



SUMMIT RESIDENTIAL COILS

Evaporator and Heat Pump Coils for the New construction and replacement market. Our coils are R410 Ready, and designed to fit most current and old style residential furnaces and air handlers.

ARI Rated and matched

All coils are ARI matched and rated 1.5 to 5 nominal tons

Uncased "A" Coils CA0
Cased Vertical "A" Coils CAW
Cased Multiposition "A" Coils CAM
Uncased chill water "A" coils CW

CHILLED WATER AND HOT WATER COILS

Coils are manufactured from seamless copper tubes mechanically expanded into drawn fin collars of the fin surface. Tubes are staggered in the direction of air flow. Coil circuiting in counter flow to direction of air flow.

Headers

Seamless copper tube with die formed holes that provide a parallel surface to the coil tube for strong brazed joints. Standard ¼" manual vent with brass Schrader valve. Automatic air vents are available as an option.

Connections

Sweat connections are standard with optional red brass schedule 40 male pipe thread (MPT).

Casing

Standard casings are manufactured from 18 ga. G-90 galvanized steel and include 1" flanges for ease of attaching and mounting.

Testing

All coils are leak tested under water at 500 PSIG of air and are suitable for operation at 400 PSIG.

Dedicated Horizontal "A" coils CD
Horizontal Slab coils CD
Commercial Coils 6, 8, and 10 Ton CA

DIRECT EXPANSION COILS

Coils are manufactured from seamless copper tubes mechanically expanded into drawn fin collars of the fin surface. Tubes are staggered in the direction of air flow. Coil circuiting in counter flow to direction of air flow.

Distributors

Brass liquid distributors are factory mounted using equal length tubes and circuit for equal refrigerant distribution to coil. Thermostatic expansion valves can be factory provided and mounted as an option.

Connections

Sweat connections are standard.

Casing

Standard casings are manufactured from 18 ga. G-90 galvanized steel and include 1" flanges for ease of attaching and mounting.

Testing

All coils are leak tested under water at 500 PSIG, dehydrated, charged with nitrogen and sealed prior to shipping.

SUNTHERM AIR HANDLERS

Residential, light commercial, and Multi-family Air Handlers, Fan Coils and Electric Furnaces

Multi Position

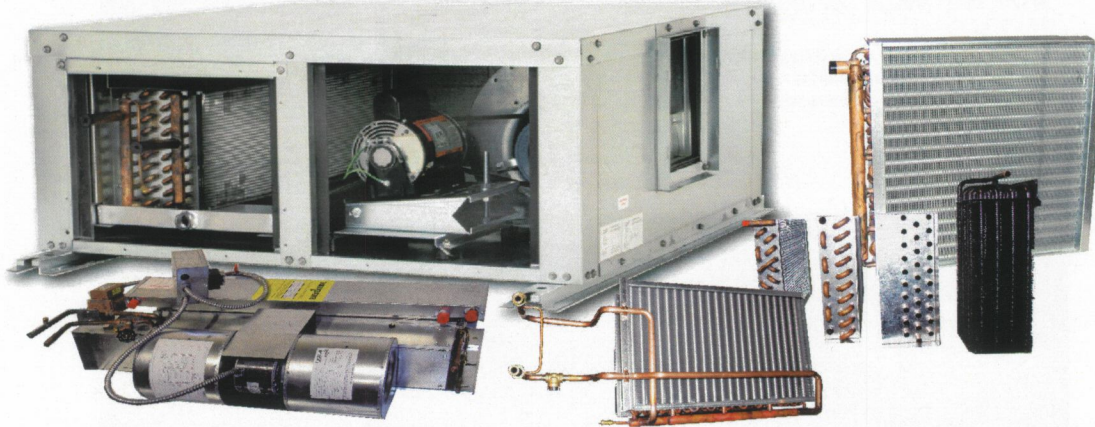
- 1.5 thru 5.0 Tons • ARI Certified coils, UL Certified
- 1" Foil faced insulation. • 1" throw away filter
- Factory Installed Time Delay Relay
- DX or Chill water cooling, Electric or hot water heating
- Electric Heat to 20KW, with standard 12KW+ circuit breakers available
- Factory or Field installed R22 or R410 Expansion Valves
- Up-flow, or horizontal right to left. Down-flow kit available for electric heat models
- 0" clearance to combustible materials
- Non-corrosive plastic drain pans that meet ASHRAE IAQ
- Drain Pans have primary and secondary drain connections
- Heavy gauge embossed galvanized steel substrate, with top and front painted neutral grey
- 208/230/1 Electric Heat Models, 115/1 Hydronic heat modules

