

Replacement Coil Worksheet

This is a simple worksheet consisting of twelve steps on how to measure your existing coils. Provide this to MultiTherm with the proper information in order for insure the quotations are correct and accurate. Please fill out the worksheet and fax it back to MultiTherm at **610-408-8365**. We need the following information from you to adequately provide budget or exact pricing. This is so we have specific information to actually fabricate the coil(s). Below is our replacement coil worksheet that you will need to complete. The information requested can be obtained from the front views and connection arrangement views shown on the following pages.

Company Name: _____
 Contact: _____
 Plant Location: _____
 Date: _____

Project Name: _____
 Phone: _____
 Fax: _____
 Email: _____

Coil Item	1	2	3	4
Tag				

#1. We need the Unit Manufacturer, Unit and Coil Model Number.

Unit Manufacturer				
Unit Model Number				
Coil Model Number				

#2. Coil Type (Standard Steam, Steam Distributor, Hot Water, Chilled Water, DX Cooling or Condenser) and tube diameter, connections on same or opposite ends, and the quantity.

Coil Type / Tube Dif.				
Same or opposite end				
Quantity				

#3. Face View and Coil Connection View arrangements:

- Face View is either exposed or concealed headers and select coil closest to E1 thru E6 or C1 thru C6. We do not show the actual coil connection stubs for ease of selection.
- Coil Connection arrangement is by looking at connection end (both ends if opposite end). Select the view closest to your coil to be replaced.

Face View Arrangement				
Connection View Arrangement				

#4. Rows, Fins per inch, Number of tubes in each row:

- Rows are rows of tubing in direction of airflow. Usually one row to eight rows but can be more.
- Fins per inch are just the number of fins within one inch.
- Number of tubes high is the number you can count in one row. An example would be a 5/8" Tube Coil with a fin height of 30" and there are 20 tubes/row.

Rows (in direction of air flow)				
Fins per inch				
No. of Tubes (in each row)				

#5. Selection of finned area (FH x FL), Casing Height x Casing Length x Casing Depth (*very important*).

- FH (Fin Height) x FL (Fin Length) is finned area where air passes through the coil.
- Casing dimensions are always outer frame dimensions. Casing Height is always perpendicular to tubes. Casing Length in tube run direction. Casing Depth is always measured in direction of airflow.

FH (Fin Height) x FL (Fin Length)				
CH (Casing Height) x CL (Casing Length)				

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CD (Casing Depth in direction of air flow)				
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- #6. Overall Length (OL) and Stub Length (SL) is very important because the OL might be the most important length dimension measured since it is usually fitting snug within the walls of the unit. Always remember that OL should always be longer than CL (casing length). Stub Length is just the distance of the connection stub from header out to end including thread.

OL (Overall Length including bends/headers)				
SL (Stub Length includes connection length)				

- #7. Connection sizes are easy but connection types are usually MPT, FPT, Sweat or Flanged.

SC (Supply Connection size / type)				
RC (Return Connection size / type)				

- #8. Top and Bottom (T/B) Flange sizes and Flanges at connection and return bend ends (EF) are important to properly build channels so that coils can fit into unit. Remember FH (Flange Height) + TB + TB = CH (Casing Height) and FL (Flange Length) + EF + EF = CL (Casing Length).

T/B Flanges (Top & Bottom Flanges)				
EF End Flanges (connection & return bend End)				

- #9. This is the connection location area. Connections are always measured from the very edge (top or bottom of coil casing) to centerline of connection. A is always bottom to lowest connection. B is always from top to highest connections. C is always the horizontal measuring between connections or from side of coil casing.

A (connection located bottom up)				
B (connection location top down)				
C (connection location horizontally between)				

- #10. Construction of coil is important because we need to know to make sure special materials are used when required. If you cannot tell, then give us temperature / pressure ratings and corrosive data, in lieu of actual construction.

Tube O.D. / Construction				
Fin Construction				
Header / Connection Construction				
Casing / Frame Construction				

- #11. This section is actually giving us the circuitry on the coils. Determining the circuitry is as simple as counting the number of tubes fed from each header.

Number of Tubes connected to inlet				
Number of Tubes connected to outlet				

- #12. Comments: Our intention is not to duplicate your existing problem but to provide a better solution to fix your problem and your input is needed to make this happen. We will also need information such as coatings, your application, etc., that will help up provide a better solution.

