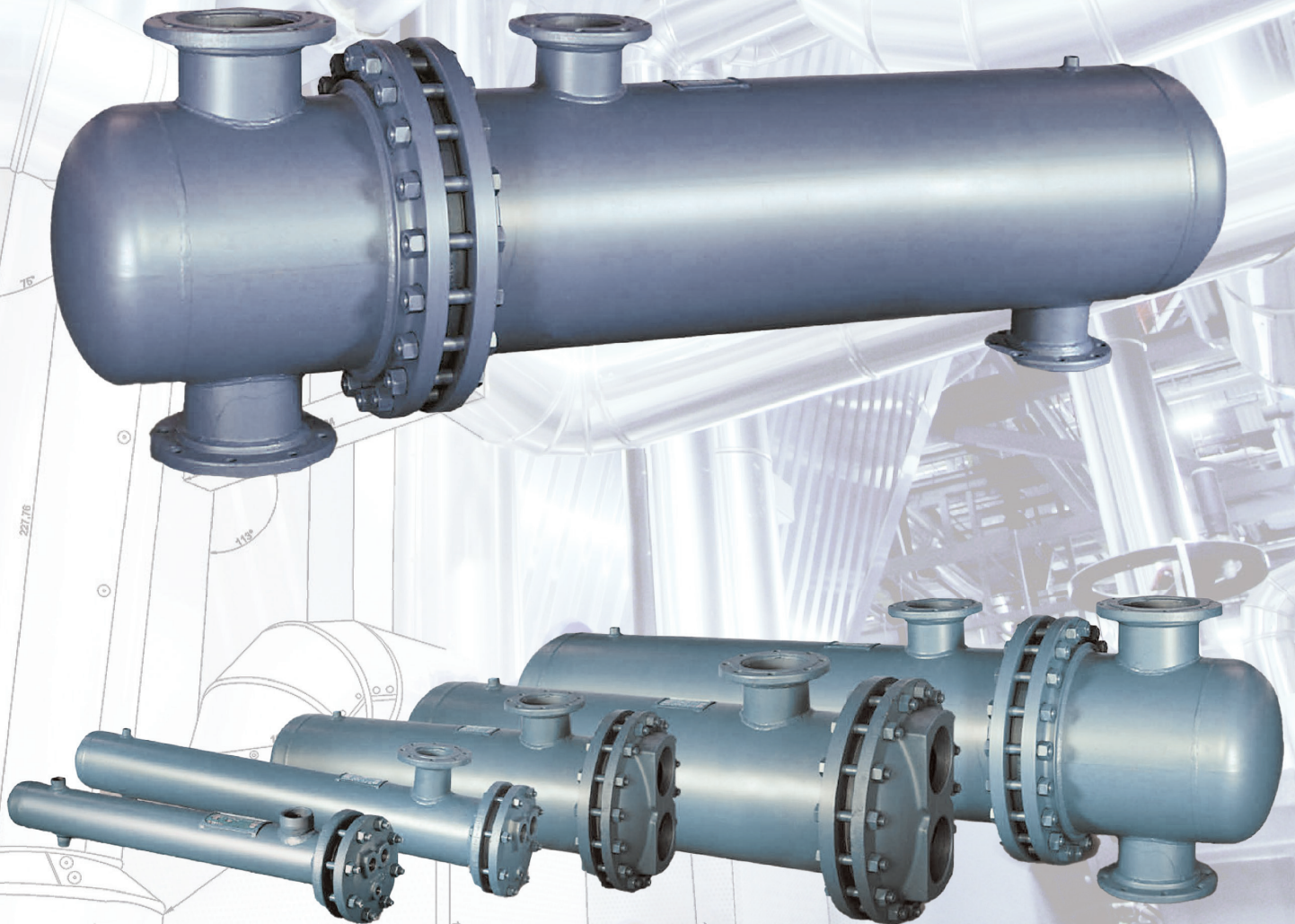


THERMAFLO
INCORPORATED SINCE 1986

MANUFACTURERS OF STEAM FIRED SPECIALTY EQUIPMENT
2880 FAIR AVENUE, NEWBERRY, SC. 29108 | PHONE: 704-940-1228

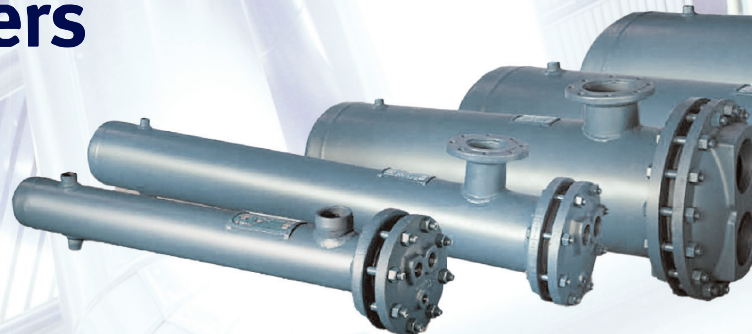
SHELL & TUBE HEAT EXCHANGERS

- **Steam to Water**
- **Water to Water**



Thermaflo Inc. manufactures specialty designed shell and tube heat exchangers and heater packaged systems engineered to meet many applications including steam heating or cooling liquids for process systems, heat recovery, and comfort systems using steam or liquids. They are manufactured in the time proven "U" tube designs and are available with many variations in material, pressure, temperature, and special features to meet specific application requirements.

Thermaflo Shell Tube Heat Exchangers



"U" Bend ASME Code Construction

Standard Features

Type

- Steam to Water (2 or 4 Pass)
- Water to Water (2 or 4 Pass)

Sizes

- 4" to 30" diameter
- 2' to 14' length

Materials (Tubeside)

- Heads 4" to 20" cast iron, 22" to 30" fabricated steel
- Tubesheets 4" to 30" carbon steel
- Tubing 3/4" copper .035 wall thickness
- Teflon baffles

Materials (Shellside)

- Carbon steel pipe with ANSI flanges
- Complete 316L Available

Operating Pressures (Tubeside)

- 150 psig working pressure 4" to 12" diameter with cast iron head
