SECTION 15781
PACKAGED ROOF TOP AIR CONDITIONING UNITS

2.2   UNIT CASING

    A.   Exterior surfaces of unit shall be phosphatized, zinc-coated steel (1.25 oz. per square foot minimum), with baked enamel finish.   Screws shall be coated with zinc-plus-zinc chromate and with neoprene washers where sealing is required.

    B.   Hinged access doors shall provide access to control components, filters, outside/return air dampers, evaporator coil, and supply and exhaust fan sections. Access doors and removable panels shall be double wall construction with 2 lb density insulati

overload protection. Motors shall be line voltage, and shall be equipped with rain shields to eliminate moisture.

F.   Low Ambient Operation: Standard refrigeration system shall operate to 35°F ambient.

2.5 AIR HANDLING SYSTEM

A.   Indoor air fan unit shall have two, double-inlet, forward-curved, centrifugal-type fans mounted on a common shaft. Fans shall be statically and dynamically balanced and tested at the factory. Supply fan shall test run in the unit as part of unit run test. Fan shaft shall be mounted on two, grease-lubricated ball bearings designed for 200,000 hours average life.

B.   Fan motor and fan assembly shall be mounted on common base to eliminate belt slippage at startup and to reduce unit vibration.

C.   Drives shall be adjustable, with OSHA guard. If belt drives are used, sheaves shall be cast iron, heavy-duty type. The v-belt shall be static free and sized for 150% of BHP. Motor bases shall be adjustable.

D.   All motors shall be high-efficiency type.

2.6 FILTERS

A.   Two-inch, high efficiency media filters shall fit in slide-in racks for ease of change-out and provide 35% efficiency by NBS dust spot test.

2.7 OUTSIDE AIR

A.   Standard low leak dampers with 1.5% leakage rate at ½" WG. Damper performance shall meet requirements of AMCA Test Standard 575.

B.   Outside air damper shall be automatically controlled for the outside quantities stipulated on the drawings.

C.   If applicable, for economizer control provide requiA.   Standavce
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