

AEROFIN

*Quality HVAC and Custom
Engineered Heat Transfer
Equipment for over 75 years*



ARI Certified Ratings

**general products
catalog**



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About Aerofin

Founded in 1923, Aerofin Corporation is a leading manufacturer of finned tube heat exchanger coils and related heat transfer equipment and accessories:

- Process gas coolers and heaters
- Transformer oil coolers
- Fan/coil units
- Integral face and bypass coils
- Frames for coil removal
- Airside transitions and drain pans
- Moisture Eliminators

We also specialize in engineered applications and arrangements:

- Transferring heat from special gas streams and fluids
- Problem solving for corrosion and contamination
- Handling extremes in pressures and temperatures
- Designing for seismic conditions

Aerofin products serve a variety of industries:

- HVAC
- Fossil fuel power generation
- Nuclear power generation
- Industrial processes
- Pulp and paper
- Automotive
- Petrochemical

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Regional Aerofin Offices throughout the United States and Canada
Call 1-800-AEROFIN (237-6346) for the Aerofin office nearest you.

Quality Statement

Aerofin is ISO 9001 certified.

Our Mission—To provide our customers with quality solutions to their heat transfer equipment needs. Our goal is to be recognized as the leading and most responsive manufacturer in the industry.

Our Commitment—Design and manufacture of heat exchangers that meet the highest standards of technical performance and conform to the quality expectations of our customers.

ARI Ratings

Our coil ratings have been established in accordance with the standards of the Air Conditioning and Refrigeration Institute (ARI). Aerofin's in-house test lab is ARI certified, and test data collected is evaluated in accordance with ARI Standard 410. To monitor coil performance, sample coils are provided to ARI annually for testing and evaluation.

Selection Method

Coil selections are made using one of the most advanced Windows-based computer programs in the industry. The program's speed, flexibility and extensive help screens make selecting both new and replacement coils simple and straightforward. The program is available upon request from the home office in Lynchburg, Virginia or from any regional Aerofin sales office.

Aerofin Coil Selection Program

File Properties Options Help

Price Mode Perf Mode ENGL

Specification

Information

Job Name Quote No. System Id

Air Side

Elevation 0 ft

Airflow 6200 SCFM

Entering Dry Bulb Temp 95 °F

Entering Wet Bulb Temp 78 °F

Leaving Dry Bulb Temp 52 °F

Leaving Wet Bulb Temp 52 °F

Outside Fouling 0 hr-ft²·°F/Btu

Heat Load 0 MBH

Fluid Side: Water

Fluid Flow Rate 0 gpm

Entering Fluid Temp 40 °F

Leaving Fluid Temp 50 °F

Inside Fouling 0 hr-ft²·°F/Btu

Results

Coil Info

Number Of Coils In Face 1

Coil Type W

Fin Height 30 inch

Finned Tube Length 60 inch

Rows 6

Circuit 1

Tubewall Thickness Standard inch

Face Area = 12.5 ft² Face Vel. = 496

Finned Surface

☐ Star ☐ Copper

☒ Wave ☐ Aluminum

☐ Flat ☐ Carbon Stl

☐ Stainless Stl

Fins 9 / in

our quality



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plate fin coils

Energy Flow® Coils

Energy Flow® Plate Fin water coils are used for heating, cooling and dehumidifying. In addition to water, a variety of other heating and cooling media can be used such as glycol and brine solutions and thermal oils. Standard heating and cooling coils using steam, water or glycol are designed for applications up to 400 degrees F and 250 psig, except Type WR and WRC coils which are for use at 100 psig and 160 degrees F or less. Custom engineered solutions are available to meet your unique application requirements.

Construction Features

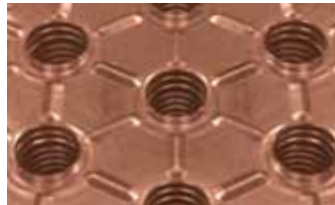
Standard Fin Designs

All Energy Flow® coils feature flat or patterned plate fins of aluminum, copper, stainless steel or carbon steel. The fins are permanently attached to the tubes by expansion of each tube. Full fin collars allow for both precise fin spacing and maximum fin-to-tube contact. Three standard plate fin patterns are available:



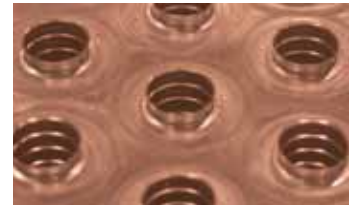
WAVE FIN

The wave fin corrugation across the fin provides the maximum heat transfer rate for a given surface area, and is the standard fin configuration used.



STAR FIN

The star fin pattern corrugation around the tubes provides lower air friction. This pattern is used when lower air friction is desired without a large decrease in heat transfer capacity.



FLAT FIN

The flat fin has no corrugation, which results in the lowest possible air friction drop and lowest fan horsepower demands.

