



# 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

## 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

## Casing holes

Drawn to minimize tube wear

## Vent connections

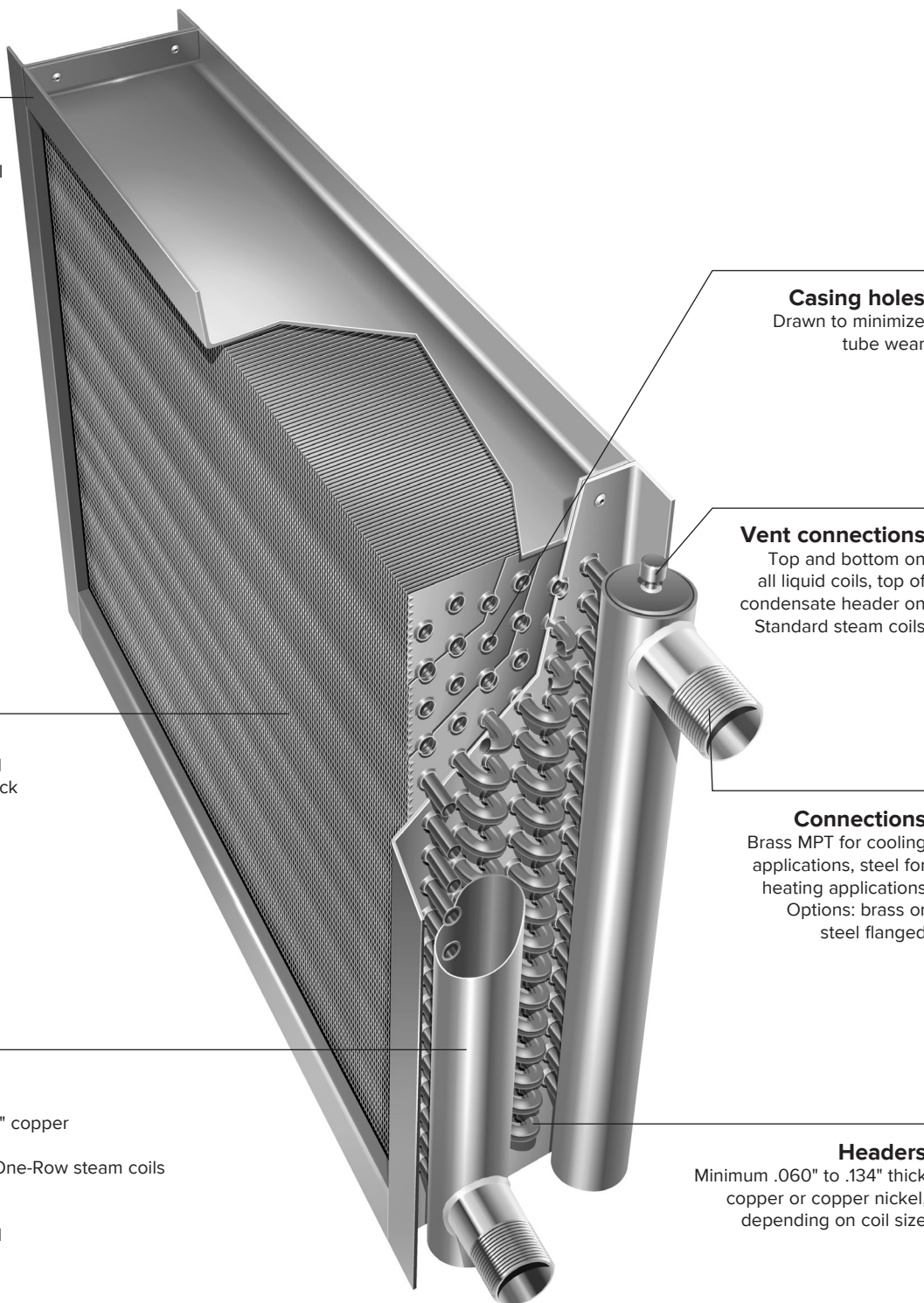
Top and bottom on all liquid coils, top of condensate header on Standard steam coils

