

F Series - Fluid Coils

1/4 to 30 tons

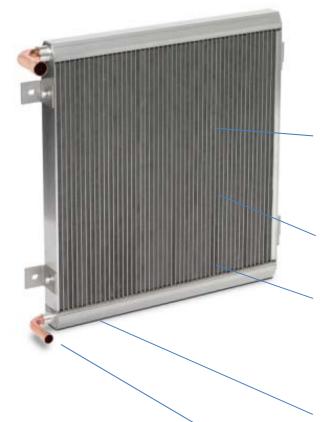


For: Fluid Coolers Chilled Water Coils Hot Water Coils Special Fluids Gases

Product Guide



MicroChannel Features (F Series)



Custom & Standard Sizes

Flexibility and variable dimensions are tailored to our OEM customer needs using MicroChannelSELECT Software. Custom and Quick Ship sizes are available from as small as 4"x4" to over 80"x144". Capacities range from 1/4 tons to over 30 tons.

Easy OEM Mounting

The coil itself is a robust frame that provides air tight flush mounting, thereby eliminating unnecessary components and air bypass. Optional "L" brackets, ¼"-20 studs or ¼"-20 flush nuts are available for easy mounting.

High Performance Fins

A state of the art louvered fin design provides low airside pressure drop and high heat transfer.

Vertical MicroChannel Tubes

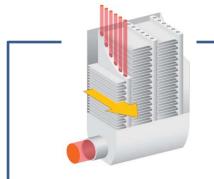
EVAPCO Alcoil's patented innovation incorporates vertical tubes that enhance fluid heat transfer, ensure predictable performance and low pressure drop. Tube wall thickness are greater than most automotive and import MicroChannel designs to assure long life operation.

Low Pressure Drop Headers

Unlike any HVAC/R coil, all units have ultra low pressure drop in the headers. This unique feature allows the coil to perform well many demanding applications.

Connections and More

Heat exchangers are available with MPT connections, copper sweat connections and custom orientations.



EVAPCO Alcoil's MicroChannel Coils are based on a "Next Generation" design that combines high performance flat tubes, state of the art airside fins and low PD headers. The tubes have numerous mini-ports that enhance fluid side performance, while the Airside achieves closer approach temperatures and lower airside pressure drops The end result is higher overall heat transfer performance,



EVAPCO Alcoil's F Series is a multi-purpose coil designed for fluid to air applications, dry coolers, chilled water coils, heating coils, flooded and pumped loop evaporators, gas cooling/heating, special fluid heating/cooling and other applications. It is available as a 1.25V model and 1.25LV extra large header version. These two versions can be configured as F, 2F and 3F sizes.

The F Series differs from the C (condenser) and B Series in that it has full flow pass-through and has application versatility in Medium to High Fluid flow rate applications. Designed with a low pressure drop tube, the F Series has high performance, while rated at 300psig working pressure.

F Models



F Models are Single "Module" models.



w/ Elbow Connections at 3 o'clockw/ LBrackets

2F & 3F Models

"Multi-Module" versions are designated as 2F & 3F models. These models are typical for larger capacity coils and specialty coils, depending on actual design conditions, type refrigerant or gas, air flow rate and target performance.