Item #1:	
Item #2:	
Item #3:	
Item #4:	

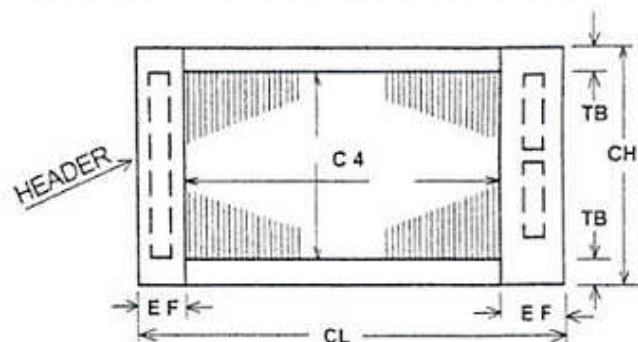
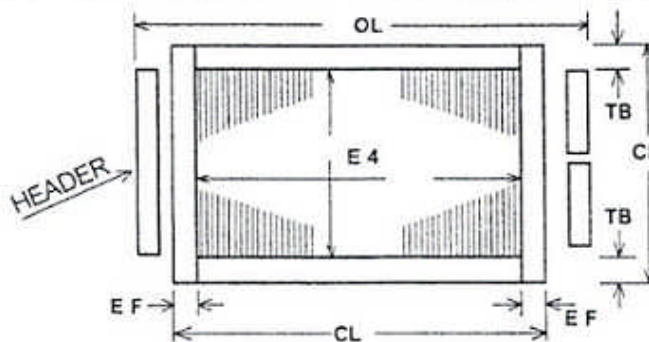
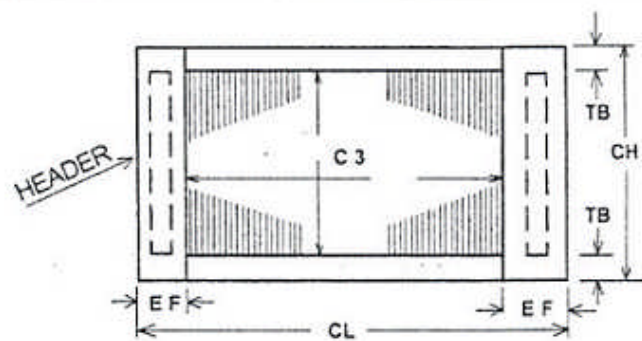
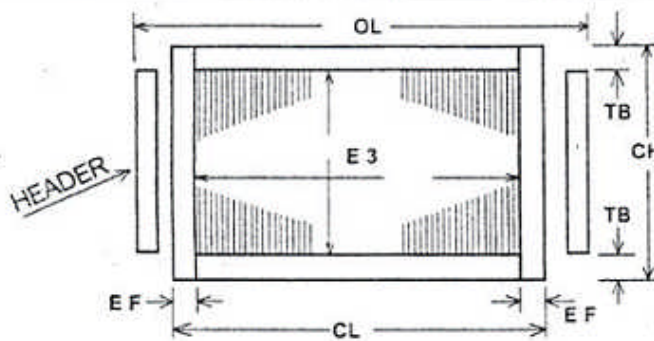
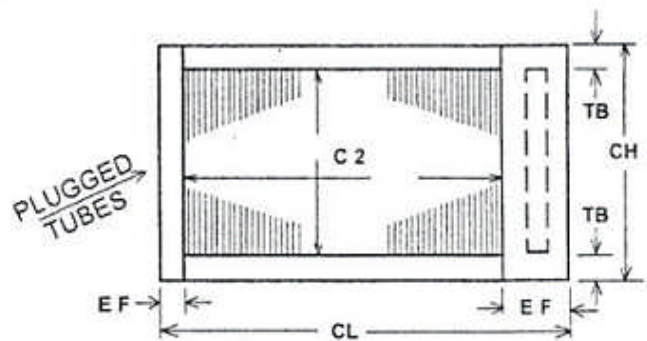
