

Heat Exchangers



Special Heat Exchangers



CEMLINE CORPORATION

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www.cemline.com

Cemline® Heat Exchangers

Construction and Design

Cemline Corporation Heat Exchangers are shell and tube type of either U-Bend or straight tube design. All heat exchangers are built to the exacting standards of the A.S.M.E. code and are so stamped. Exchangers can also be built to comply with TEMA standards.

Standard Package	Features
Sizes	4" through 30" diameter 12" through 240" in length
Construction	A.S.M.E. Code constructed and stamped TEMA.
Styles	U-Bend or straight tube styles are available. Straight tube in fixed or floating tube sheet design.
Working Pressure	Heat exchangers can be built to working pressures from 1 to 500 PSI. Normal working pressures are 125, 150, 300 PSI.
Shell Material	Shells are normally constructed of carbon steel. Stainless steel in grades 304 and 316 and 90:10 copper nickel can be furnished. Consult factory for other materials.
Tube Material	Tubes are normally furnished of seamless copper. Stainless steel of 304 and 316 as well as 90:10 copper nickel are normally in stock. Other materials can be furnished. Double wall tubing is available in copper inner/outer, 90:10 copper nickel inner/copper outer and 90:10 copper nickel inner/outer.
Tube Diameter	3/4" OD is the normal diameter of tubing. Diameters of 3/16", 3/8", 1/2", 5/8", 1" and 1-1/4" are available. Consult factory.
Tube Thickness	Cemline standard is 19 BWG copper, 20 BWG stainless, and 18BWG 90:10 copper nickel. 20, 18, and 16 BWG are available in all materials.
Passes	Cemline can furnish heat exchangers with one, two, four, six or eight passes on tube side, one or two passes on shell side.
Heads	Cemline can furnish heads with either bonnet or channel head design. Some sizes are available in cast iron, all sizes are available in fabricated steel, 304 or 316 stainless steel.
Exterior	Carbon steel exchangers are furnished with one coat shop primer, stainless steel are furnished with natural exterior. Galvanized or epoxy coatings can be furnished on request.

Typical Heat Exchangers

Cemline heat exchangers can be furnished in a variety of configurations. Shown below are three typical heat exchangers.

Floating head exchanger with flanged shell and flanged bonnet head openings.



Fixed tube sheet, one pass all stainless steel head exchanger.



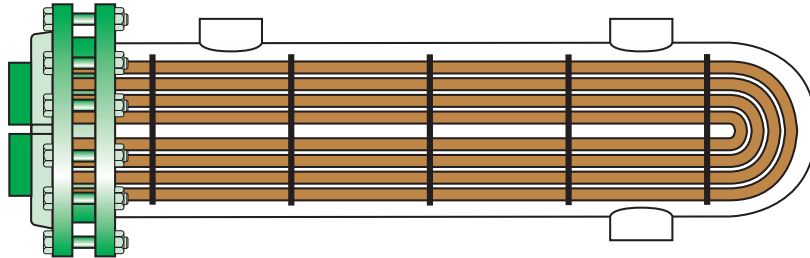
Two pass exchanger with stainless steel coil head. Note sanitary fittings on coil head.



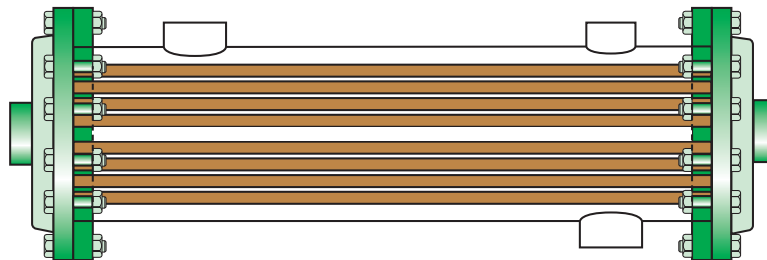
Types of Heat Exchangers

Heat exchangers are manufactured in a variety of configurations. Listed below are some of the types manufactured by Cemline Corporation.

