

SECTION 238126 - CONDENSING UNITS: AIR COOLED HERMETIC

PART 1 - GENERAL

1.1 SCOPE

- A. Provide packaged hermetic air cooled condensing units of the capacity, operating characteristics, and electrical characteristics indicated on drawings and specified herein.

1.2 SHOP DRAWINGS

- A. Refer to Section entitled "General Mechanical Provisions". Include complete data on: unit dimensions; minimum operating and service clearances; capacities and rating conditions; maximum operating weights; power consumption; power and control wiring (both factory and field); and operating and safety controls.

1.3 MANUFACTURER

- A. Design Basis: Trane TTA Series or as otherwise scheduled.
- B. Acceptable: Carrier, Trane, Weatherking, York or equal.

1.4 COMPATIBILITY

- A. Each unit must be compatible with evaporator coil arrangements and associated controls to which connected equipment is interfaced.

PART 2 - PRODUCTS

2.1 FRAME

- A. Unit shall be completely factory assembled with all components mounted on a steel frame.

2.2 FINISH

- A. The frame, all structural members, and sheet metal panels shall be properly cleaned, painted with a zinc rich primer, and finished with alkyd enamel.

2.3 COMPRESSOR AND MOTOR

- A. The unit compressor(s) shall be of the hermetic reciprocating type with crankcase heater.
- B. Motor shall be suction gas cooled and sized for continuous operation over the full range of operating conditions indicated and with voltage variations indicated in the National Electric Code. Motor running protection shall be provided by temperature sensors embedded in the motor windings and by thermal overload relays.

2.4 CONDENSER

- A. Seamless copper tubes with mechanically bonded aluminum fins.

2.5 CONDENSER FANS

- A. Direct drive, propeller type with fan guards. Fan motors shall have thermal overload relays for running protection.

2.6 FACTORY PREWIRING

- A. Unit shall be factory wired with power connections brought out to a single set of terminal lugs for field connection.

PART 3 - EXECUTION

3.1 UNIT PLACEMENT

- A. The unit location shall be essentially as shown on drawings; however, actual placement shall be verified using field measurements and data relating to the equipment approved for actual installation on this project.

3.2 COORDINATION

- A. Refer to Sections describing refrigerant piping systems and air handling units with DX refrigerant coils. Provide all piping, hangers, supports, valves, and specialty items as required for a complete and operable system.

3.3 VIBRATION CONTROL

- A. Refer to Section entitled "Vibration Isolation" for vibration control.

3.4 TEST AND BALANCE

- A. Refer to Sections describing tests and balancing.

END OF SECTION 238126