- 125 psig working pressure 10" to 12" diameter with 2 pass 4" NPT cast iron head
- 125 psig working pressure 14" to 20" diameter with cast iron head
- 150 psig working pressure 20" to 30" diameter with fabricated steel head

Operating Temperature (Tubeside)

- 375° F maximum operating temperature 4" to 30" cast iron or fabricated heads

Operating Pressures (Shellside)

- 150 psig working pressure carbon steel construction (All sizes)

Operating Temperature (Shellside)

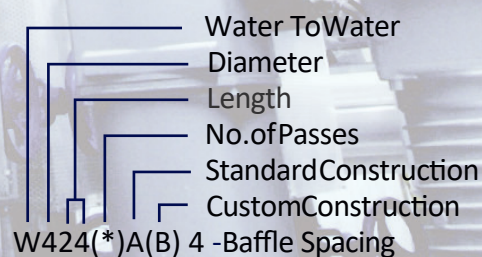
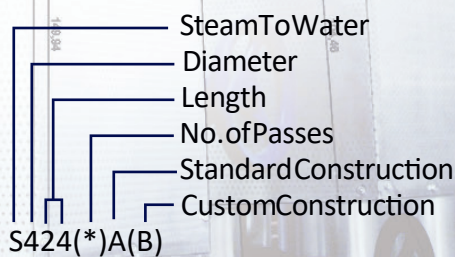
- 375° F maximum operating temperature carbon steel construction (All sizes)



Thermaflo TH750 Heat Exchanger Package

To ensure safety and optimal performance, all Thermaflo heat exchangers are constructed under an approved quality control program. Each unit is manufactured, tested, and "U" stamped to ASME Code requirements in accordance to Section VIII Division 1.

Thermaflo code for "U" Bend Heat Exchangers All Dimensions in Inches





Double Wall Tube Heat Exchangers

A double wall unit consists of regular "U" Tube heads and shells. The conversion to a double wall unit requires a tube bundle with double wall tubing and tube sheets. Sizes are 4" to 16" diameter with lengths 24" to 120". All standard and optional head and shell features are available for double wall units. The following are the options available for a double wall tube bundle.