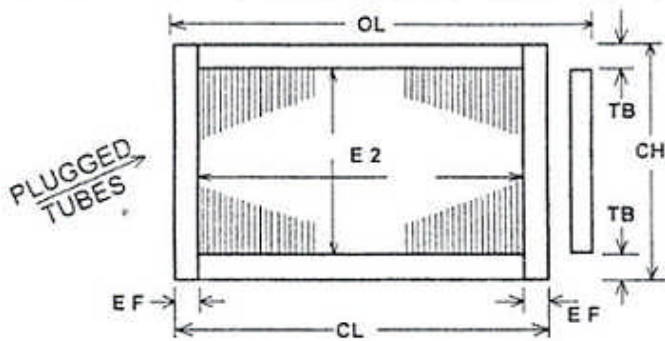
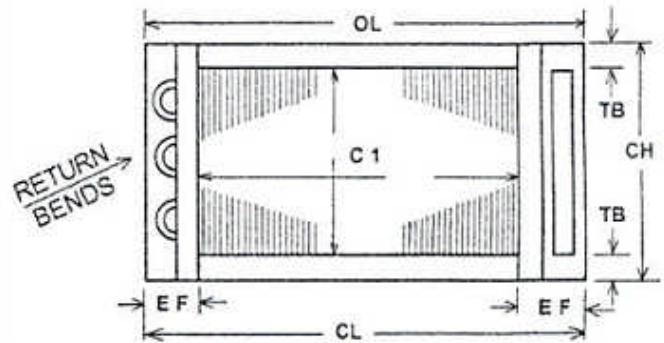
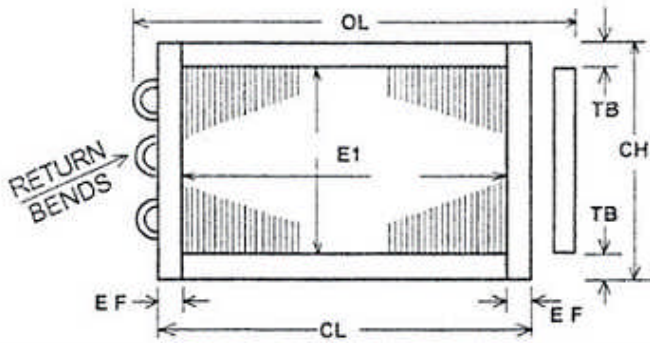
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Replacement Coil Face View Arrangements