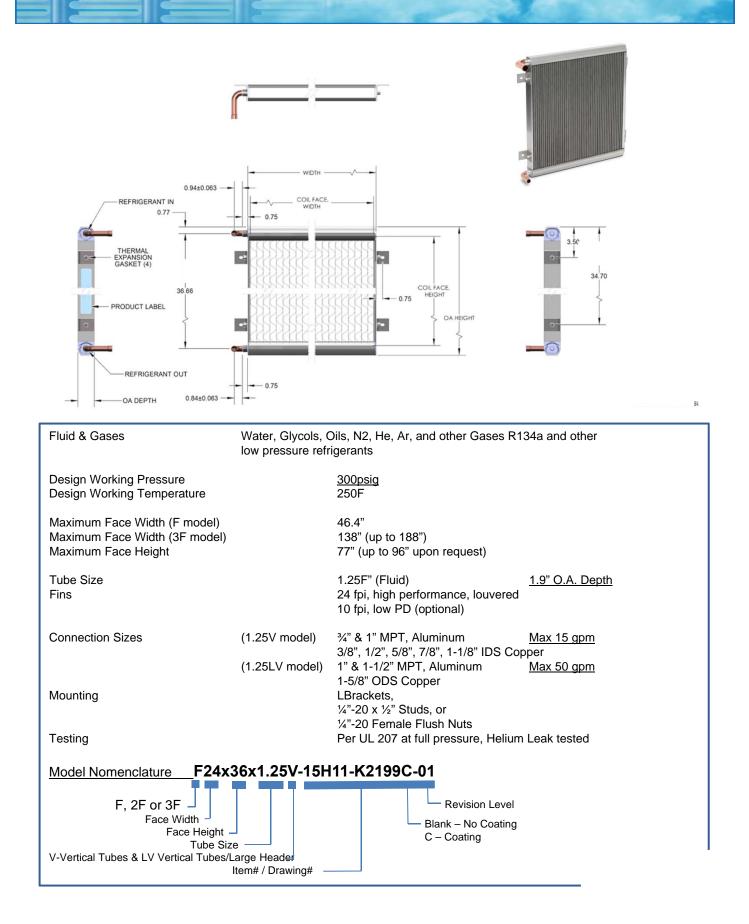


w/ Elbow Connections w/ LBrackets



w/ Elbow Connections w/ LBrackets

F Series – Multi-Purpose Fluid Coil





All F Series coils have options for EndCap connections for easy packaging, piping and fit-up. Standard MPT, Male Pipe Thread connections are available and including copper connections shown below. All connections options are available using MicroChannelSELECT[™] software.



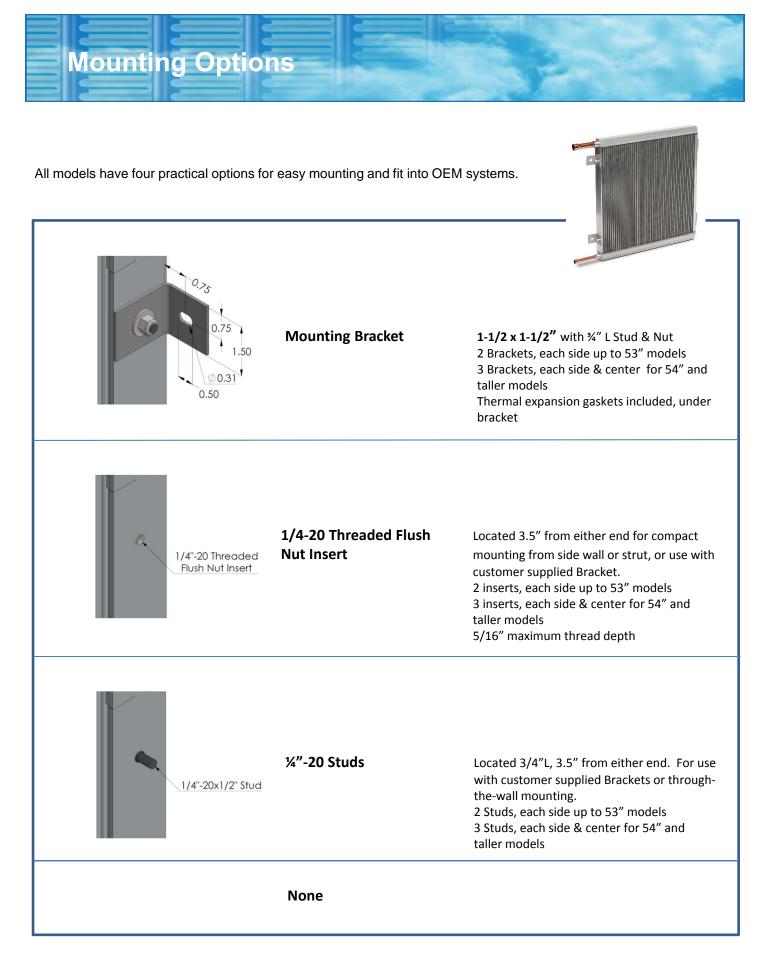
EndCap Connections

3/4" Aluminum MPT, & 1" Aluminum MPT, 3/8", 1/2", 5/8", 7/8", & 1-1/8" IDS Copper, 1.25V Models 1" Aluminum MPT, & 1-1/2" Aluminum MPT, 1-5/8 ODS Copper, 1.25LV Models Location Same Side Connections (std) **Opposite Side Connections** Std **Straight Copper** Same Side Connections (std) **Copper Elbow** Same Side Connections (std) 3 o'clock, 6 o'clock, 9 o'clock, 12 o'clock 3 o'clock (Std) **Opposite Side Connections** Custom angles (w/ volume production) 6 o'clock Aluminum MPT Same Side Connections (std) 9 o'clock 1.25V - 3/4" & 1" Stainless Steel or Carbon Steel Pipe, Butt Weld **Specials** 12 o'clock 1.25LV - 1" & 1-1/2" Stainless Steel or Carbon Steel Pipe, Butt Weld