Tubes

All standard Energy Flow® coils feature 5/8" OD or 1" OD seamless copper tubes conforming to ASTM specifications. Standard 5/8" OD tube wall thickness is 0.020 inches, except Type WR and WRC coils, which use 0.025 inch wall. Standard 1" OD tube wall thickness is 0.035 inches. Heavier wall tubing is available. Copper-nickel, aluminum, stainless steel and carbon steel are available material options.

Tube Joints

With the exception of type WR and WRC coils which feature roller-expanded tube joints, all joints for Energy Flow® heating and cooling water coils are brazed. All joints for steam heating coils are silver brazed. Aerofin brazers and welders are ASME qualified. Optional tube materials may require welded joints; call Aerofin for help in choosing the right materials for your needs.

Headers

With the exception of type WR and WRC coils, standard Energy Flow® coils feature carbon steel or non-ferrous headers with threaded pipe connections (other materials are available). Water coils are supplied with vents and drains. Type WR and WRC cooling coils use carbon steel tube sheets and removable carbon steel headers with threaded connections.

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**plate fin
coils**

Casings

Energy Flow® coil casings are heavy gauge galvanized steel designed for high strength, durability and are double flanged for coil stacking. Coil casings are furnished without mounting holes unless required. Stainless steel, aluminum and other casing materials are available material options. Special configurations are available such as welded casings for airtight applications.

Circuits

With a wide selection of standard circuits, Aerofin can optimize fluid velocity, maximize heat transfer, and minimize fluid pressure loss. Special circuits can also be engineered to meet special performance requirements.

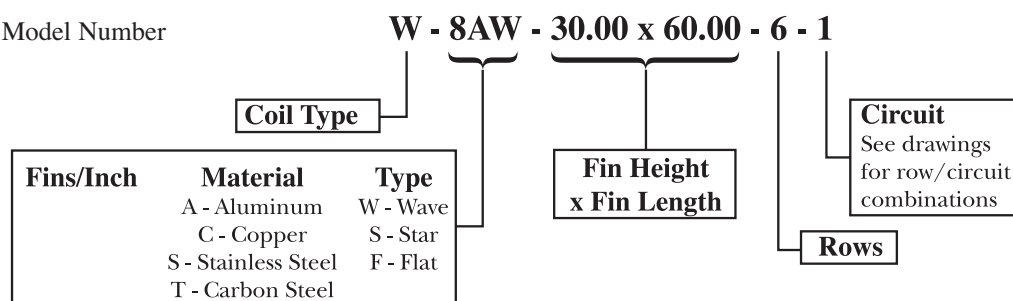
Testing

Aerofin's standard coil test is performed with 300 psig air under water. Type WR and WRC coils are tested hydrostatically to 150 psig. Higher design and test pressures are available for special applications.

Ordering Instructions

To place an order for an Aerofin Energy Flow® coil, specify the following:

1. Model Number



2. Header material

3. Tube material and tube wall thickness

4. Casing material (specify if mounting holes are required)

5. Connection type (NPT-M, Victaulic, Butt Weld, or Flanged), specify if top or bottom supply

6. Horizontal or vertical airflow

7. Left-hand or right-hand arrangement (water coils only) Note: standard construction is for horizontal airflow, right hand bottom supply unless specified otherwise

EXAMPLE

Model number W - 8AW - 30.00 x 60.00 - 6 - 1, carbon steel headers, copper tubes with .020 wall, galvanized steel casing, NPT-M connections, right-hand bottom supply for horizontal airflow.



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cooling plate fin coils



Energy Flow® Type W

Standard 5/8" OD tube coil for heating and cooling

Type W coils are the standard plate fin water coils, used for both heating and cooling applications. A typical latent and sensible cooling load requires from 4 to 12 rows of aluminum or copper plate fin surface. Standard construction includes threaded connections on carbon steel or non-ferrous supply and return headers. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Energy Flow® Type WD

Standard 5/8" OD tube coil with intermediate drain headers for heating and cooling

Similar to type W coils, type WD coils feature intermediate drain headers located on the rows between the supply and return headers. The intermediate drain headers enhance drainability and help coils drain more quickly and thoroughly. Coils should be installed pitched towards the piping connection end. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Energy Flow® Type WR

Cleanable 5/8" OD tube coil with dual removable headers for heating and cooling

Type WR coils differ from type W coils in that removable headers are supplied instead of pipe manifolds. This design allows access to the internal tubes for inspection and cleaning from either end of the coil. The headers are baffled to direct the fluid flow for numerous circuiting options, with vents and drains provided in the individual compartments. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Energy Flow® Type WRC

Cleanable 5/8" OD tube coil with a single removable header for heating and cooling

Similar to type WR coils, type WRC coils have a removable header on the piping connection end only. The opposite end has return bends, making the type WRC coil very useful in applications where access to the opposite end is limited. This coil type falls within the scope of ARI Standard 410 Certified Ratings.