Exposed Ends

Concealed Ends



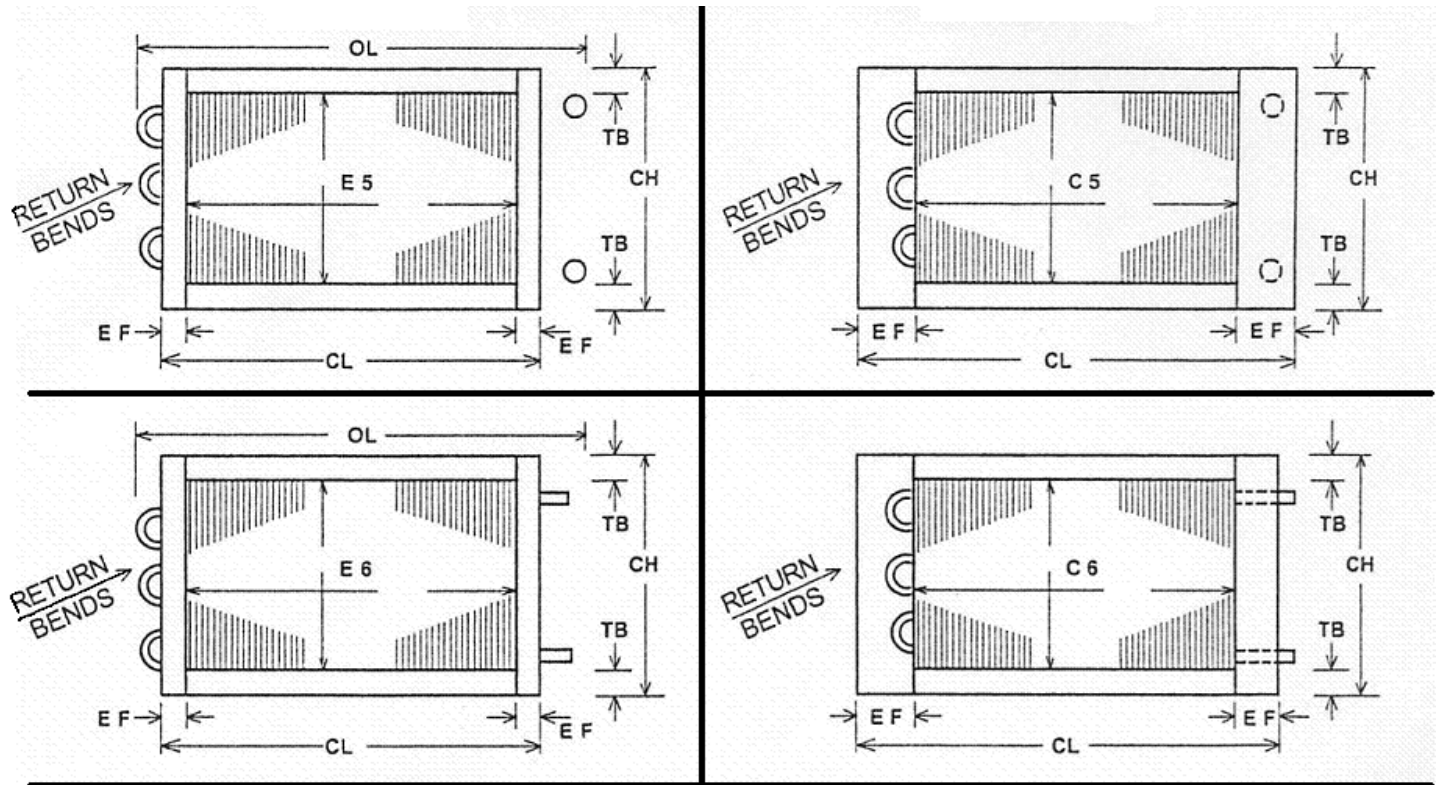
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Replacement Coil Face View Arrangements (Continued)

