



VERTICAL DISCHARGE

AIR-COOLED CONDENSER 2-12 TON CAPACITY

The Air-Cooled Condenser (ACC) shall consist of Casing, Condenser Coil, and Direct-Drive Propeller Fan(s) driven by individual Fan Motor(s), Fan Guard and Mounting Legs. All fan motors shall be factory wired to a common electrical control box. The Air Cooled Condenser shall be arranged for Vertical Air Flow. The Condenser shall be of Dual System (Two Equal) Circuiting.

CASING

The condenser casing is fabricated from galvanized steel sheets divided in individual fan sections by full width baffles. Each fan section shall be separated by full width baffles to prevent bypass air. Structural support members, including coil support frame, motor and drive support, are galvanized steel for strength and corrosion resistance. Galvanized steel legs are provided for mounting unit for vertical discharge and having rigging holes for hoisting the unit into position. Note: Vibration isolators of the rubber and shear or spring type are to be provided and installed by others. Mounting legs are retracted for shipping purposes, and must be lowered in position for unit installation. The unit's electrical panel is inside an integral weatherproof section of the casing.

PROPELLER FAN

The direct drive fan blades shall be aluminum, and shall be protected by a heavy gauge, steel wire, zinc plated, epoxy coated fan guard. Each fan section shall be separated by full width baffles to prevent bypass air.

FAN MOTOR

The condenser's fan motor is a continuous air over design. The condenser motors shall have permanently lubricated sealed ball bearings, with inherent overload protection. Equipped with rain shield and die formed, galvanized steel supports are used for rigid mounting of the motor.

ELECTRICAL CONTROLS

Electrical controls, overload protection devices and service connection terminals are factory wired inside the integral electrical panel section of the casing. The electrical panel, incorporating all the fan actuators, terminal boards and Ambient T-stat(s) required to provide head pressure regulation.

DISCONNECT SWITCH

The manual disconnect switch shall be mounted in the high voltage section of the electrical panel. The Disconnect Switch shall be operational from the outside of the unit with the door closed. Access to the high voltage electric panel compartment can be obtained with the switch in the "OFF" position on.

LOW AMBIENT - FAN SPEED CONTROL

Air cooled condenser shall be provided with a VARI-SPEED PACKAGE FOR LOW AMBIENT DOWN TO -20°F: Consisting of factory supplied and field mounted and wired weatherproof control panel complete with fan cycling controls (multiple fan units) and one solid state pressure control. The field installed capillary sensors sense the highest head pressure of either operating compressor and control the variable speed fan on the air cooled condenser to properly maintain the head pressure. A single phase variable speed motor will be factory installed on the #1 fan of the condenser. The speed controller modulates air delivery in direct response to head pressure and maintain minimum head pressure required.