Dedicated Vertical/Wall Mount

- 1.5 thru 3.0 Tons • ARI Certified coils, UL Certified
- 1" Foil faced insulation. • 1" throw away filter
- DX or Chill water cooling, Electric or hot water heating
- Vertical design, recessed "in the wall" or closet mounted
- Heavy Gauge embossed galvanized steel cabinet
- Electric Heat to 15KW, with standard 12KW+ circuit breakers available
- Solid or Louvered wall doors
- Convertible to bottom Return
- Auto temperature reset
- 208/230/1 Electric Heat Models, 115/1 Hydronic heat modules

Furr Down

- 1.5 thru 3.0 Tons • ARI Certified coils, UL Certified
- Horizontal concealed, cased or uncased "Furr-Down" design
- DX or Chill water cooling, Electric or hot water heating
- Electric Heat to 10KW, with standard 12KW+ circuit breakers available
- Solid or Louvered access panels
- 208/230/1 Electric Heat Models, 115/1 Hydronic heat modules



COMMERCIAL AIR HANDLERS

STANDARD FEATURES

Construction

- Double wall post and panel construction from heavy gauge galvanized steel.
- 1" insulation sandwiched between panels.
- 304 Stainless steel IAQ drain pan, positively sloped 3 ways.
- Integral galvanized steel auxiliary drain pan.
- Gasketed, service access panels.
- Factory installed mounting rails (horizontal)
- All stainless steel hardware.

Blower Assembly

- Blower sections feature base mounted motors and adjustable motor bases for ease of service, mounted on RIS isolators for quiet operation.
- Blower exits cabinet through a flexible rubber isolator.

Filter Section

- 2" Throw away flat filters are standard.
- No tools required for filter access.

Coil Section

- 3/8" OD copper tubes on 24 & 36.
- 1/2" OD copper tubes on 48 & 60.
- 5/8" OD copper tubes on 180 & 240.
- Coil and drain pan assembly slides into cabinet from either side of unit for left or right hand piping.
- 24 thru 120 can accept up to 10 rows of coil in any combination. 180 & 240 can accept up to 8 rows.
- Manual air vents are standard on all water coils.

Motors

- 115, 208/230, 277 volt single phase.
- 208/230/460 three phase.
- Inverter rated 1.0 HP and larger.
- All units ETL listed.

Future optional accessories.

- Factory mounted electric heaters.
- Factory mounted fan controls.
- Factory mounted VFD.
- Valve packages.
- Mixing boxes.
- Other filtration options.

OPTIONAL FEATURES

Construction

- Internal liner options include stainless steel, aluminum, e-coated.
- Liner options include, stainless steel, aluminum, E-coated galvanized steel.
- Pre-painted galvanized steel cabinet.
- Stainless steel or aluminum cabinet.
- Tool-less and hinged access panels.
- Stainless steel or aluminum hinged access doors.

Blower Assembly

- Class II blowers.
- Air foil blowers available on selected models.
- Spring isolators.

Filter Section

- Double wall filter rack.
- 2" Pleated filters.

Coil Section

- 1 or 2 row standard steam coils.
- Heating coils installed in pre-heat or re-heat position.
- Copper fins.
- Stainless steel coil end sheets.
- E-Coating.
- DX coils can be face split, row split, or interlaced.
- Automatic air vents.
- Thermostatic expansion valves on DX coils.

Motors

- TEFC.
- High efficiency motors.
- 2 Speed/2 winding.
- Inverter rated fractional HP.

QUALITY OEM AND CUSTOM MANUFACTURED COILS

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Headers

Seamless copper tube with die formed holes that provide a parallel surface to the coil tube for strong brazed joints. Standard 1/4" manual vent with brass Schrader valve. Automatic air vents are available as an option.

Connections

Sweat connections are standard with optional red brass schedule 40 male pipe thread (MPT).

Casing

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Testing

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Material

Material	Material	Material
Tubing	Fin	Casing
Rifled Copper	Aluminum	Galvanized Steel
Smooth Copper	Copper	Stainless Steel
	E-Coated	Aluminum

Capabilities

Tube Dia.	Pattern	Fin Texture	FPI Min.	FPI Max.	Fin Thickness
5/16"	1" X 0.625"	Corrugated	10	20	.0055, .0075, .0080
3/8"	1" X 0.625"	Flat Louvered	9	16	.0045
3/8"	1" X 0.625"	Corrugated	9	18	.0045, .0055
3/8"	1" X 0.750"	Corrugated	10	17	.0045
3/8"	1" X 0.866"	Sine, Flat, Louvered	9	17	.0045, .0080
3/8"	1" X 0.866"	Modified Sine	11	18	.0045, .0055
1/2"	1.25" X 1.08"	Flat, Sine	5	16	.0060
5/8"	1.50" X 1.299"	Flat, Sine	4	16	.0100

Consult Factory For Fin Spacing Other Than Listed