Exposed Ends

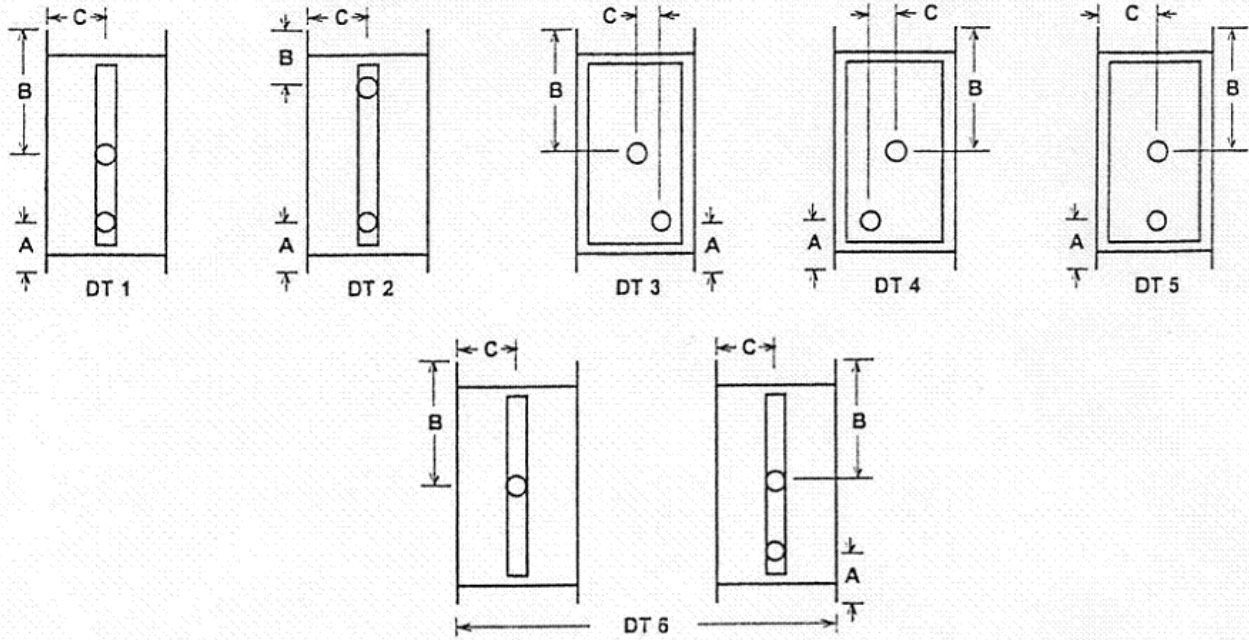
Concealed Ends



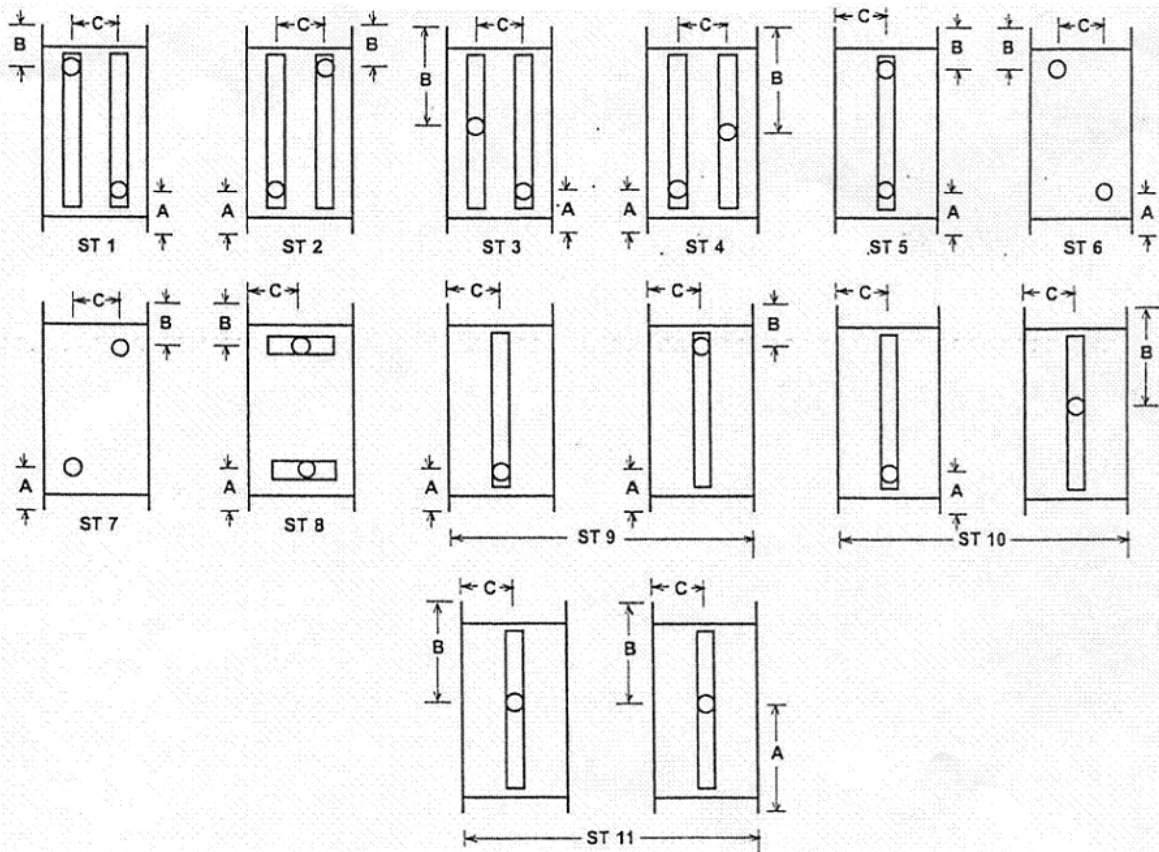
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Steam Distributing Coils - End View Arrangements



