



# F1 Series



## VERTICAL & MULTI-POSITION INDOOR AIR HANDLING UNITS



### Features:

- 800-2,000 cfm
- Vertical Model for Upflow Applications and Multi-Position Model for Either Upflow or Horizontal Applications
- High Efficiency R-410A DX Cooling
- Electric, Hot Water, or Heat Pump Heating
- Modulating Hot Gas Reheat Humidity Control
- Ultra-High Efficiency Variable Speed ECM Driven Supply Fan
- 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 and CF Series Condensing Units Available for a Complete Split System Solution
- ETL and AHRI 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

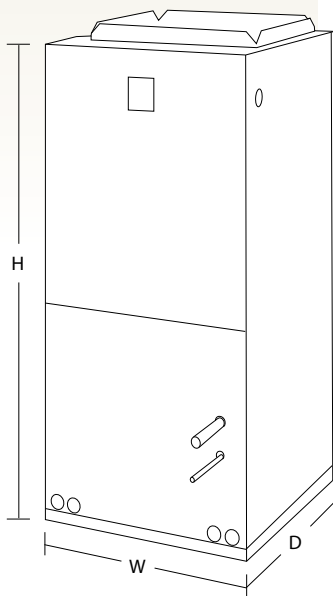
AAON F1 Series indoor air handling units can be used for residential and light commercial applications. The F1 Series air handling unit and AAON CB Series condensing unit have been designed and engineered to work together as a high efficiency system. They can be matched to create a high efficiency cooling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

### Superior Features

- Direct drive forward curved variable speed ECM driven supply fan provides quiet and energy efficient airflow.
- Galvanized steel construction with foil faced insulation and a removable 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.
- Filter rack with quickly replaceable 1" fiberglass air filter.

### Premier Options

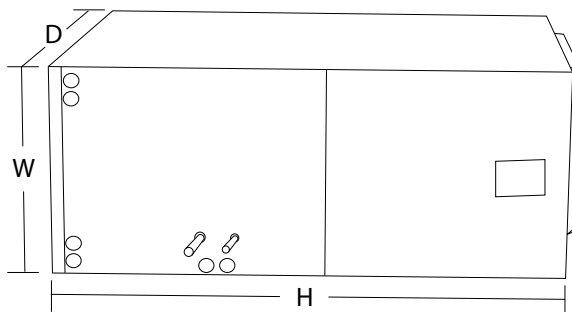
- Electric, hot water, or heat pump heat options provide heating design flexibility.
- Modulating hot gas reheat humidity control for energy efficient and comfortable dehumidification.
- Vertical (Upflow) and Multi-Position (Upflow or Horizontal) options for application flexibility.
- 2,500 hour salt spray tested exterior corrosion protection
- Painted external cabinet finish to provide the unit with corrosion resistance and longer life.



F1 Model	Nominal cfm	Width	Height*	Depth
024	800	22	51	21
036	1,200			
048	1,600	26	59	22
060	2,000			

All dimensions are in inches.

\*Dimensions may vary depending on options selected



# Vertical & Multi-Position



Vertical Configuration

Matching CB and F1, Air Conditioner Performance			
Condensing Unit	Air Handling Unit	Nominal Capacity	SEER/EER
CB-024	F1-024	24 MBH / 2 tons	Up to 17.30 SEER/ Up to 13.80 EER
CB-036	F1-036	36 MBH / 3 tons	
CB-048	F1-048	48 MBH / 4 tons	
CB-060	F1-060	60 MBH / 5 tons	

Matching CB and F1, Heat Pump Performance				
Condensing Unit	Air Handling Unit	Nominal Capacity	SEER/EER	HSPF
CB-024	F1-024	24 MBH / 2 tons	Up to 16.0 SEER/ Up to 13.05 EER	Up to 9.6
CB-036	F1-036	36 MBH / 3 tons		
CB-048	F1-048	48 MBH / 4 tons		
CB-060	F1-060	60 MBH / 5 tons		

## 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 an F1 Series air handling unit and matching CB or CF Series condensing unit

## Split System Modulating Hot Gas Reheat 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.

## Variable Speed ECM Driven Supply Fan

Factory installed and configured variable speed ECM driven supply fan for each F1 Series model and can be field configured and optimized based on the local climate and application. ECM 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 and provide exceptional temperature control for consistent comfort.



Multi-Position Configuration with Modulating Hot Gas Reheat

# AAON Environmentally Friendly HVAC Product Family

**Custom & Cataloged  
Air Handling Units** ■.....  
(800-200,000+ cfm)

**Condensers & Condensing Units** ■.....  
(2-230 tons)

**Chillers (Air-Cooled &  
Evaporative-Cooled)** ■.....  
(4-540 tons)

**Rooftop Units** ■.....  
(2-240 tons)

**Outdoor Equipment Rooms** ■.....  
(Chillers, Boilers & Pumps)

**Self-Contained Units** ■.....  
(3-70 tons)

**Residential Systems** ■.....  
(2-5 tons)

**Geothermal & WSHP Units** ■.....  
(2-230 tons)

**Air-Source Heat Pumps** ■.....  
(2-230 tons)

**Heating and Cooling Coils** ■.....  
(Booster, Hydronic, & DX)

**Fluid Coolers** ■.....  
(50-450 tons)

**Heating and Cooling** *for...*

**Auditoriums**  
**Convenience Stores**  
**Health Clubs**  
**Healthcare Facilities**  
**Homes**  
**Lodgings**  
**Manufacturing**  
**Museums & Libraries**  
**Natatoriums**  
**Office Buildings**  
**Restaurants**  
**Retail Stores**  
**Schools**  
**Supermarkets**



**Defining Quality. Building Comfort.**

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