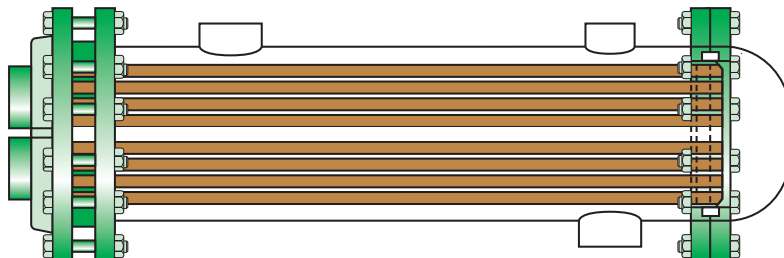
“U” Tube



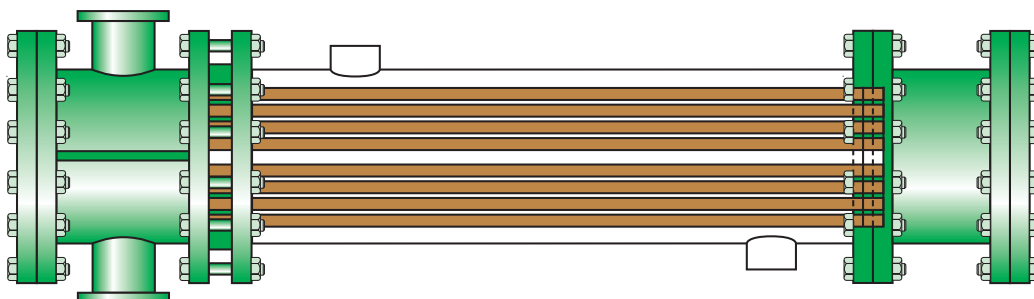
Straight Tube — Fixed Tubesheet



Straight Tube — Floating Head



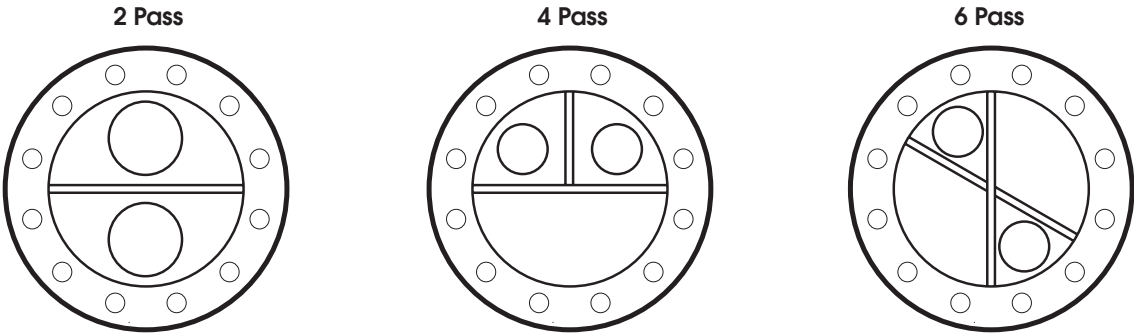
Straight Tube — Floating Head



Head Design

Coil heads can be made of cast iron, fabricated steel, fabricated stainless steel, or other materials. All types can be made 1, 2, 4 or 6 pass.