## Connections

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

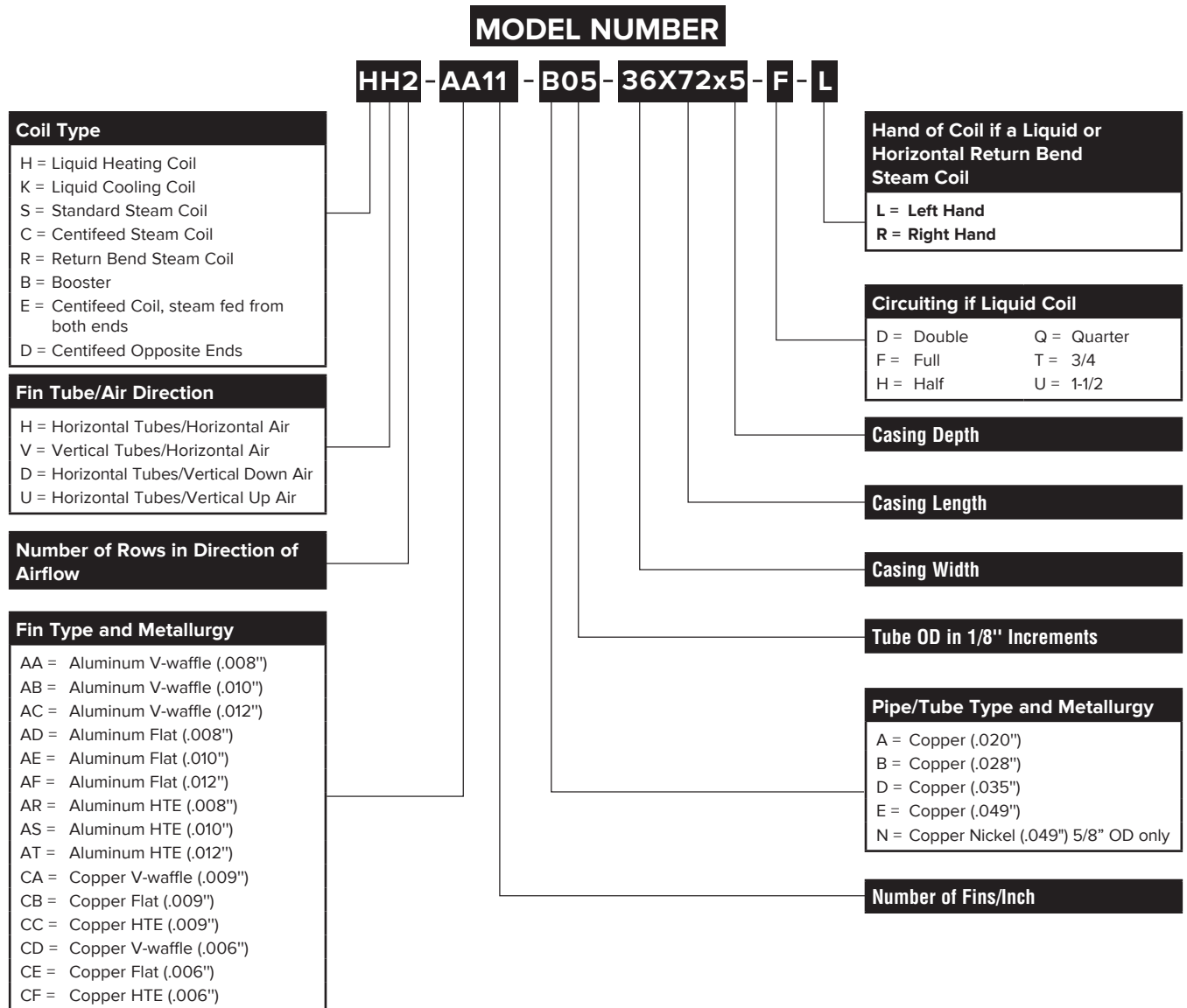
## Headers

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



Heating and Cooling Coils

# 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](http://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](http://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: \_\_\_\_\_

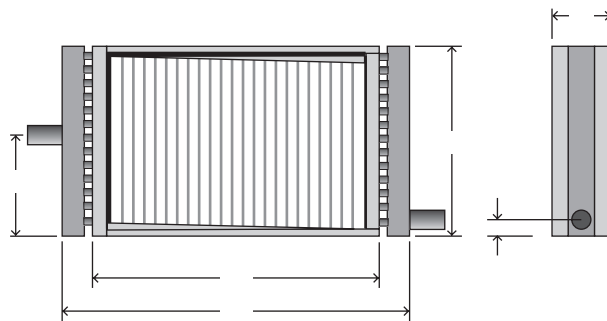
Number of tubes fed by each header: \_\_\_\_\_

