

## **SECTION 15650 - HEATING VENTILATING AND AIR CONDITIONING**

### **PART 1 - GENERAL**

#### **1.01 ITEMS INCLUDED:**

- A. Air Conditioning Equipment, controls etc.

#### **1.02 RELATED WORK:**

- A. Section 15010 - General Provisions - Mechanical.
- B. Section 15100 - Basic Materials and Methods - Mechanical.
- C. Section 15800 - Air Distribution.
- D. Section 15180 - Insulation.
- E. Division 16 - Electrical.

#### **1.03 SUBMITTALS:**

- A. See Section 01340 and Section 15010 - General Provisions - Mechanical.

### **PART 2 - PRODUCTS**

#### **2.01 HEATING & AIR CONDITIONING EQUIPMENT:**

- A. Air handling units equal to that specified on the drawings.
  - 5. Filters shall be 1" throw-away, unless noted otherwise on drawings.
  - 6. Evaporator shall have copper tubes with aluminum fins with R-22 factory mounted refrigerant controls, condensate drain and drain pan. Units shall be as scheduled on the drawings.
- B. Air Cooled Condensing Units:
  - 1. Air cooled condenser-compressor units shall be provided with factory recommended starting devices, crankcase heaters and condensing pressure control devices so that units may be operated at 32 degrees F. outdoor temperature. Controls shall be factory wired and located in a separate section of the unit. Units shall have safety devices consisting of high and low pressure stats and compressor and condenser fan motor overload devices.
  - 2. Units shall operate on pump down control, or in a method recommended by the manufacturer of the respective unit. Pressure control shall be provided by the unit manufacturer.
  - 3. Coordinate necessary wiring interlocks with temperature controls sub-contractor for inclusion in working diagrams. Units shall be provided with filter dryer, sight glass, moisture indicating devices and hard start kits.
  - 4. Units shall be suitable for indicated type installation and shall be as scheduled on the drawings.

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### **PART 3 - EXECUTION**

#### **3.01 GENERAL:**

- A. See Section 15100, Basic Materials and Methods - Mechanical.
- B. Equipment shall be installed, complete with accessories, in strict accordance with manufacturer's written instructions.
- C. Refrigerant pipe sizes shall be as directed by equipment manufacturer, with consideration given to length of run and lift.
- D. Necessary, disconnect switches, motor starters, and control devices shall be provided and properly installed.

#### **3.03 EQUIPMENT TESTING:**

- A. Upon completion of installation, test operate all equipment.

**END OF SECTION 15650**