Optional Features

Materials Heads

- Cast bronze 4" to 10" (2 or 4 Pass)
- Cast stainless steel 4" to 10" (2 or 4 Pass)
- Fabricated 300 series stainless steel 12" to 20" (2 or 4 Pass)
- Fabricated steel 4" to 20" (2 or 4 Pass)

Tube sheets

- Brass plate 4" to 18" (2 or 4 Pass)
- Type 304 stainless steel 4" to 20" (2 or 4 Pass)
- Type 316 stainless steel 4" to 20" (2 or 4 Pass)

"U" Bend Tubing Chart

Material	Thickness	MaxPSI	MaxTemp
18 Ga. Copper	.049	400 psig	400° F
90/10 CU/NI	.049	400 psig	600° F
Carbon Steel	.065	1000 psig	650° F
304 Stainless	.049	650 psig	650° F
316 Stainless	.049	900 psig	650° F

Baffles

- TEFLON 4" to 20"
- Class 300 stainless steel 4" to 20" Shell
- Series 300 stainless steel

Operating Pressure and Temperature Heads

- 4"-8" Billet head (2 or 4 Pass) 400 psig @ 400° F
- 10"-16" Bonnet head (2 or 4 Pass) 400 psig @ 400° F
- 18"-24" Bonnet head (2 or 4 Pass) 300 psig @ 400° F

Shells

- 4"-16" Water to Water 400 psig @ 400° F
- 18"-24" Water to Water 300 psig @ 400° F
- 4"-24" Steam to Water 150 psig Standard and to 300 psig

Tube Sheets

- Carbon steel (standard)
- Naval brass (optional)
- 304 or 316 stainless steel (optional)

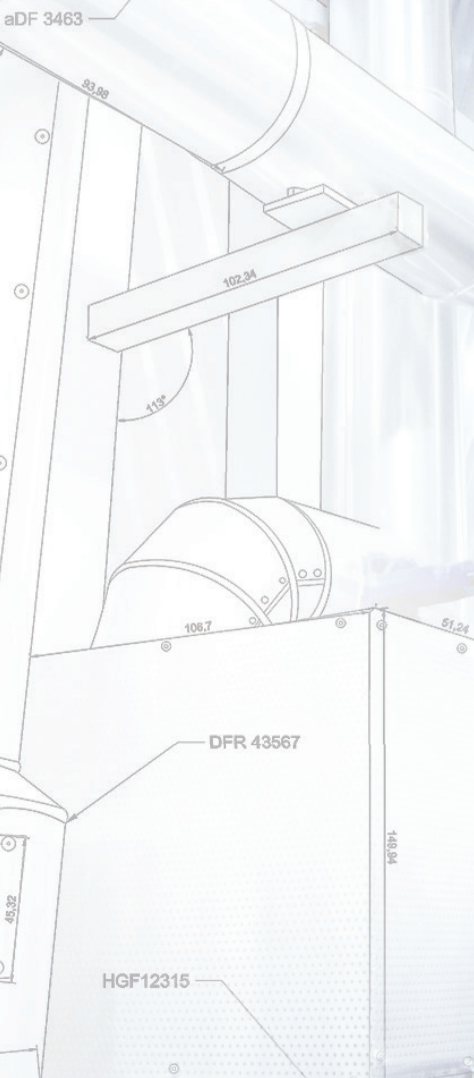
Double Wall Tubing

- .040" Copper inner tube .062" Copper outer tube (standard)
- .040" 90/10 Cupro-Nickel inner tube .062" 90/10 Cupro-Nickel outer tube (optional)

Tank Heater Units

Tank heater unit sizes are 4" to 20" diameter with 24" to 120" lengths. Standard tank heaters are constructed in accordance to ASME requirements for the same pressure and temperature ratings as the "U" Tube Heat Exchangers. A Manufacturer's Data Report for Pressure Vessels Form No. U-1 is available upon request. All options available for "U" tube heat exchangers can be applied to tank heaters.





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