



SPECIFICATIONS

STANDARD CABINET UNIT ONLY

The contractor shall furnish and install Beacon Morris Cabinet Unit Heaters as specified by engineer to meet or exceed job requirements. The Cabinet Unit Heaters will conform to the items listed below and will be certified under CSA/UL certification guidelines.

CABINETS:

All cabinets will be constructed with 18-gauge cold rolled steel, side panels and top. The front panel shall be furnished in 16-gauge cold rolled steel. It will have 1/2", 1-1/2 pound density insulation with a neoprene coated side in front of coil. The internal cabinet shall be furnished in 18-gauge galvanized steel. Adequate work area for installation of control valves or electrical equipment shall be provided on both sides of the internal cabinet. The cabinet shall be provided with a neutral eggshell baked powder prime coat as standard. Optional powder coated finish in designer colors, as selected from standard color selector will be provided as specified. All cabinets shall be supplied with adjustable rear mounting brackets which will provide adjustment to correct alignment of the unit at installation to non-square or out of true walls, joists, studs or surfaces. Floor mounted cabinet units will be provided with adjustable leveling legs (two each base leg) when specified.

COILS:

STANDARD ONE ROW – Coils will have 1/2" O.D. copper tubes that are mechanically expanded to the aluminum fins. All coil header joints are brazed. The coil assembly is submersion tested at factory at 250 PSI and is rated at a working pressure of 300 PSI. All units are designed so that field modifications can be made to reverse the coil position if required.

HIGH CAPACITY TWO ROW COIL – High Capacity, two row coil, option, as specified for hot water systems only, will have 1/2" O.D. copper tubes that are mechanically expanded to the aluminum fins. All coil header joints are brazed. The coil assembly is submersion tested at factory at 250 PSI and is rated at a working pressure of 300 PSI. All units are designed so that field modifications can be made to reverse the coil position if required.

COIL CONNECTIONS:

Coil connections provided will be 1-1/4" Nominal copper tube and will be factory installed for connecting on the left hand side of the unit. Available as specified for right hand connection.

ELECTRICAL:

All primary internal wiring shall be done at the factory. All units will be connected to electrical power to assure that all standard and optional electrical components operate as required at the factory prior to shipping.

MOTORS:

Standard PSC motors shall have integral thermal protection and start at 78% of rated voltage. PSC, High Static motors will be provided when specified and will be capable of operating in high static conditions up to 4 inches of water column. ECM and ECM high static motors provided as specified will have a solid state, digital control board and a 3 speed switch.

FANS:

Fan wheels will be centrifugal, forward curved, double width of nylon or electro galvanized steel. Fan housings shall be of formed galvanized sheet metal.

FILTERS:

All filters supplied as standard will be washable and reusable aluminum media with a 69% arrestance level. Filters shall be slide in type which will be secured into position with a cotter pin.

CABINETS, RECESSED WALL UNITS:

All recessed wall units shall be supplied with a wall seal assembly. The wall seal assembly will provide protection to the wall construction material. The wall seal will be supplied in an eggshell baked powder prime coat as standard. When specified, optional baked powder designer colors may be selected from the standard color selector.

CABINETS, CEILING MOUNT OR RECESSED UNITS:

All "C" and "RC" units shall be supplied with a hinged front panel. The multiple hinges shall provide full swing through 90°. A safety chain shall be provided as standard to prevent the face panel from swinging fully open accidentally. This chain must be easily detached to allow full access for servicing. All recessed ceiling units shall be supplied with a wall seal assembly. The wall seal assembly will provide protection to the wall or ceiling construction material. The wall seal will be supplied in an eggshell baked powder prime coat as standard. When specified, optional baked powder designer colors may be selected from the standard color selector. The variable speed control switch will be packaged and placed inside the unit. A wiring diagram will be included for field installation at a desired location.

OPTIONAL OUTSIDE AIR DAMPERS:

On specific units, optional outside air dampers will be provided when specified with either of the following:

1. Where noted 25% Manual outside air dampers shall be provided. A manually operated damper quadrant shall provide from 0% to 25% outside air through the use of a single blade damper.
2. Where noted 25% Motorized outside air dampers shall be provided. A synchronous motor (115/60/1) interlocked with the blower shall automatically open the outside air damper when blower starts. The single blade damper shall be adjustable from 0% to 25% outside air. When the blower stops or there is a loss of power, the damper shall return to the closed position. A damper override switch shall be provided to prevent damper operation when desired.