

- (a) Capillary tube or flow control/check valve refrigerant control, unless TXV valve is recommended for application by equipment manufacturer.
  - 3) 7-1/2 to 20 tons:
    - (a) TXV valve refrigerant control.
    - (b) Evaporator defrost control for low evaporator temperatures to prevent compressor slugging.
- 5. Filters
  - a. 1-1/2 to 5 tons: Section with filter guides, access doors for face loading. 1" deep disposable flat filters.
  - b. 7-1/2 to 20 tons: Section with filter guides, access doors from both sides, for side loading with gaskets. 2" pleated filters.
- 6. Condensate Piping and Secondary Drain Pan
  - a. Condensate piping shall be copper or Schedule 40 PVC. All condensate piping within building shall be insulated with a minimum of 1/2" Armaflex unless otherwise specified.
  - b. Secondary drain pans shall be fabricated out of a single sheet of 24 gauge galvanized sheet metal to form a 1-1/2" deep (minimum) seamless pan with formed and sealed corners.
- 7. Equipment Supports
  - a. Equipment supports shall be sized and designed to support the equipment and shall be fabricated from galvanized steel.
  - b. See submittal requirements in 15001.
- B. OUTDOOR UNITS
  - 1. General
    - a. Units: Self-contained, packaged, factory assembled and pre-wired units suitable for outdoor use consisting of cabinet, compressors, condensing coil and fans, integral sub-cooling coil, controls, liquid receiver, charging valves.
    - b. Construction and Ratings: In accordance with ARI 210/240. Testing shall be in accordance with ASHRAE Std 23.
    - c. Performance Ratings: Energy Efficiency Rating (EER) (and Coefficient of Performance (COP) for Heat Pumps) not less than prescribed by ASHRAE Std 90.1, or the Florida Energy Code.
  - 2. Casing
    - a. House components in welded steel frame with galvanized steel panels with weather resistant, baked enamel finish. Surfaces shall be satisfactorily tested to a 500 hour salt spray test. Provide drain holes for elimination of rain.
    - b. Mount starters, disconnects, and controls in weatherproof panel provided with full opening access doors.
    - c. Provide removable access doors or panels with quick fasteners or piano hinges.
  - 3. Coils