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**heating
plate fin
coils**

Energy Flow® Type HW

Standard 5/8" OD tube coil for heating and cooling

Type HW coils are used with hot water, glycols, or steam and are available in 1 or 2 row configurations. Standard construction includes threaded connections on carbon steel or non-ferrous supply and return headers. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Energy Flow® Type HWP

5/8" OD tube duct booster coil for heating

Type HWP duct booster coils are used with hot water or steam, available in 1 or 2 row configurations. Threaded female connections are provided at the inlet and outlet tube locations in lieu of manifold headers. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Energy Flow® Type HD

5/8" OD tube non-freeze steam coil for heating

Type HD steam coils are designed for freezing air, heating applications. The non-freeze design is accomplished with inner-distributing tubes (tube within a tube construction). Outer finned tubes are 5/8" OD. Tubes are pitched for horizontal air flow. For vertical air flow, coil must be installed pitched towards the header end for positive condensate drainage. Type HD coils are available with 1 or 2 rows and are typically used for applications with low to moderate steam condensate loads. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Energy Flow® Type HM

1" OD tube non-freeze steam coil for heating

Similar to HD coils, type HM steam coils use 1" OD finned outer tubes. These coils feature tube within a tube construction, and tubes are pitched for horizontal airflow. For vertical airflow, this coil type must be installed pitched toward the header end for positive condensate drainage. Type HM coils are only available with 1 row and are used for applications with high steam condensate loads. This coil type falls within the scope of ARI Standard 410 Certified Ratings.





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spiral fin coils

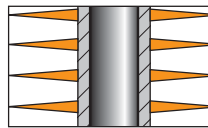
Aerofin® Coils

Aerofin® Spiral Fin water coils are used for heating, cooling and dehumidifying. In addition to water, a variety of other heating and cooling media can be used such as glycol and brine solutions and thermal oils. Standard heating and cooling coils using steam, water or glycol are designed for applications up to 400 degrees F and 250 psig, except Type R and RC coils which are for use at 100 psig and 160 degrees F or less. Custom engineered solutions are available to meet your unique application requirements.

Construction Features

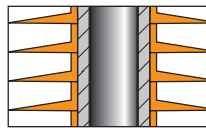
Standard Fin Designs

Aerofin® Spiral Fin coils feature fins of aluminum, copper, stainless steel or carbon steel. The fins are tension wound onto individual tubes to minimize thermal contact resistance and air friction. Tapered fin design provides maximum fin-to-tube contact for optimum heat transfer. Individually finned tubes allow unrestricted movement of the tubes, eliminating stress on the tube joints and fin to tube bond caused by thermal cycling.



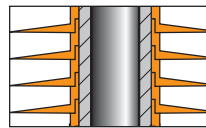
EDGEWOUND FINS

- Aluminum
- Tin-coated copper
- Tin-coated steel
- Tin-coated stainless steel



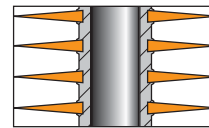
FOOTED "L" FINS

- Aluminum
- Copper
- Steel



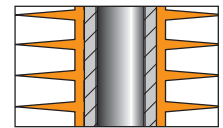
OVERLAPPED "L" FINS

- Aluminum
- Copper



EMBEDDED FINS (for high temperature or extremely corrosive applications)

- Aluminum
- Copper
- Steel
- Stainless steel
- 1" OD tubes only



EXTRUDED FINS

- Aluminum
- Copper

Tubes

All standard Aerofin® coils feature 5/8" OD or 1" OD seamless copper tubes conforming to ASTM specifications. Standard 5/8" OD tube wall thickness is 0.020 inches, except Type R and RC coils, which use 0.025 inch wall. Standard 1" OD tube wall thickness is 0.035 inches. Heavier wall tubing is available. Copper-nickel, aluminum, stainless steel and carbon steel are available material options.

Tube Joints

With the exception of type R and RC coils which feature roller-expanded tube joints, all joints for Aerofin® heating and cooling coils are brazed. All joints for steam heating coils are silver brazed. Aerofin brazers and welders are ASME qualified. Optional tube materials may require welded joints; call Aerofin for help in choosing the right materials for your needs.

Headers

With the exception of type R and RC coils, standard Aerofin® coils feature carbon steel or non-ferrous headers with threaded pipe connections (other materials are available). Water coils are supplied with vents and drains. Type R and RC cooling coils use carbon steel tube sheets and removable carbon steel headers with threaded connections.

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**spiral fin
coils**

Casings

Aerofin® coil casings are heavy gauge galvanized steel designed for high strength, durability and are double flanged for coil stacking. Tube supports are provided on various centers to support the tubes and to provide extra support during handling and coil stacking. Coil casings are furnished without mounting holes unless required. Stainless steel, aluminum and other casing materials are available material options. Special configurations are available such as welding casings for airtight applications.

Circuits

With a wide selection of standard circuits, Aerofin can optimize fluid velocity, maximize heat transfer, and minimize fluid pressure loss. Special circuits can also be engineered to meet special performance requirements.