Number of rows of tubes in direction

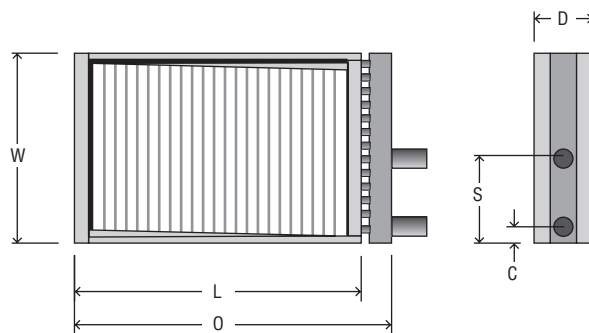
of airflow: \_\_\_\_\_

Hand of coil if Return Bend:    left    right

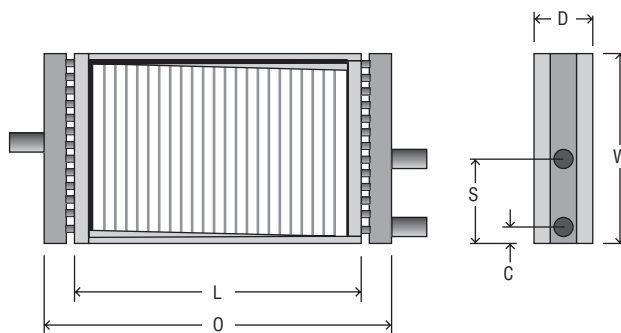
Special features: \_\_\_\_\_



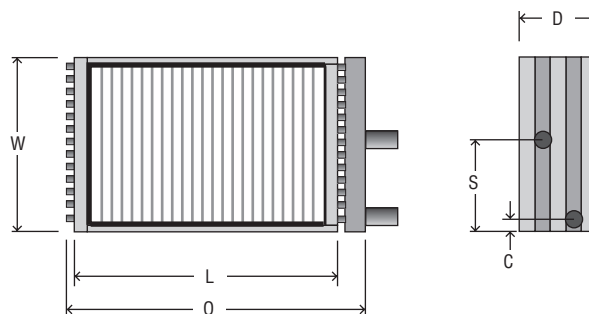
**Standard Steam Coils**



**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](http://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: \_\_\_\_\_

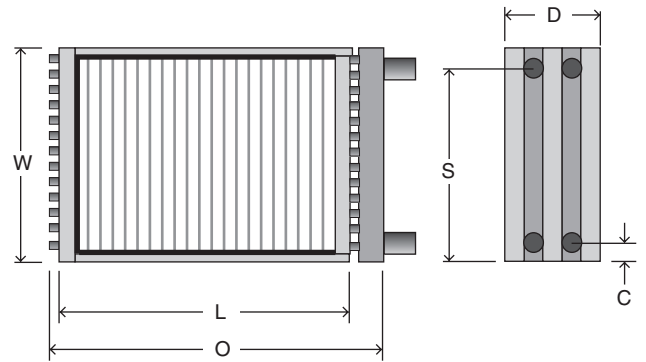
Number of tubes in coil face: \_\_\_\_\_

Number of tubes fed by each header: \_\_\_\_\_

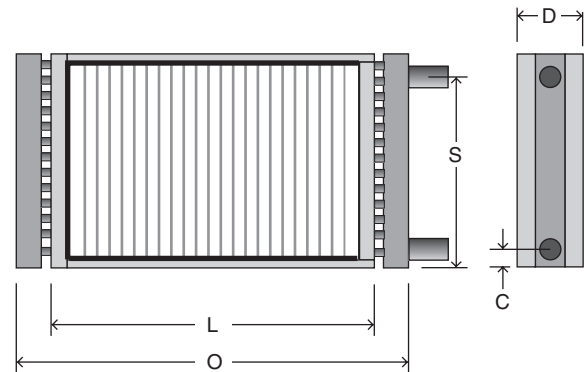
Number of rows of tubes in direction of airflow: \_\_\_\_\_

Hand of coil if Return Bend:  left  right

Special features: \_\_\_\_\_



Return Bend Heating & Cooling Coils



Return Header Heating Coils

Heating and Cooling Coils