



Armstrong® Armstrong Duralite™ Plate Fin Coils

Armstrong is a full-line coil supplier with application knowledge and experience you'll find nowhere else in the industry. For nearly half a century, our heavy-duty industrial coils have been serving the process needs of heavy industry.

Building on that tradition of quality and dependability, our plate fin coils meet the diverse needs of the HVAC and light industrial markets.

Casings

14 or 16 Ga galvanized steel, depending on size and material
Options: aluminum or stainless steel

Casing holes

Drawn to minimize tube wear

Vent connections

Top and bottom on all liquid coils, top of condensate header on Standard steam coils

Connections

Brass MPT for cooling applications, steel for heating applications
Options: brass or steel flanged

Headers

Minimum .060" to .134" thick copper or copper nickel, depending on coil size

Fins

V-waffle, HTE or flat: 6 to 14 FPI
Aluminum: .008", .010", .012" thick
Copper: .006", .009" thick

Tubes

5/8" OD x .028" thick copper
Options: .020" or .035" or .049" copper

1" OD x .032" thick copper on One-Row steam coils
Option: .049" thick copper

5/8" OD x 0.049" copper nickel

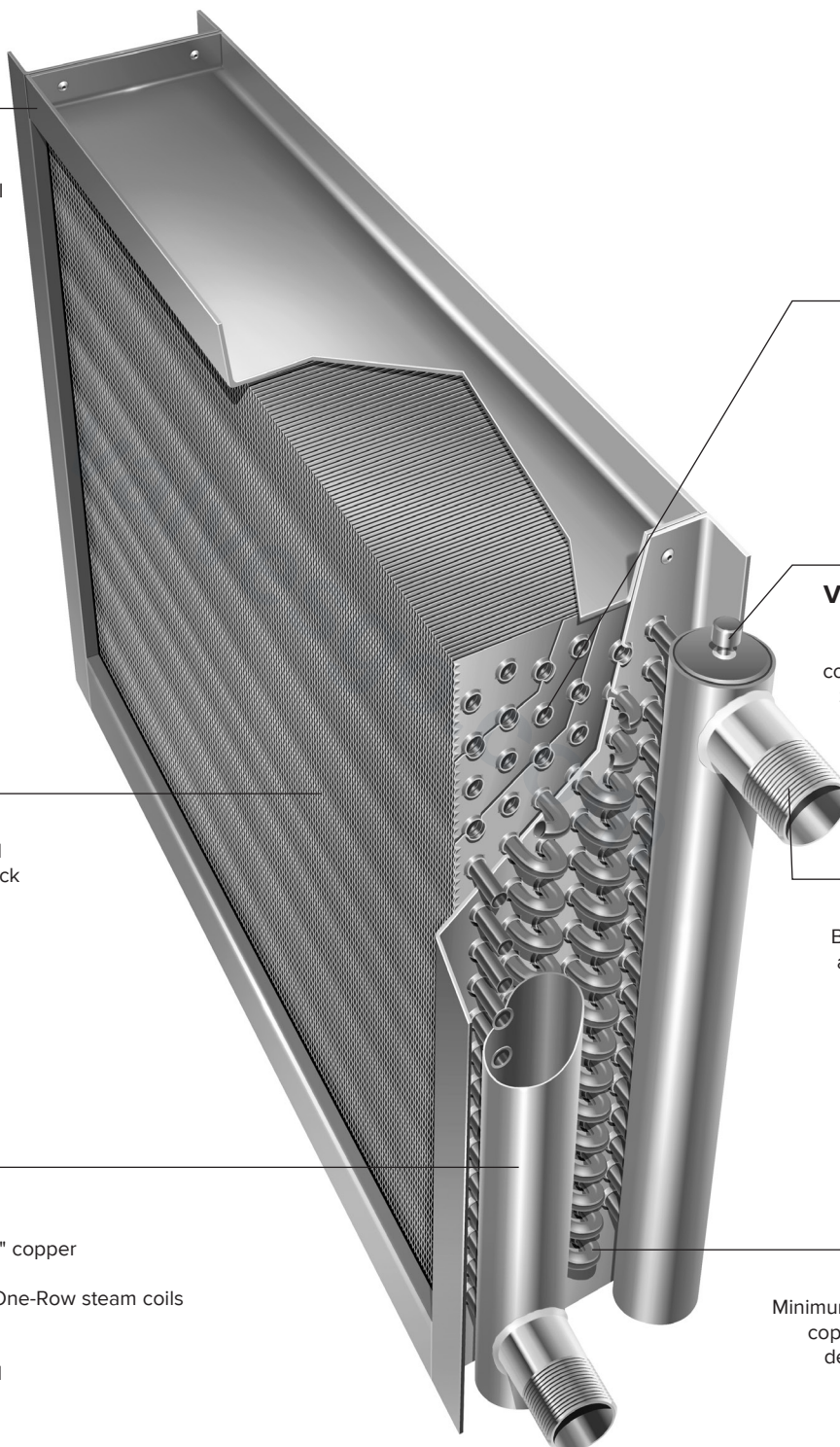
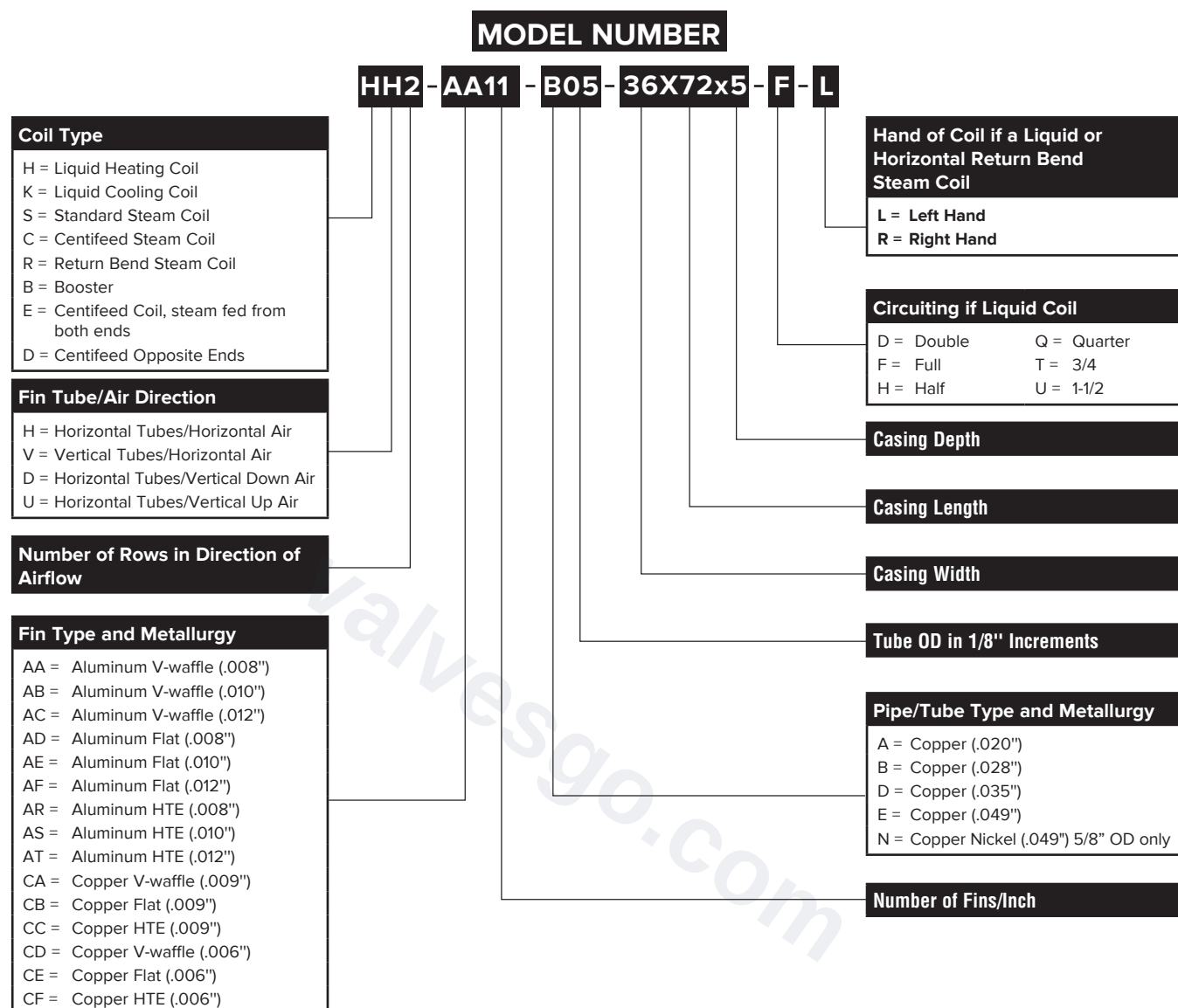


Plate Fin Coil Model Numbers



Heating and Cooling Coils

How to Identify the Circuiting of a Return Bend Coil

1. Identify the inlet header and count the number of tubes fed from it.
2. Count the number of tubes in the face of the coil.
3. Divide the number of tubes fed from the header by the number of tubes in the face.
4. The result is the identification of the coil's circuit.