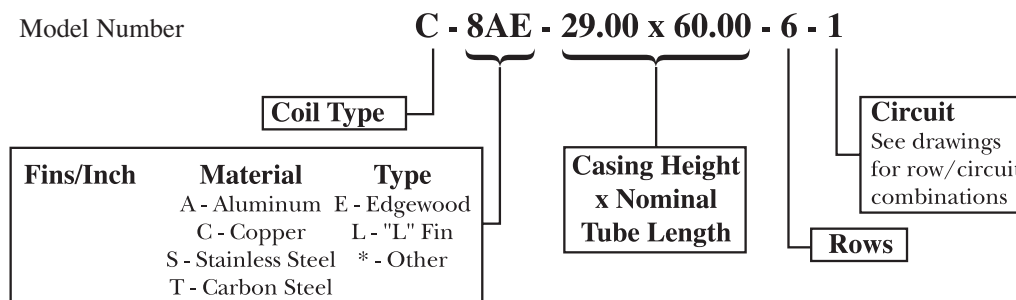
Testing

Aerofin's standard coil test is performed with 300 psig air under water. Type R and RC coils are tested hydrostatically to 150 psig. Higher design and test pressures are available for special applications.

Ordering Instructions

To place an order for an Aerofin® Spiral Fin coil, specify the following:

1. Model Number



2. Header material

3. Tube material and tube wall thickness

4. Casing material (specify if mounting holes are required)

5. Connection type (NPT-M, Victaulic, Butt Weld, or Flanged), specify if top or bottom supply

6. Horizontal or vertical airflow

7. Left-hand or right-hand arrangement (water coils only) Note: standard construction is for horizontal airflow, right hand bottom supply unless specified otherwise

EXAMPLE

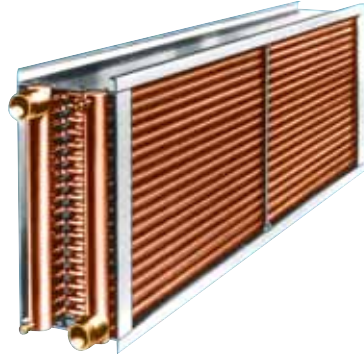
Model number C - 8AE - 29.00 x 60.00 - 6 - 1, carbon steel headers, copper tubes with .020 wall, galvanized steel casing, NPT-M connections, right-hand bottom supply for horizontal airflow.



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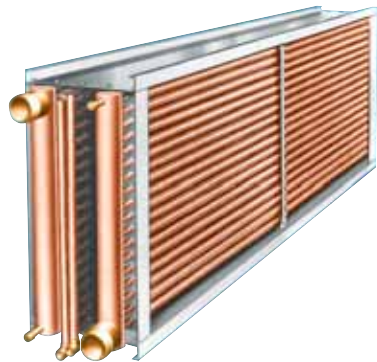
cooling
spiral fin
coils



Aerofin® Type C

Standard 5/8" OD tube coil for heating and cooling

Type C coils are the standard spiral fin water coils, used for both heating and cooling applications. A typical latent and sensible cooling load requires from 4 to 12 rows of aluminum or copper fin surface. Standard construction includes threaded connections on carbon steel or non-ferrous supply and return headers. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type CD

Standard 5/8" OD tube coil with intermediate drain headers for heating and cooling

Similar to type C coils, type CD coils feature intermediate drain headers located on the rows between the supply and return headers. The intermediate drain headers enhance drainability and help coils drain more quickly and thoroughly. Coils should be installed pitched towards the piping connection end. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type R

Cleanable 5/8" OD tube coil with dual removable headers for heating and cooling

Type R coils differ from type C coils in that removable headers are supplied instead of pipe manifolds. This design allows access to the internal tubes for inspection and cleaning from either end of the coil. The headers are internally baffled to direct the fluid flow for numerous circuiting options, with vents and drains provided in the individual compartments. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type RC

Cleanable 5/8" OD tube coil with a single removable header for heating and cooling

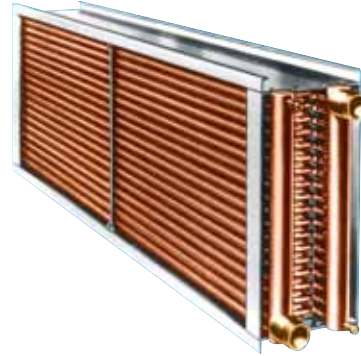
Similar to type R coils, type RC coils have a removable header on the piping connection end only. The opposite end has return bends, making the type RC coil very useful in applications where access to the opposite end is limited. This coil type falls within the scope of ARI Standard 410 Certified Ratings.