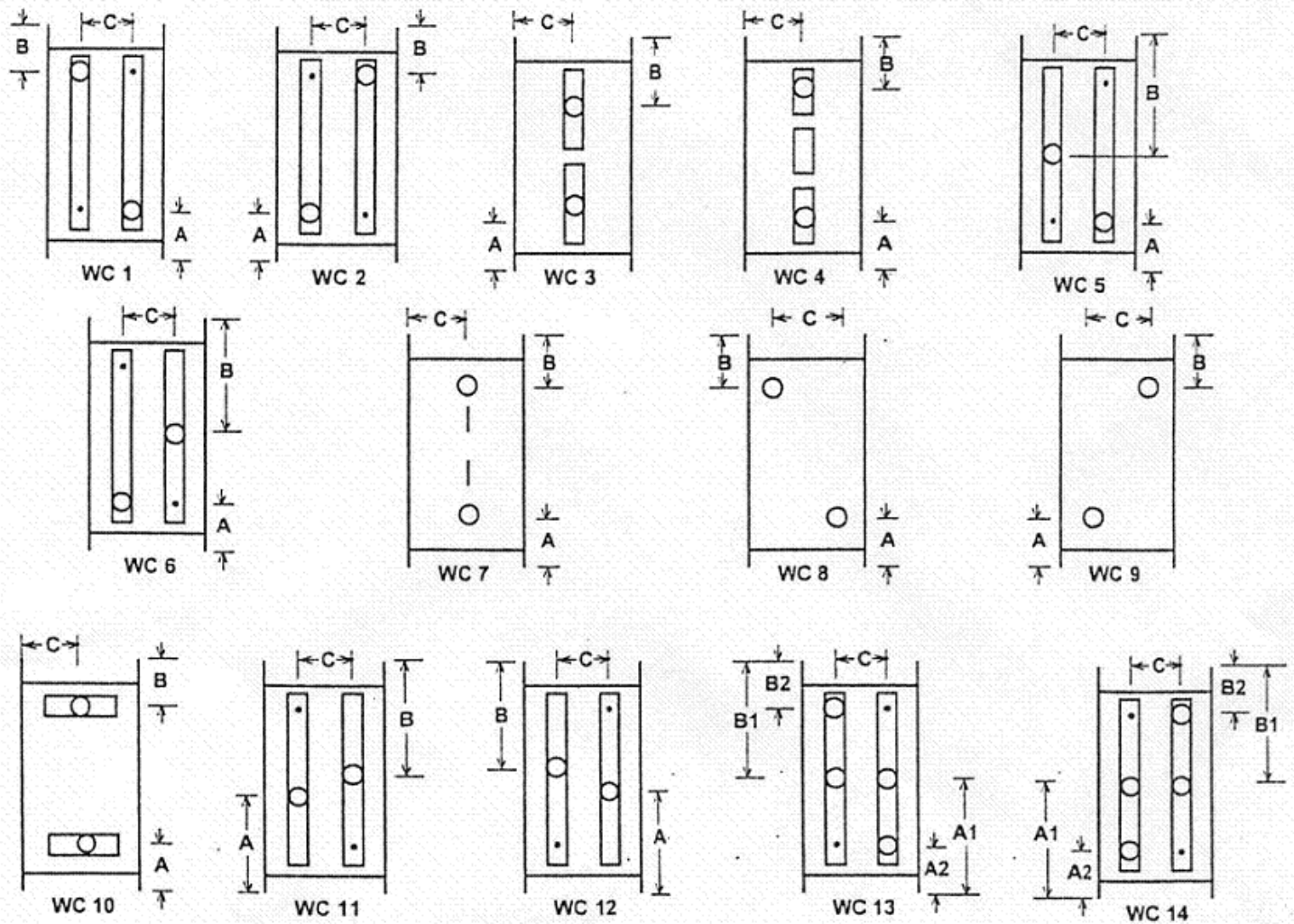
Standard Steam Coils - End View Arrangements



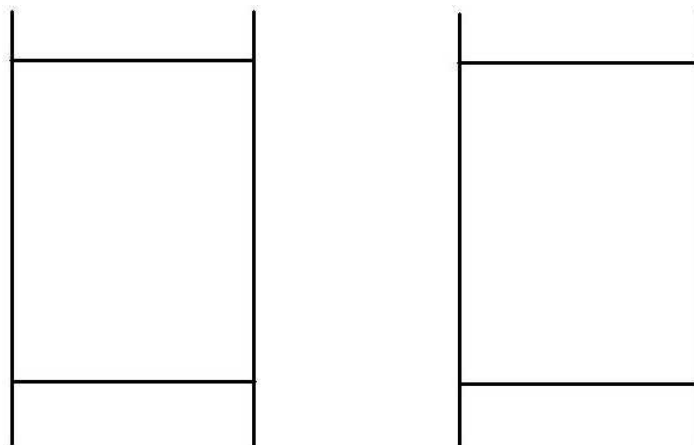
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Chilled Water and/or Hot Water Coils End View Arrangements