How to Identify the Hand of a Return Bend Coil

1. Face the coil with the airflow at your back (or imagine this).
2. Point to the outlet connection (it will be at the top of a liquid coil and should be closest to you). On a return bend steam coil, it will be the condensate return connection and should be farthest from you. If the reverse of the above exists, the coil may be installed incorrectly.
3. The connection on your right indicates a right-hand coil.
4. The connection on your left indicates a left-hand coil.

Coil-A-ware™ Sizing Program

Armstrong coils, both heavy duty and plate fin, are available on a Windows®-based computer program that is extremely user friendly. To obtain a copy through your Armstrong Representative, visit our Web site at armstronginternational.com and supply the requested information. Your local representative will personally deliver it to you. Updates will be available and downloadable from the Web site.

*Windows is a registered trademark of Microsoft.

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.



How To Order Armstrong Duralite™ Plate Fin Steam Coils

Armstrong Duralite™ Plate Fin Steam Coils are available in Centifeed (Steam Distributing Tube Type), Standard (Opposite End Connections) and Two-Row Return Bend Construction.

Centifeed, Standard and Return Bend coils are made of 5/8" OD tubes as a standard.

One-Row coils are available optionally with 1" OD tubes.

Depending upon steam flow, long Centifeed coils may require steam to be fed from both ends to eliminate cold tube ends and subsequent freezing potential.

To ensure that a replacement coil will fit in the same location, and that it will perform the same as the coil it replaces, the dimensions and other data requested below must be obtained prior to sizing and pricing.

Dimensions

W	L	D	O	S*	C*

*Not required if Armstrong Standard Dimensions are acceptable.

Performance Information

Airflow rate: _____

☐ Fan CFM ☐ SCFM ☐ lb/hr

Fan location: ☐ before coil(s) ☐ after coil(s)

Steam pressure: _____ psig

Entering air temperature: _____ °F

Leaving air temperature: _____ °F

Altitude: _____ ft. above MSL

Coil Information

Coil type (specify): _____

Fin type: ☐ flat ☐ V-waffle ☐ HTE

Fin material: _____

Fin thickness: _____ in.

Fins per inch: _____

Tube material: _____

Tube OD: _____ in.

Tube wall: _____ in.

Steam connection size: _____ in.

Condensate connection size: _____ in.

Casing material: _____

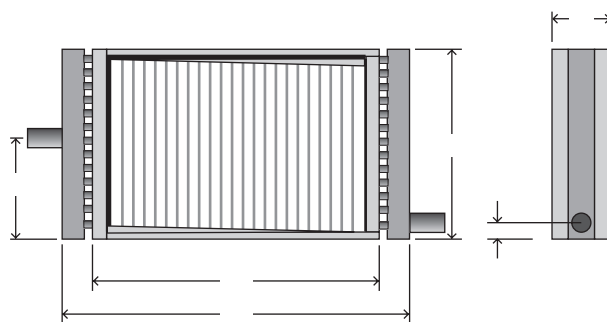
Number of tubes in coil face: _____

Number of tubes fed by each header: _____

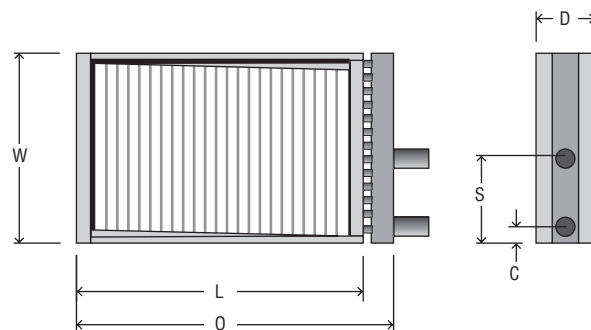
Number of rows of tubes in direction of airflow: _____