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Aerofin® Type CP (P-Fin)

Standard 5/8" OD tube coil for heating and cooling

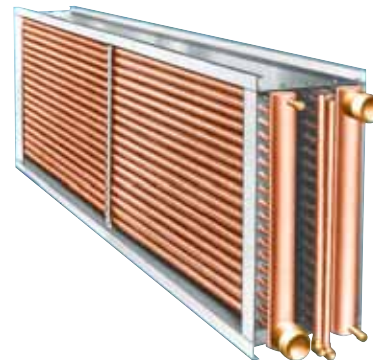
Similar to type C coils, type CP coils feature 1/2" high fins which deliver enhanced heat transfer in a given face area with extremely low air friction. This fin height also minimizes moisture carryover. Standard construction includes threaded connections on carbon steel or non-ferrous supply and return headers. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type CDP (P-Fin)

Standard 5/8" OD tube coil with intermediate drain headers for heating and cooling

Similar to type CP coils, type CDP coils feature intermediate drain headers located on the rows between the supply and return headers. The intermediate drain headers enhance drainability and help coils drain more quickly and thoroughly. Coils should be installed pitched towards the piping connection end. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type RP (P-Fin)

Cleanable 5/8" OD tube coil with dual removable headers for heating and cooling

Similar to type R coils, type RP coils feature 1/2" high fins which deliver enhanced heat transfer in a given face area with extremely low air friction. This fin height also minimizes moisture carryover. Removable headers allow access to the internal tubes for inspection and cleaning from either end of the coil. The headers are internally baffled to direct the fluid flow for numerous circuiting options, with vents and drains provided in the individual compartments. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type RCP (P-Fin)

Cleanable 5/8" OD tube coil with a single removable header for heating and cooling

Similar to type RP coils, type RCP coils have a removable header only on the piping connection end. The opposite end has return bends, making the type RCP coil very useful in applications where access to the opposite end is limited. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



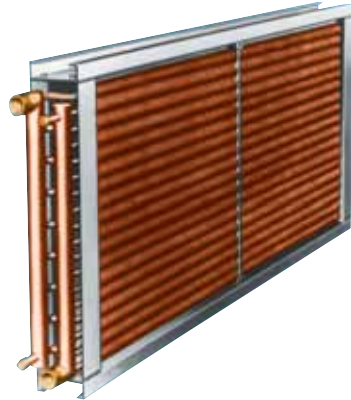
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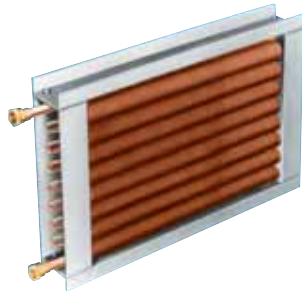
**heating
spiral fin
coils**



Aerofin® Type CH

Standard 5/8" OD tube coil for heating and cooling

Type CH coils are used with hot water, glycols, or steam and are available in 1 or 2 row configurations. Standard construction is carbon steel supply and return headers and threaded connections. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type MP

5/8" OD tube duct booster coil for heating

Type MP duct booster coils are used with hot water or steam, available in 1 or 2 row configurations. Threaded female connections are provided at the inlet and outlet tube locations in lieu of manifold headers. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type FNF

5/8" OD tube non-freeze steam coil for heating

Type FNF steam coils are designed for freezing air, heating applications. The non-freeze design is accomplished with inner-distributing tubes (tube within a tube construction). Outer finned tubes are 5/8" OD. Tubes are pitched in two directions within the casing for positive condensate drainage in either horizontal airflow or vertical airflow mounting positions. Type FNF coils are available with 1 or 2 rows and are typically used for applications with low to moderate steam condensate loads. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type ANF

1" OD tube non-freeze steam coil for heating

Similar to FNF coils, type ANF steam coils use 1" OD finned outer tubes. This coil type features tube within a tube construction, and tubes pitched in two directions for horizontal or vertical airflow. Type ANF coils are available with 1 or 2 rows and are used for applications with high steam condensate loads. This coil type falls within the scope of ARI Standard 410 Certified Ratings.

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Aerofin® Type CHP (P-Fin)

5/8" OD tube hot water coil with 1/2" high fins for heating

Type CHP coils are used with hot water, glycols, or steam and are available in 1 or 2 row configurations. Standard construction is carbon steel supply and return headers and threaded connections. 1/2" high fins deliver enhanced heat transfer in a given face area with extremely low air friction. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type CHS

5/8" OD tube steam coil for heating

Type CHS heating coils are specially designed steam coils used with entering air temperatures above freezing, and are available in a 2 row configuration. Standard construction is carbon steel supply and return headers, return bends and threaded connections. Center supply connection ensures even steam distribution. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type FLEX

5/8" OD tube steam coil for heating with flexible tubes for thermal expansion and contraction

Type FLEX coils are for demanding applications where frequent cycling occurs due to intermittent operation. The “S” shaped tubes absorb thermal expansion and contraction without causing undue joint stress. Standard construction is carbon steel supply and return headers (opposite end) and threaded connections. Type FLEX coils are available in 1 or 2 rows. They are typically used for applications with low to moderate steam condensate loads. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Aerofin® Type AFLEX

1" OD tube steam coil for heating with flexible tubes for thermal expansion and contraction

Similar to Type FLEX coils, Type AFLEX coils use 1" OD finned tubes. The “S” shaped tubes absorb thermal expansion and contraction without causing undue joint stress. Standard construction is carbon steel supply and return headers (opposite end) and threaded connections. Type AFLEX coils are available in 1 or 2 rows and are typically used for applications with high steam condensate loads.