Face Connections

Face Connections are ideal for compact packaging where dimensions and space are critical. Standard location is Left side on the headers. Optional locations are header center or right side of headers. Straight and elbow connections, up to 7/8" IDS are available.

| 1.25V Models 1.25LV Models | 3/8",1/2", 5/8", 7/8" ID Solder Not available | | | | |
|-------------------------------|--|--------------|--------|-------|--|
| Location | Left, Same Side (std), Center Right Opposite Sides, Left/Right, Right/Left | NETRODANT IN | | | |
| Copper Straight (Std) | Same side (Std) | | | | |
| Copper Elbow | 3 o'clock, 6 o'clock, 9 o'clock, 12 o'clock Opposite Side Connections Custom angles (w/ volume production) | Left (Std) | Center | Right | |
| Aluminum MPT Specials | Not Available Not Available | | | | |





EVAPCO Alcoil has a full line of MicroChannel coil models for cooling and heat rejection for HVAC/R systems for R410a, R134a, R404a,, R717, and other refrigerants. Water and Glycol fluid models are available as both cooling coils and heating coils. Model sizes as small as 3"x 3" to 80" x 144" size.

Condensers

1/2 to 40 tons

EVAPCO Alcoil manufactures a full range of refrigerant condensers from ½ ton to 40 tons for the HVAC/R industry, rated for 450 psig and 650 psig applications. The C Series Condenser is a robust design with built-in mini-receiver and numerous design options.

Evaporator/Heat Pump

1/2 to 30 tons

E Series Evaporator and HP Series Heat Pump represent leading edge technology as a direct expansion (DX) cooling coil and/or reverse cycle heat pump coil. With a built-in refrigerant distributor and integrally high water condensate shedding, the E and HP Series provide high performance with all the advantages of MicroChannel technology.

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Fluid Coils

up to 50 gpm

For water and glycol systems, free cooling, heat recovery and other applications, EVAPCO Alcoil manufactures a high performance MicroChannel specifically for fluid to air featuring advanced water shedding as a cooling coil or high performance as a heating or cooling coil. Rated for 300psig.

Specialty Coils

up to 40 tons

EVAPCO Alcoil can configure microchannel coils for other required HVAC/R applications, including:

Reheat & Desuperheater Coils Flooded & Pumped Loop Evaporators. Subcoolers

MicroCoils[™]

up to ³/₄ ton



For electronics, medical, computer and small appliance products, EVAPCO Alcoil has a family of MicroCoils[™] as condensers, evaporators and fluid coils. The MicroCoil[™] is lightweight and ultra small for specialty products from 20 to 2000 watts.

EVAPCO Alcoil products manufactured under Patent 8,662,148 and others pending in the U.S., Patents pending in other countries.





| Sales Support | | |
|---|---|--|
| EVAPCO Alcoil serves the U.S., Canada and Mexico with regional Sales Engineers, Applications Engineers and HDQ personnel to assist OEM customers with product selection, applications, and production delivery. | | |
| Shipping is via Freight Carriers or UPS. Freight Pre-paid or Freight Collect. | | |
| All Prices are FOB, York, Pennsylvania, USA | | |
| General Inquiries | Email: Info@evapco-alcoil.com | |
| Production Lead-times | 4 weeks typical; up to 6 weeks (seasonal) up to 6 weeks (large qty) | |
| Purchase Orders | Email to: Orders@evapco-alcoil.com | |
| Expedited Orders | Contact your regional Sales Engineer or the Factory | |



EVAPCO Alcoil is leading manufacturer of Airside Microchannel Coils for the HVAC/R and process industries. Located in York, Pennsylvania, EVAPCO Alcoil employees take Pride in Workmanship, Quality and Customer Service. We sincerely appreciate the opportunity to be of service.

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