Hand of coil if Return Bend: ☐ left ☐ right

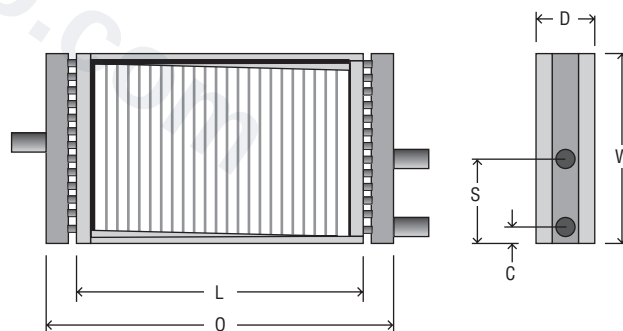
Special features: _____



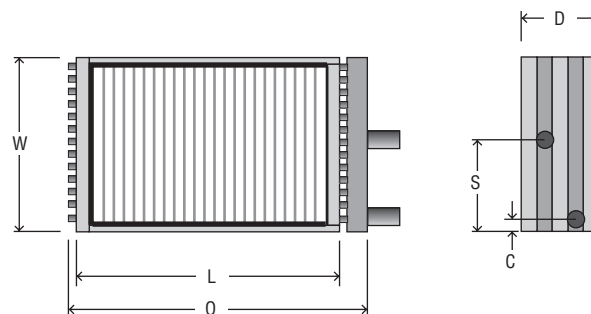
Standard Steam Coils



Centifeed Steam Coils



Centifeed Steam Coils Fed From Both Ends



Return Bend Steam Coils

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.

How To Order Armstrong Duralite™ Plate Fin Liquid Coils



Armstrong Duralite™ Plate Fin Heating Coils are available in Return Header design in one- or two-row configurations and Return Bend design in two or more rows. Liquid coils are made of 5/8" OD copper tube.

Cooling coils can be built from 2 to 12 rows and with double, full or 1/2 circuits. Custom circuits are also available.

To ensure that a replacement coil will fit in the same location, and that it will perform the same as the coil it replaces, the dimensions and other data requested below must be obtained prior to sizing and pricing.

Dimensions

W	L	D	O	S*	C*

*Not required if Armstrong Standard Dimensions are acceptable.

Performance Information

Airflow rate: _____

☐ Fan CFM ☐ SCFM ☐ lb/hr

Fan location: ☐ before coil(s) ☐ after coil(s)

Entering air temperature: _____ °F

Wet bulb or RH (if cooling): _____

Leaving air temperature: _____ °F

Heating or cooling medium: _____

Entering liquid temperature: _____ °F

Leaving liquid temperature: _____ °F

or liquid flow rate: _____ GPM

Altitude: _____ ft. above MSL

Coil Information

Coil type (specify): _____

Fin type: ☐ flat ☐ V-waffle ☐ HTE

Fin material: _____

Fin thickness: _____ in.

Fins per inch: _____

Tube material: _____

Tube OD: _____ in.

Tube wall: _____ in.

Inlet connection size: _____ in.

Outlet connection size: _____ in.

Casing material: _____

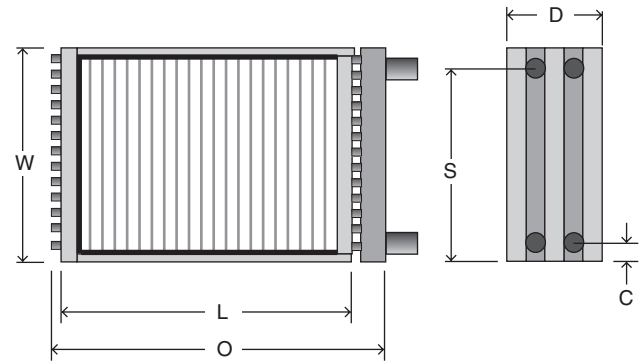
Number of tubes in coil face: _____

Number of tubes fed by each header: _____

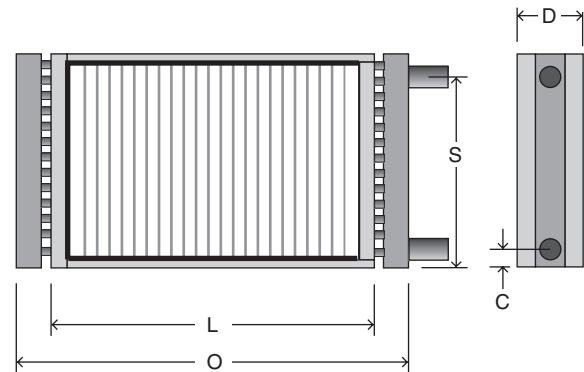
Number of rows of tubes in direction of airflow: _____

Hand of coil if Return Bend: ☐ left ☐ right

Special features: _____



Return Bend Heating & Cooling Coils



Return Header Heating Coils

Heating and Cooling Coils