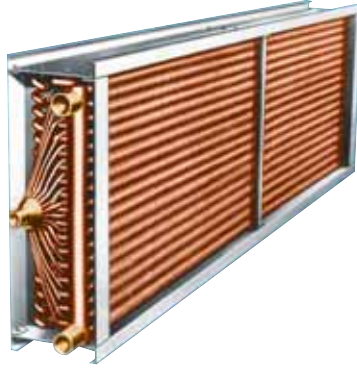
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Aerofin® Type DP

5/8" OD tube coil for cooling with refrigerant.

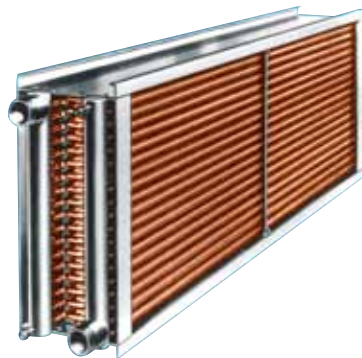
Type DP coils are direct expansion type (using refrigerant) which employ distributors that disperse refrigerant equally to all multiple circuits. Parallel/reverse flow ensures superheat. Standard construction is non-ferrous suction header(s), return bends and sweat connections. Equivalent plate fin coil is denoted as Type E.



Aerofin® Type ASH

1" OD outer tubes and 5/8" OD inner distributing tubes for boiler air preheating, removable core, same end connections.

Type ASH coils are used for heating with steam and feature a "removable core" design. This enables the coil to become an easily replaceable unit contained in a permanently mounted frame. Standard construction is carbon steel or stainless steel header, carbon steel or stainless steel tubes, embedded fins, welded joints, plugged tube ends and same end connections.



Aerofin® Type LRB

1" OD tube coil for heating and cooling with large volumes of heating or cooling medium.

Similar to Type C coils, Type LRB coils feature 1" OD tubes. Type LRB coils are for heating and cooling using water, steam or other heat transfer liquid. Although generally used for boiler air preheating, this coil readily handles large quantities of heating or cooling fluid. High temperature and pressure designs are available with special sizes and configurations and materials to meet specific requirements.



Aerofin® Type PDRP and PDRP

1" OD tube coil for heating and cooling with large volumes of liquid or steam, cleanable tubes.

Type PDRP and PDRP coils feature 1" OD tubes and removable cover plate (PDRP) or plugs (PDRP). This design allows access to the inside of the tubes for inspection and cleaning. Compatible with hot water, glycols, oils, gas, and steam, this coil is available in special high pressure/temperature designs (up to 1500 psig).

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Aerofin® Process Gas Coolers/Heaters

Transition unit for cooling or heating process gas.

These units are specifically designed for the temperatures, pressures and environments to which they will be exposed. The gastight removable core allows heat exchange elements to be readily cleaned, inspected or replaced without the need to replace the entire unit. Process Gas Coolers/Heaters are provided with transitions on both ends to mate to process piping. Aerofin designs each transition to properly distribute the air across the finned tube bundle and minimize pressure drop.



**specialty
coils**

Aerofin® Transformer Oil Coolers

Fan/coil unit specifically designed to cool transformer oil.

Transformer Oil Coolers are specifically designed for the transformer make and model, and the operating conditions. Each cooler unit consists of a coil and cabinet containing one or more direct drive propeller type fans. Standard construction is copper tubes, aluminum or copper fins, roller expanded tube joints, welded carbon steel box headers and threaded connections. Turbulators are used inside the tubes to enhance heat transfer when required.



Aerofin® Fan/Coil Units

Fan and Coil units for cooling liquid with ambient air.

Fan/Coil Units consist of one or more heavy-duty coils fitted with cabinet housing fans for cooling water, glycols, oils, and other fluids. Typical applications are dry cooling tower cooling, engine jacket water cooling and process water cooling. Fans, motors and coils are selected specifically for the environment in which they are to operate.



Aerofin® Nuclear, Safety Related Coils

Nuclear, Safety Related and Non-Safety Related coils available with various ASME Stamps.

Aerofin maintains essential quality assurance controls for all Safety Related (and Non-Safety Related) equipment requirements including 10CFR50-Appendix B, ASME Section III (Class 2 or 3), and ASME Section VIII, Division 1. Aerofin holds the ASME “N” and “NPT” certificates for ASME Section III, Class 2 and Class 3 pressure vessels, as well as a Certificate of Authorization to U-stamp ASME Section VIII, Division 1 pressure vessels. Coils are available in virtually any commercial alloy with heavy duty seismic construction and total access to internals for maintenance and inspection.





Quality HVAC and Custom Engineered Heat Transfer Equipment for over 75 years

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other coils

Other Coils

Aerofin Corporation, a market leader in the heat transfer coil industry, offers a wide variety of standard and special coils. Over the years, Aerofin has responded to industry needs with new products that suit specific applications, providing benefits unsurpassed in other configurations.