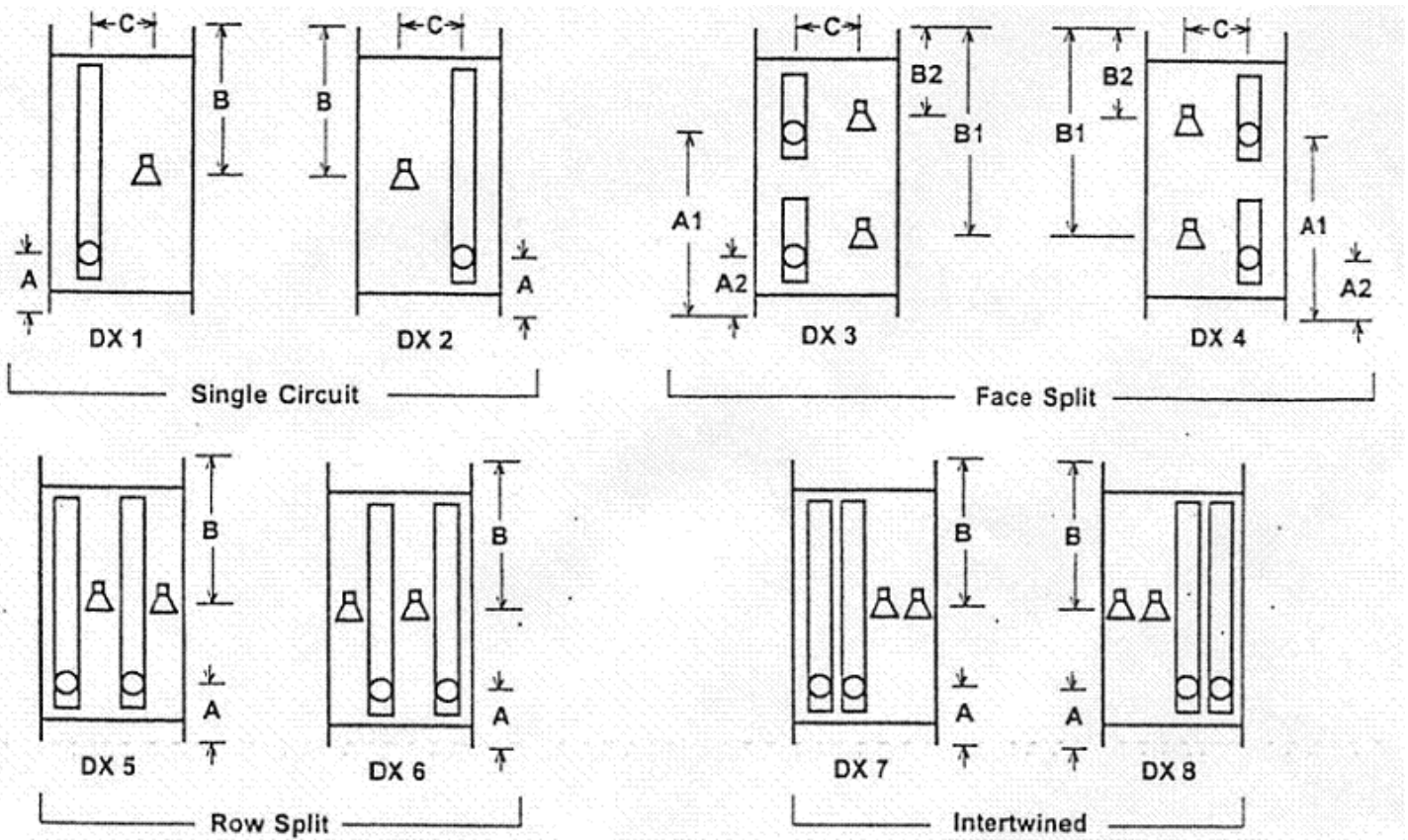
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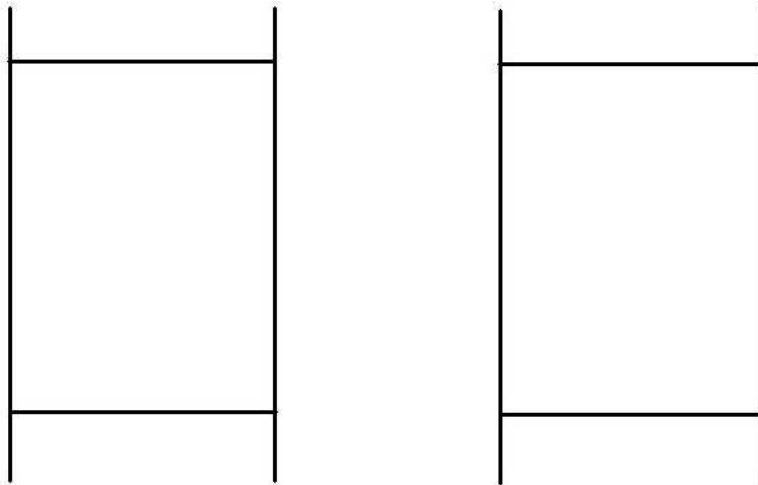
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Evaporator (DX) Coils End View Arrangements



