

SECTION 15710 - HEAT EXCHANGERS

PART 1 - GENERAL

SUMMARY

This Section includes shell-and-tube heat exchangers and plate heat exchangers for HVAC applications.

SUBMITTALS

Product Data: Include rated capacities, furnished specialties, and accessories for each unit indicated. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

Operation and maintenance data.

QUALITY ASSURANCE

ASME Compliance: Fabricate and label heat exchangers to comply with ASME Boiler and Pressure Vessel Code: Section VIII, "Pressure Vessels," Division 1.

PART 2 - PRODUCTS

MANUFACTURERS

In other Part 2 articles where subparagraphs titles below introduce lists, the following requirements apply for product selection:

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the manufacturers specified.

SHELL-AND-TUBE HEAT EXCHANGER

Manufacturers:

Amtrol, Inc.  
Armstrong Fluid Handling; Div. of Armstrong International, Inc.  
Baltimore Aircoil Co.  
Dunham-Bush, Inc.  
ITT Fluid Handling; Div. of ITT Fluid Technology Corp.  
Patterson-Kelley Co.; Div. of Harsco Corp.  
Taco, Inc.

Configuration: Two pass, U-tube.

Shell and Head Materials: Steel shell and cast iron head.

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Tube and Tube Sheet Materials: Seamless, 3/4-inch (20-mm) OD copper tubes with steel tube sheets.

PART 3 - EXECUTION

INSTALLATION

Install shell-and-tube heat exchangers on saddle supports with provisions to drain shell.

Maintain manufacturer's recommended clearances for service and maintenance. Install piping connections to allow service and maintenance of heat exchangers.

CONNECTIONS

Install piping with threaded or flanged connections at heat exchangers.

Install shutoff valves at heat exchanger inlet and outlet connections.

Install relief valves on heat exchanger heated-fluid connection.

Install vacuum breaker at heat exchanger steam inlet connection.

END OF SECTION 15710