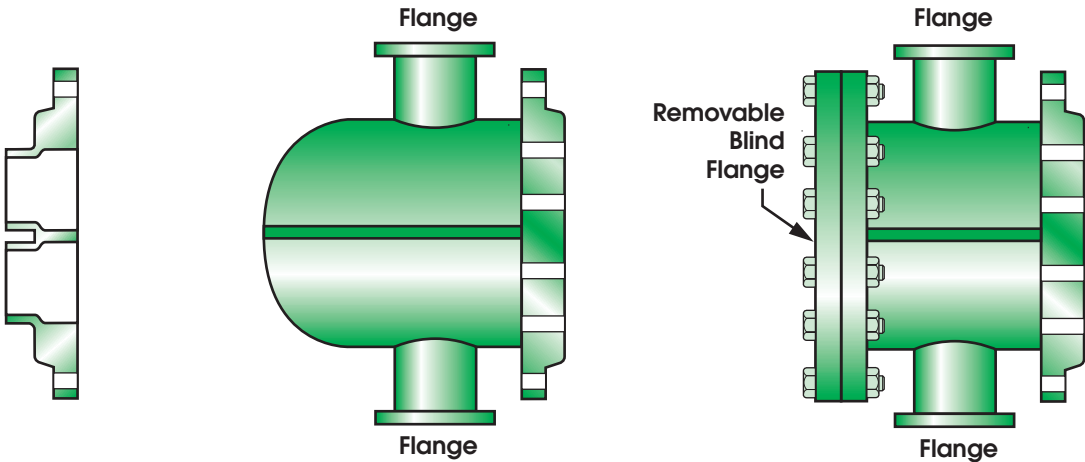
Coil Heads — Threaded Openings



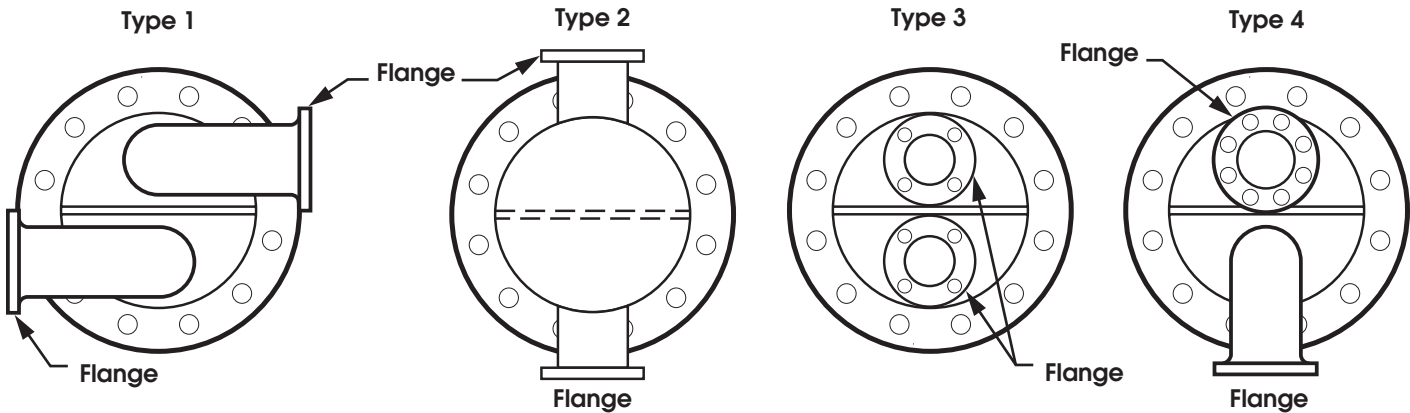
Fabricated or Cast Iron

Fabricated Steel Bonnet Head

Fabricated Steel Channel Head Flanged Inlet and Outlet



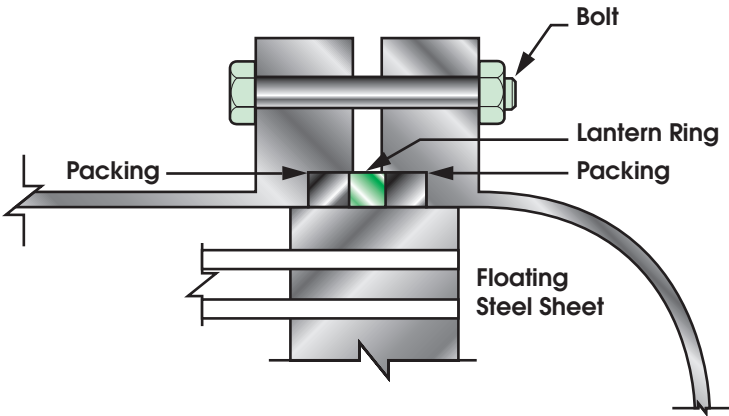
Fabricated Steel — Flanged Openings



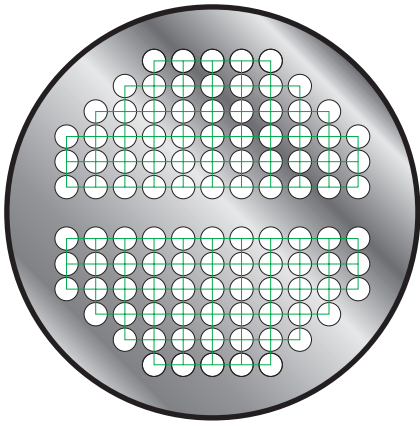
Cemline Heat Exchangers Details

Heat exchangers are manufactured in a variety of configurations. Listed below are some of the types manufactured by Cemline Corporation.

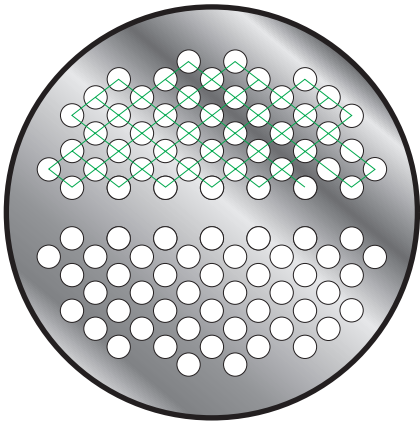
Floating Head Detail



Pitch Detail



Square Pitch



Triangular Pitch

Typical Cemline® Heat Exchangers

Cemline heat exchangers can be furnished in a variety of configurations. Shown below are three typical heat exchangers.

