



VERT-I-PAK SINGLE PACKAGED VERTICAL AIR CONDITIONERS

B-SERIES ENGINEERING SPECIFICATIONS

24,000 – 60,000 Btuh

All units shall be factory assembled, piped, wired and fully charged with R-22. Units shall be ETL listed and carry an ETL label. Units are approved for 0" clearance. All units shall be run-tested to check operation.

The basic unit cabinet shall not exceed 30" wide x 21" deep x 68" high for units through 36,000 Btuh; 38" wide x 28" deep x 68" high for 42,000 and 49,000 Btuh units and be 45" wide x 30 ½" deep x 77" high for 60,000 Btuh models. Units shall draw in outdoor air from an outdoor louver and shall exhaust air out the same louver or through a different louver as designed by the architect and approved by the factory. The chassis may be installed against an exterior wall by utilizing a Friedrich wall plenum, or located in an interior closet with outdoor air ducted to and from the unit to the exterior.

REFRIGERATION SYSTEM – The refrigeration system shall consist of a hermetically sealed scroll compressor that is externally mounted on vibration isolators; indoor and outdoor coils constructed of copper tubes and aluminum plate fins; and calibrated expansion devices. The coils shall be draw-through design to maximize heat transfer. The chassis will come with service valves installed that are accessible from the front of the unit. The system shall be built with a condensate disposal system consisting of internally trapped piping for both the evaporator and condenser coils. The piping shall exit the unit at a single ¾" I.D. PVC connection at the right side of the unit.

AIR HANDLING SECTION – Separate direct-drive motors shall drive the evaporator and condenser fans. The motors shall be split capacitor and permanently lubed. Conditioned air shall be directed vertically upward through a 1" min. duct flange on the top of the unit.

CONTROLS – The unit shall come from the factory ready to be hard wired to a 230/208V-1 Ph 60Hz, power supply. The chassis will have internal electrical connections (screws) for a standard 24-volt wall mounted thermostat. A 24-volt transformer shall be included and factory wired. The unit will be capable of supplying fresh air to the room through an internal damper operated by a lever on the front of the unit (right corner post).

GENERAL CONSTRUCTION – The unit shall be constructed of 20 gauge steel. It shall be insulated for thermal efficiency and noise reduction. The wall plenums shall be constructed of 18-gauge G90 zinc coated steel. It shall be prepared by a process where it is zinc phosphate pretreated and sealed with a chromate rinse, then powder coated for maximum coverage and protection. Factory supplied architectural louvers shall be fabricated from aluminum with non-adjustable louvers, set at a 30 degree angle, in the horizontal plane.

The unit shall have separate drain pans for both indoor and outdoor coils. These drain pans are to be internally connected and P-trapped to a central drain before it exits the cabinet.

All components of the unit, including compressor, indoor and outdoor coils, valves and electrical components are to be serviceable from the front of the unit.

The units shall be shipped standard with return air filter holder installed on the front of the chassis. The holder will accept a standard 1" fiberglass filter. As a factory ordered option the units may be equipped with either front or left-hand return air duct flanges. Optional return air grilles shall be available as a factory accessory, for installation on the front of the unit (in place of the filter holder).

WARRANTY – First year: parts on entire unit. Second through fifth years: compressor only. See Limited Warranty document for complete details.