Examples of specially designed coil types are briefly described below. Aerofin's highly trained engineers can help you select the most efficient and cost effective coil type for your application.

Aeromix® Integral Face & Bypass Heating Coils

Aerofin's Aeromix® coils feature Integral Face and Bypass design. Because the leaving air temperature from the Aeromix® is controlled by directing the airflow across or around the finned tubes, modulation of the steam or fluid is not necessary. This feature maintains adequate steam pressure or fluid velocity for prevention of freeze-up. The Aeromix® provides even air temperature and constant air volume with minimal temperature override.

Typical applications include HVAC air preheat, institutional air make-up and roof-mounted penthouse make-up air. This coil type falls within the scope of ARI Standard 410 Certified Ratings.



Vertical tube model



Horizontal tube model

There are two distinct Aeromix® coil types available, most easily differentiated by the tube orientation. The vertical tube Aeromix® coil is a copper spiral fin design used in larger face area applications, up to 88 square feet. The smaller horizontal tube coil is an aluminum plate fin design used in applications up to 24 square feet in face area.

Contact Aerofin for a complete Aeromix® catalog.

Aerofin® Universal Casing Heating and Cooling Coils

Universal casing coils provide maximum fin surface area in a given space. Our special casing profile shape accommodates more tubes and more fins, yielding more heat transfer capacity.

Aerofin welcomes new and different coil design challenges. Many long-term relationships have resulted from Aerofin's desire to support customers with almost any type of heat transfer coil for most any application. Aerofin is willing and equipped to help you. Call today for your heat exchanger needs.

Aerofin Main Office and Manufacturing Facility—Lynchburg, Virginia
Regional Aerofin Offices throughout the United States and Canada
Call 1-800-AEROFIN (237-6346) for the Aerofin office nearest you.

Cross Reference Table for Coil Type

Water Coils—Cooling

5/8" OD tubes, "P" type designation indicates 1/2" high fins

Spiral Fin Coil Types	Features	Plate Fin Coil Types
C & CP	Chilled water coils	W
R & RP	Chilled water coils, removable headers both ends	WR
CD & CDP	Chilled water coils, intermediate drain headers	WD
RC & RCP	Chilled water coils, removable header connection end only	WRC

Water Coils—Heating

5/8" OD tubes

Spiral Fin Coil Types	Features	Plate Fin Coil Types
CH & CHP	Hot water coils, orificed tubes	HW
MP	Serpentine water coils	HWP
AMIX	Aeromix® integral face & bypass water coils, vertical tubes	VMW
N/A	Aeromix® integral face & bypass water coils, horizontal tubes	HMW

Steam Coils—Heating

5/8" or 1" OD tubes

Spiral Fin Coil Types	Features	Plate Fin Coil Types
CHS	Steam coils, orificed tubes	HHS
MPS	Serpentine steam coils	HSP
NW	Narrow width steam coil, opposite end connections	HB
FLEX	5/8" Flexi-tube steam coil, opposite end connections	N/A
AFLEX	1" Flexi-tube steam coil, opposite end connections	N/A

Steam Coils—Heating

5/8" OD outer tubes, 3/8" OD inner tubes

Spiral Fin Coil Types	Features	Plate Fin Coil Types
FNF	Steam coils, inner distributing tubes	HD
FIDT	Steam coils, inner distributing tubes, opposite end connections	HSP
AMIX	Aeromix® integral face & bypass steam coils, inner distributing tubes, vertical tubes	VMX
N/A	Aeromix® integral face & bypass steam coils, return bends (no inner tubes), horizontal tubes	HMX

Steam Coils—Heating

1" OD outer tubes, 5/8" OD inner tubes

Spiral Fin Coil Types	Features	Plate Fin Coil Types
ANF	Steam coils, inner distributing tubes	HM
AIDT	Steam coils, inner distributing tubes, opposite end connections	HMDT

**coil type
cross
reference**



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Founded in 1923, Aerofin is a leading manufacturer of finned tube heat exchanger coils and related heat transfer equipment and accessories such as process gas coolers/heaters, transformer oil coolers, fan/coil units, integral face & bypass coils, frames for coil removal capabilities, airside transitions and drain pans.

Aerofin products serve a variety of industries including HVAC, fossil fuel power generation, nuclear power generation, industrial process, pulp & paper, automotive and petrochemical. Applications are evaluated using the latest Windows-based performance and sizing software, which accommodates nearly any heat transfer medium. Coils are designed and fabricated to virtually any size and configuration using a wide array of construction materials. Additionally, all products can be designed and constructed to the stringent requirements of the ASME code including Section I ("S" Stamp), Section III ("N" Stamp, Class 2 or 3), and Section VIII ("U" Stamp).