Floating Head Heat Exchanger



U-Bend with Flanged Openings — Shell and Head



U-Bend, 4 Pass, Angle Flanged — Openings on Head



Additional Heat Exchanger styles

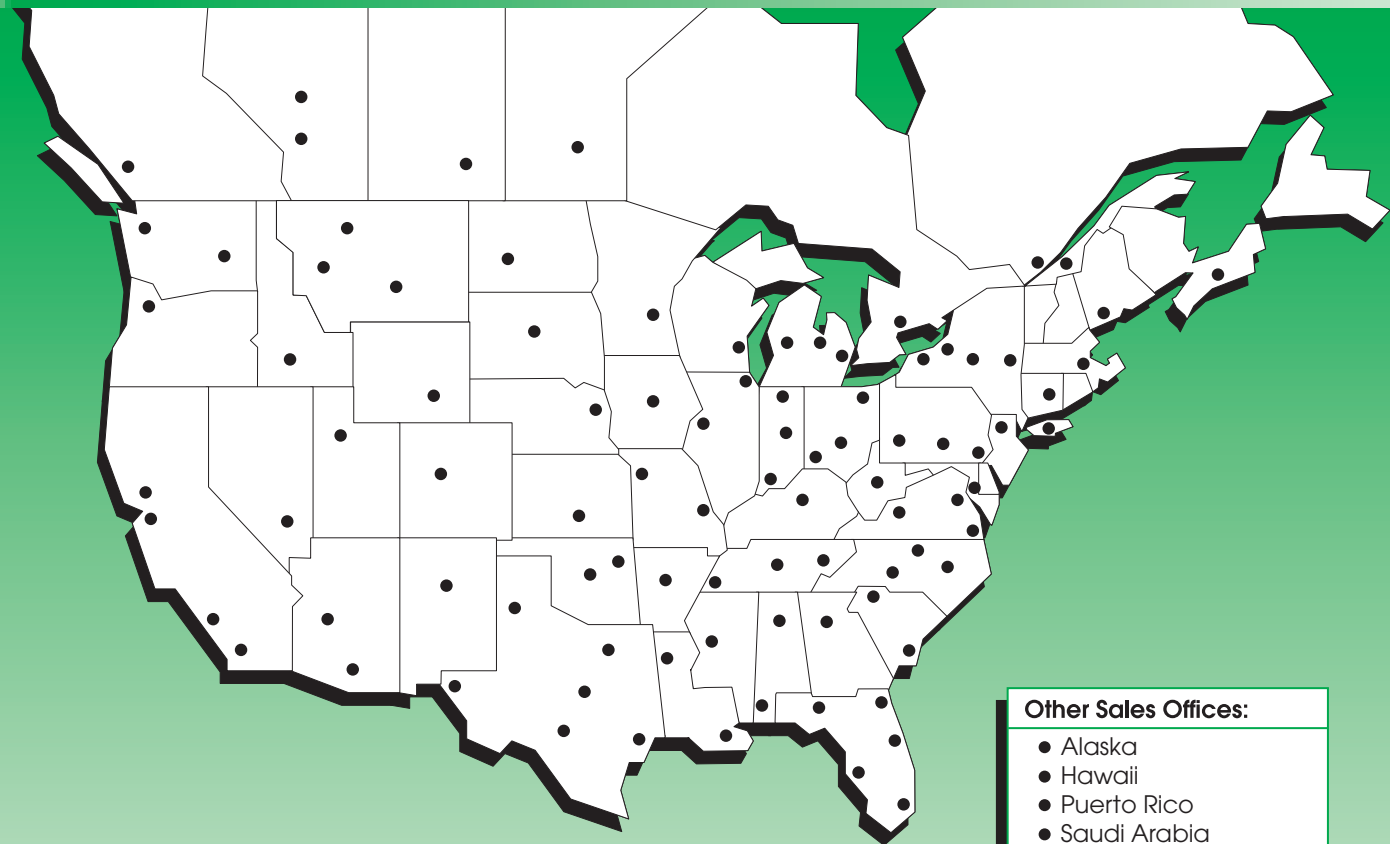




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