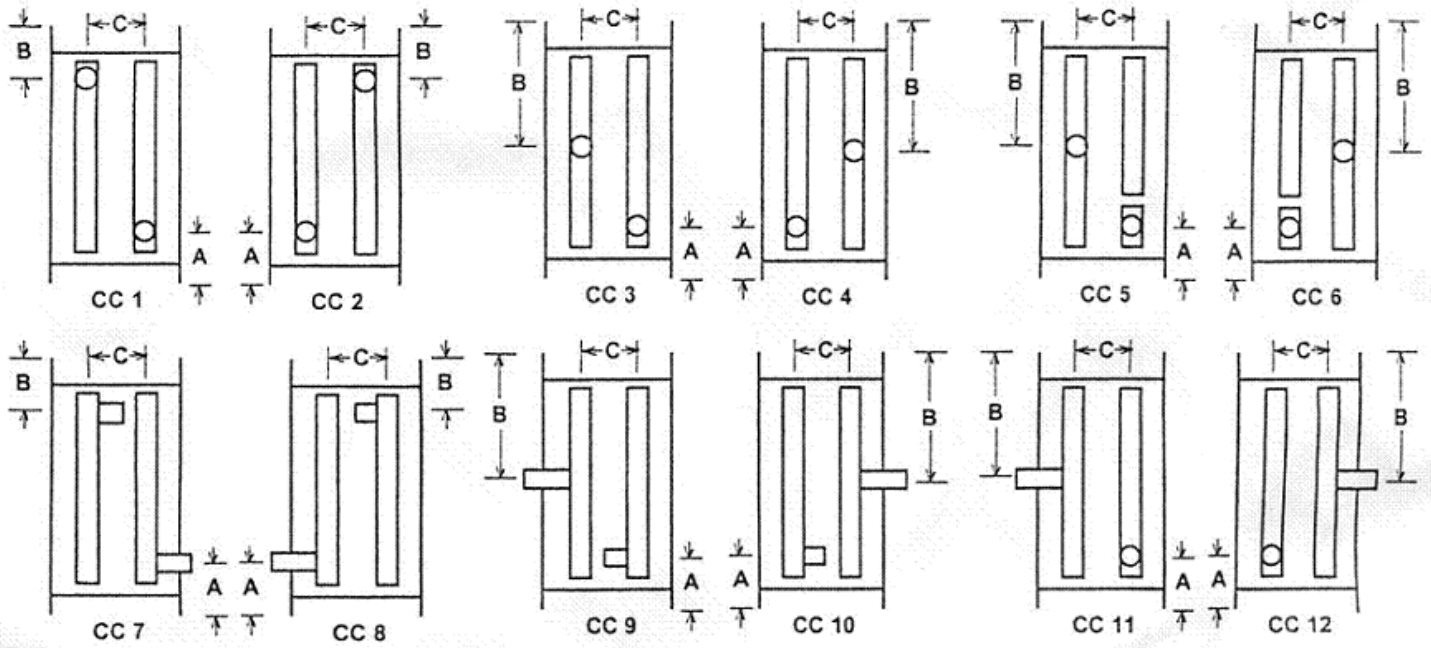
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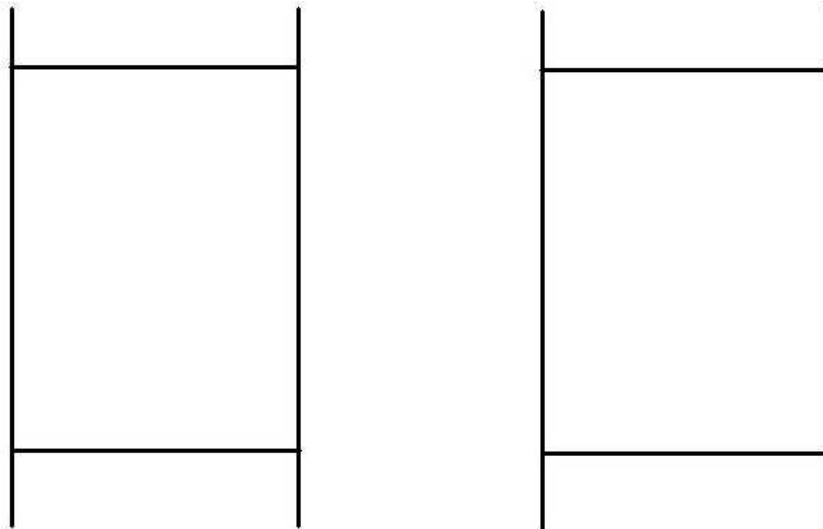
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Condenser Coils End View Arrangements



Here is a blank side view to draw what you see if it is not one of the above:



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