

SECTION 23 57 00 - HEAT EXCHANGERS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Provide HVAC Equipment as specified herein and shown on the Drawings.
- B. Equipment capacity and size shall be as indicated on the Drawings.
- C. Related Work: The requirements of Section 23 05 00, Common HVAC Materials and Methods, also apply to this section.

1.2 QUALITY ASSURANCE

- A. Air Handling Equipment: Rated in accordance with AMCA certified rating procedures and AMCA labeled.
- B. Air Conditioning and Refrigeration Equipment Rating: Rated in accordance with ARI certified rating procedures and ARI labeled.

1.3 SUBMITTALS

- A. Submit catalog data, construction details and performance characteristics for each air handling unit.
- B. Submit operating and maintenance data.

PART 2 - PRODUCTS

2.1 HOT WATER HEATING COILS

- A. Non-ferrous extended surface, counterflow serpentine type with heavy gauge galvanized steel casing suitable for mounting required. Assembled with 5/8" OD x 0.020" thick copper tubes brazed to copper headers with drain and vent tappings. Copper or aluminum fins mechanically bonded to tubes and spaced a maximum of 12 fins per inch. Construction shall allow for expansion and contraction without developing leaks. Permanently label each coil in accessible location with all operating parameters. Trane, Carrier, McQuay, Pace, Heatcraft, Colmac, or by approved air handling unit manufacturer. Equip heat reclaim coil on the heat recovery side with face and bypass damper section and contract for operation with glycol antifreeze solution.

2.2 HEAT EXCHANGER

- A. Plate and frame style heat exchanger. Plate material to be 0.0157 inch AISI 304 stainless steel with Nitrile gasket material rated for at least 150 psi and 250° F. See drawings for capacity. Bell & Gossett or approved. Unit shall be rated for 45% glycol.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install and arrange equipment as shown on the Drawings and as recommended by the equipment manufacturer.
- B. Piping: Refer to applicable sections for piping, valves, insulation, painting, etc.

END OF SECTION 23 57 00