With the widest range of fluid-to-air/gas heat exchangers available, Aerofin is well equipped to serve your specialty heat transfer equipment needs. Our main office and manufacturing facility with over 150,000 square feet of production area is located in Lynchburg, Virginia. Regional offices are located throughout North America. **Call 1-800-AEROFIN (237-6346)** for the Aerofin office nearest you.

Aerofin Online

Aerofin Corporation maintains a comprehensive website that provides history about our company, drawing downloads, coil selection program updates, employment information, and other general information.

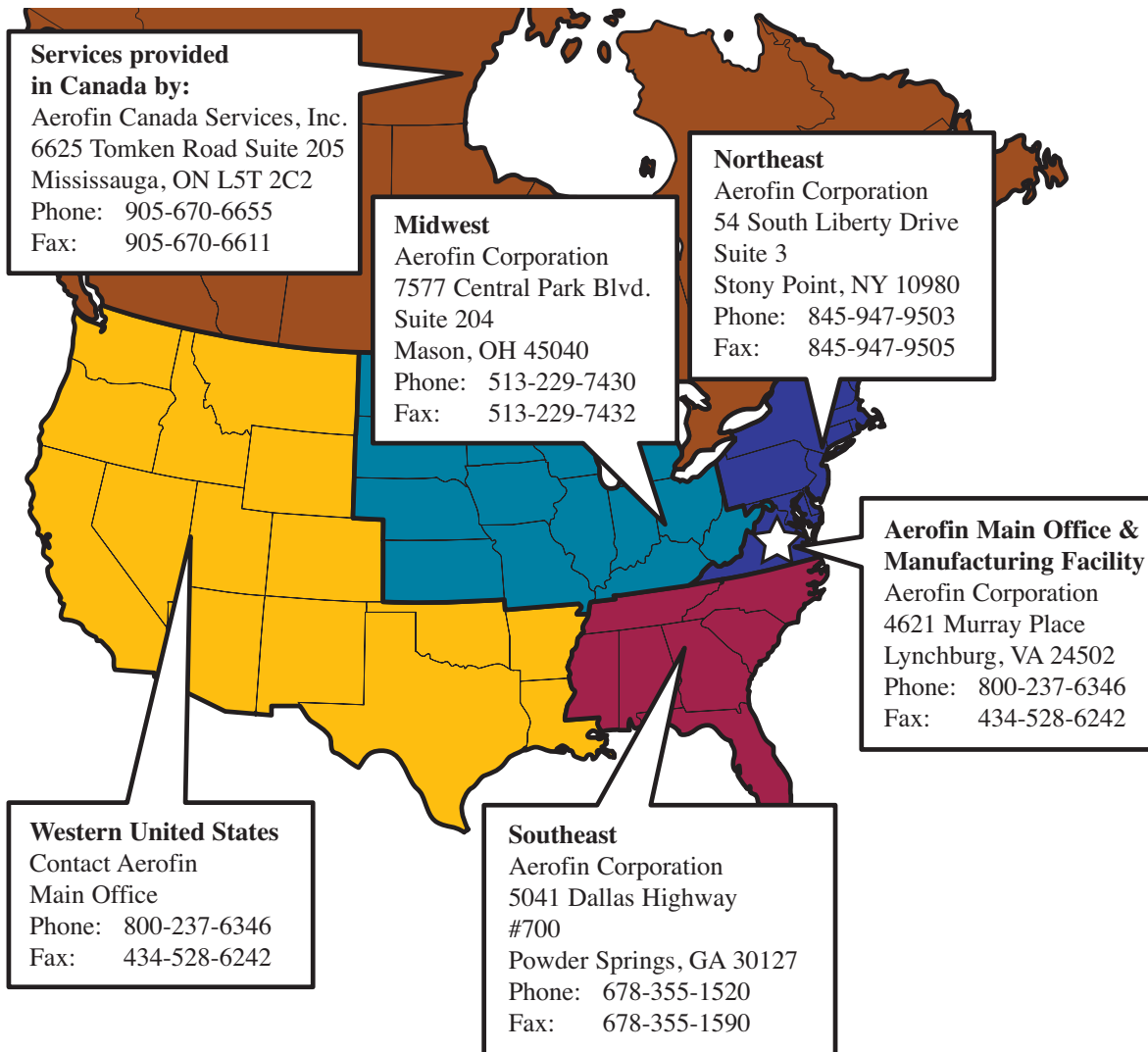
Most of the information contained in this catalog can also be accessed through the website. We are continually adding updates and maintaining the site to have the most useful information available to anyone at any time.

Comments about www.aerofin.com can be sent to the webmaster from the site. Sales inquiries are also promptly answered via sales@erofin.com.

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Working closely with our main office and a network of trained independent sales representatives, personnel in our Regional Sales Offices provide custom engineered solutions to unique requirements. Call 1-800-AEROFIN (237-6346) for the Aerofin Regional Office nearest you.



or send email inquiries to sales@aerofin.com

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In addition to ASME and NBBI accreditations, Aerofin also holds nationwide Canadian registrations such as CSA B-51 Class H fittings on all standard projects.

