

DX SPLIT SYSTEMS

(Small Light Commercial / Residential 2-5 Tons, Direct Drive Multi-Speed Evaporator Fan, TXV Ref. Metering Device, Scroll Compressors)

- A. Each system shall have the capacities, SEER rating, and configuration as listed in the schedule on the drawings. The outdoor and indoor unit shall be UL listed.
- B. Fan section enclosure shall be insulated and constructed of galvanized steel, bonderized and finished with baked enamel. The multi-speed direct drive fan motor shall be permanently lubricated, have internal overload protection, be resiliently mounted, and statically and dynamically balanced. Fan-motor assembly shall slide out for service. Fan section shall have single-point power connection for heater and blower. Reversible filter rack shall have duct connection flanges and be equipped with permanent-type filter that slides out for maintenance.
- C. Cooling coil shall be constructed with aluminum plate fins mechanically bonded to non-ferrous tubing with all joints brazed. Coils be equipped with refrigerant line fittings which permit mechanical connections. Refrigerant circuit shall be controlled by a factory-installed, non-bleed, thermal-expansion valve. Flow control metering/check-valves will not be permitted. Coil casing shall be insulated and constructed of galvanized steel, bonderized and finished with baked enamel.
- D. Electric heater shall be insulated and have large front service access door. Heating elements shall be sequenced on and off for multi-stage operation as scheduled on the drawings. Heater shall be equipped with both thermal and current overload devices, and the required heating and cooling system controls, including control circuit 24-volt transformer.
- E. Compressor shall be of the welded-hermetic scroll type with internal vibration isolation and be covered with a shield of muffle operating sound. Reciprocating compressors will not be permitted. Compressor motor shall have both thermal and current-sensitive overload devices, internal high-pressure protection, high- and low-pressure cutout switches, liquid-line drier, multi-use liquid and suction line service valves, start capacitor and relay, crankcase heater and relay and a timer to prevent compressor rapid cycle.
- F. Condenser coil shall be of circular construction. Tubes shall be aluminum with mechanically bonded aluminum plate or spine fins. Coils shall be factory tested to withstand 2,000 pounds of pressure per square inch. The coil shall be protected on all four sides by louvered panels. Condenser fan shall be propeller-type, direct-driven, and arranged for vertical air discharge. Fan motor shall be factory lubricated, inherently protected and resiliently mounted and shall have high and low speeds.