



CB Series



CONDENSING UNITS



Features:

- 2-5 Ton / 24-60 MBH Condensing Units
- High Efficiency, Two Step, R-410A Scroll Compressor
- Ultra-High Efficiency ECM Condenser Fan Motor
- Modulating Humidity Control; Controls Humidity Independent from Temperature
- Labeled Components for Quick and Easy Installation
- Labeled Controls Components with Color-Coded Wiring that Matches the Unit Wiring Diagram Included in the Controls Compartment
- Matching F1 Series and H2/V2 Series Air Handlers Available for a Complete Split System Solution
- ETL and ARI Listed
- Heat Pump or Cooling Only Operation

Application Flexibility
Minimizes Installation Time and Reduces Cost

○ High Efficiency
Heat Pump Option

○ Modulating
Dehumidification

○ Part Load
Capability

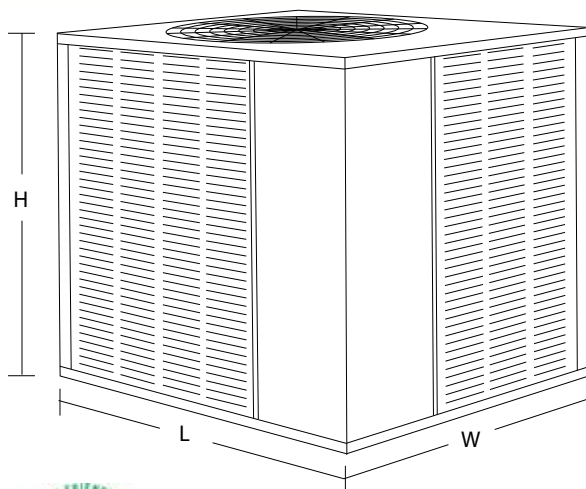
○ Quiet Operation

CB Series Condensing Units

AAON® CB Series condensing units, for residential and commercial application, boast the same benefits that customers have come to expect from other AAON® equipment: serviceability, quiet operation, reliability, high efficiency, durable construction, and a number of premier options which provide the equipment with the flexibility to suit a wide variety of job requirements.

Superior Features

- Cabinet is constructed of painted galvanized steel that surpasses a 1000 hour salt spray test to provide the unit with corrosion protection.
- Attractive painted louvered panels protect the condenser coil from damage and debris.
- Wrap-around, single row, enhanced fin condenser coil has no additional rows to trap dirt and debris and is easier to clean than units with multirow coils.
- Two step scroll compressor includes rubber isolation mounts to minimized vibration.
- Single easily removable panel provides access to the unit service compartment.
- Crankcase heaters to prevent liquid from settling in the compressor which extends the life of the unit.
- Non-ozone depleting R-410A refrigerant, which is unaffected by the refrigerant phase-out, is both environmentally friendly and maintainable.
- Refrigerant circuit contains automatic low pressure and manual reset high pressure safety cut-outs, suction and liquid line Schrader valves, and a full charge of refrigerant for up to 25' of line set.



CB Model	Size (Tons)	Width	Height	Length
024	2	31	39	36
036	3			
048	4	36	43	37
060	5			

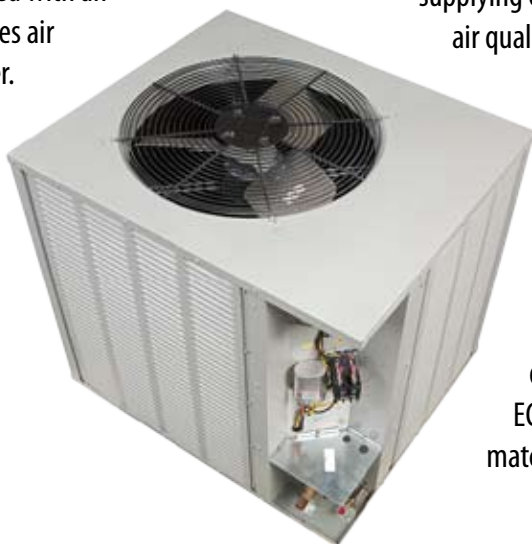
All dimensions are in inches. For use with R-410A only.



Quiet, Economical Performance

Premier Options

- Modulating hot gas reheat for energy efficient and comfortable dehumidification.
- External hot gas bypass provides freeze protection for the matching air handler's evaporator coil during light load conditions.
- Wired grille condenser coil guard option is available if protection provided by the louvered panels is not required.
- High density foam compressor sound suppression blanket to reduce radiated noise.
- Polymer e-coated or copper finned coils to extend the life of the coils and protect them in corrosive environments.
- Low ambient fan cycling option to allow cooling operation down to 35°F.
- 24V control circuit transformer option to prevent exceeding the capacity of the air handler's control circuit transformer.
- Optional commercial 5 year compressor warranty.
- Standard 5 and optional 10 year residential parts warranties, when matched with an F1 Series air handler.



Matching CB and F1, Air Conditioner Performance			
Condensing Unit	Air Handler	Nominal Capacity	SEER
CB-024	F1-024	24 MBH / 2 Tons	17.2
CB-036	F1-036	36 MBH / 3 Tons	15.5
CB-048	F1-048	48 MBH / 4 Tons	15.6
CB-060	F1-060	60 MBH / 5 Tons	14.6

Matching CB and F1, Heat Pump Performance				
Condensing Unit	Air Handler	Nominal Capacity	SEER	HSPF
CB-024	F1-024	24 MBH / 2 Tons	16.3	8.5
CB-036	F1-036	36 MBH / 3 Tons	14.8	8.5
CB-048	F1-048	48 MBH / 4 Tons	14.7	8.7
CB-060	F1-060	60 MBH / 5 Tons	14.4	8.3

Split System Heat Pump

Energy efficient heating option that allows a split system to be able to provide on demand cooling and heating with the refrigeration circuit. Option is available as a matched split system with a CB Series condensing unit and matching AAON heat pump air handler.

Split System Modulating Humidity Control

This premier option provides energy efficient dehumidification, even at low sensible heat loads, with modulating valves that reduce temperature swings. During the dehumidification mode of operation the system uses the valves to control the amount of reheat provided by the factory installed reheat coil, thus dehumidifying the air while at the same time supplying comfortable, room temperature air. Moisture related indoor air quality issues, such as mold growth, condensation, and structural deterioration, are minimized, or eliminated, by reducing the space humidity while enhancing occupant comfort.

Energy Efficient at Full and Part Load

The CB Series condensing unit features standard a two step compressor which provides two stages of capacity, 67% and 100%, for energy efficient part and full load operation. In addition, a factory installed and configured ultra-high efficiency ECM condenser fan motor is set up for two speed operation to match with the capacity steps of the compressor.

CB Series
Condensing Units

AAON Environmentally Friendly HVAC Product Family

Customer Commitment – AAON encourages environmentally responsible design by incorporating many energy saving features into our superior heating and cooling products. In addition to energy efficiency, AAON also offers environmentally friendly R-410A refrigerant capability in all our cooling and heat pump equipment. As countries throughout the world phase out CFC and HCFC refrigerants, R-410A is becoming the global standard and AAON is leading the way!



Rooftop Units



Condensing Units



Air-Cooled or Evaporative-Cooled Chiller



Boiler



Outdoor Air Handling Units



Indoor Air Handling Units



Custom Indoor or Outdoor Air Handling Units



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