



# F1 Series



## VERTICAL & MULTI-POSITION INDOOR AIR HANDLERS



### Features:

- 800-2000 CFM
- Vertical Model for Upflow Applications and Multi-position Model for Either Upflow or Horizontal Applications
- R-410A DX Cooling
- Electric, Hot Water, or Heat Pump Heating
- Modulating Humidity Control
- Ultra-High Efficiency ECM Supply Blower Motor
- 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 CB Series Condensing Units Available for a Complete Split System Solution
- ETL and ARI Listed



Application Flexibility  
Minimizes Installation Time and Reduces Cost

○ High Efficiency  
Heat Pump Option

○ Modulating  
Dehumidification

○ Part Load  
Capability

○ Quiet Operation

# F1 Series Indoor Air Handlers

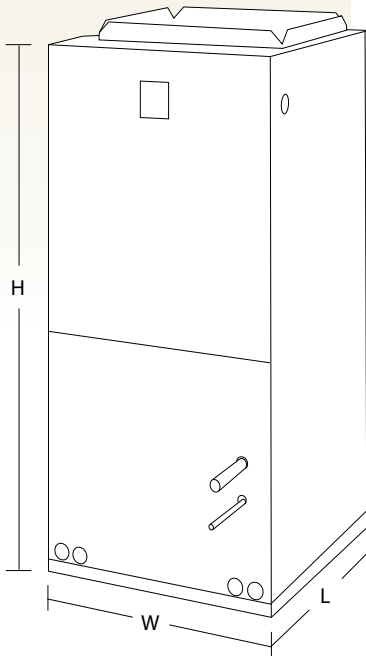
AAON® F1 Series indoor air handlers can be used for residential and light commercial applications. The F1 Series air handler and AAON® CB Series condensing unit have been designed and engineered to work together as a high efficiency system. They can be matched to create a high efficiency cooling split system air conditioner or high efficiency heating and cooling split system heat pump.

## Superior Features

- Direct drive forward curved supply blower with ECM motor provides quiet and energy efficient airflow.
- Galvanized steel construction with foil faced insulation and a removable double wall service compartment panel allow the unit to be easily cleaned and maintained.
- Sloped composite drain pan, with drain connections available on either side of the unit, resists corrosion and makes the unit easy to install.
- Factory installed TXV reduces start up time and performs more efficiently than a fixed orifice design.
- Non-ozone depleting R-410A refrigerant, which is unaffected by the refrigerant phase-out, is both environmentally friendly and maintainable.
- Filter rack with quickly replaceable 1" fiberglass air filter.

## Premier Options

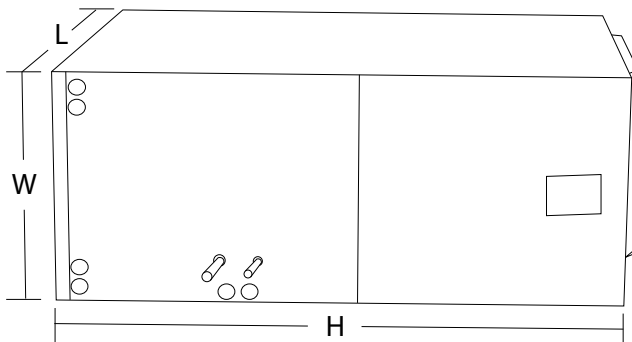
- Electric, hot water, or heat pump heat options provide heating design flexibility.
- Modulating hot gas reheat for energy efficient and comfortable dehumidification.
- Vertical (Upflow) and Multi-Position (Upflow or Horizontal) options for application flexibility.
- Painted external cabinet finish to provide the unit with corrosion resistance and longer life.
- Standard 5 and optional 10 year residential parts warranties, when matched with a CB Series condensing unit.



F1 Model	Nominal CFM	Width	Height*	Length
024	800	21	51	21
036	1,200			
048	1,600	25	59	22
060	2,000			

All dimensions are in inches.

\* Add 6" for Modulating Humidity Control or 8" for Hot Water Coils.



# Vertical & Multi-Position



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 F1 Series 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.

## ECM Supply Blower Motor

Factory installed and configured ECM motor for each F1 Series model and can be field configured and optimized based on the local climate and application. ECM motor technology is both reliable and ultra-high efficiency, dramatically increasing the system's SEER ratings. The electronically controlled motor quietly varies the fan speed to maintain air volume, provide exceptional temperature control, and consistent comfort.



**F1 Series**  
Indoor Air Handlers

# 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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