DX evaporator and condenser coil worksheet

For direct expansion (DX) evaporator coils and air-cooled condenser coils. Lock out the unit first. Leave anything you cannot measure blank.

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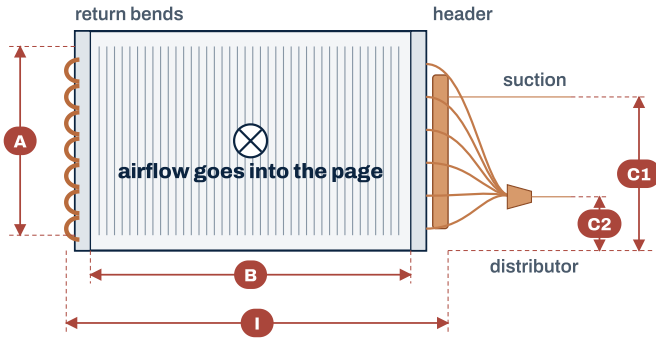
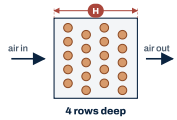
The coil face from the entering-air side. Red letters match the form.



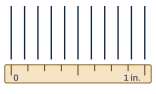
How to get it right

- **Fin height (A) and fin length (B)** are the fins only, inside the casing and between the tube sheets.
- **Connection heights (C1, C2)** are measured from the bottom of the casing to the center of each connection.
- Copy the refrigerant from the unit nameplate, and tell us if it has been changed.
- Microchannel coils (flat tubes, no round return bends) are often best replaced through the unit maker. Tick the box and we will advise.
- Two distributors usually means two circuits: note which rows or which half of the face each one feeds.
- Send the condensing unit model too. The coil and condensing unit have to match.

Casing depth (H) and rows



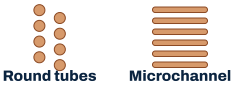
Fins per inch



Hand: air at your back



Round tube or microchannel?



Fill in at the unit

Send a photo or scan with your quote request at midwestcoils.com/request-a-quote

1 Job and unit

Your name and company _____

Job site city and state Sets freight. _____

Unit tag and where it is
For example AHU-3, penthouse. _____

Phone and email _____

Unit make, model and serial
From the unit nameplate. _____

How many coils, and when needed _____

2 Coil size

Coil ☐ DX evaporator ☐ Condenser

Construction ☐ Round tubes ☐ Microchannel

A Fin height Inside the casing, fins only. _____ in.

B Fin length
Between tube sheets, fins only. _____ in.

Rows deep Front to back, along the airflow. _____

Fins per inch Fin spaces in one inch. _____

Tube outside diameter ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ Other

Tubes in one row One row, top to bottom. _____

3 Casing and hand

H Casing depth
Outside of casing, front to back. _____ in.

Flange widths
Top, bottom and ends, if flange-mounted. _____ in.

I Overall length
Bends to header, not the stubs. _____ in.

Casing height
Outside top to outside bottom. _____ in.

Hand See the hand diagram above. ☐ Left ☐ Right

4 Connections

Number of distributors _____

Feeder tubes per distributor _____

Suction or hot gas size
Outside diameter. _____ in.

Liquid size Outside diameter. _____ in.

C1 Suction or hot gas height
Casing bottom to its center. _____ in.

C2 Liquid or distributor height
Casing bottom to its center. _____ in.

Circuiting ☐ Single ☐ Face split ☐ Row split ☐ Intertwined ☐ Not sure

5 Operating conditions, if known

Refrigerant From the nameplate. _____

Airflow _____ CFM

Entering air, dry bulb / wet bulb _____ °F

Suction or condensing temperature _____ °F

Condensing unit make and model _____

6 Photos to send

- ☐ Unit nameplate
- ☐ Fin face, tape across it
- ☐ Return bend end
- ☐ Any tag on the coil
- ☐ Header end, all connections
- ☐ Coil in the unit, way out

7 Notes

_____

_____

_____