

Sizing guidance

GPS-IMOD®

CORRECT SIZING QUICK TIPS

The key to correct sizing is to focus on the width and the height of the coil. Taking a field measurement of the coil is best and recommended. Utilizing product data to determine the coil size is second best. Measuring the outside casing can be problematic and is least recommended but can provide general guidance.

- The bar(s) should cover the entire width of the coil, with the primary bar attached magnetically to the coil header
- A bar is required for every 60" (5ft) in height on the coil
- Modular sections for bars are available in 6" lengths

EXAMPLE FOR SIZING (USING EXTERNAL UNIT DIMENSIONS):

Consider a 102" wide by 96" high Air Handling Unit (AHU)

1. For bar length, subtract 4" for the (2) 2" walls from the width of the handler = 98"
2. Then subtract an estimated 4" for coil headers = 94"
3. Then round DOWN to the next multiple of 6" = 90"

That gives you the length of the bar as being 90" (15 modular sections).

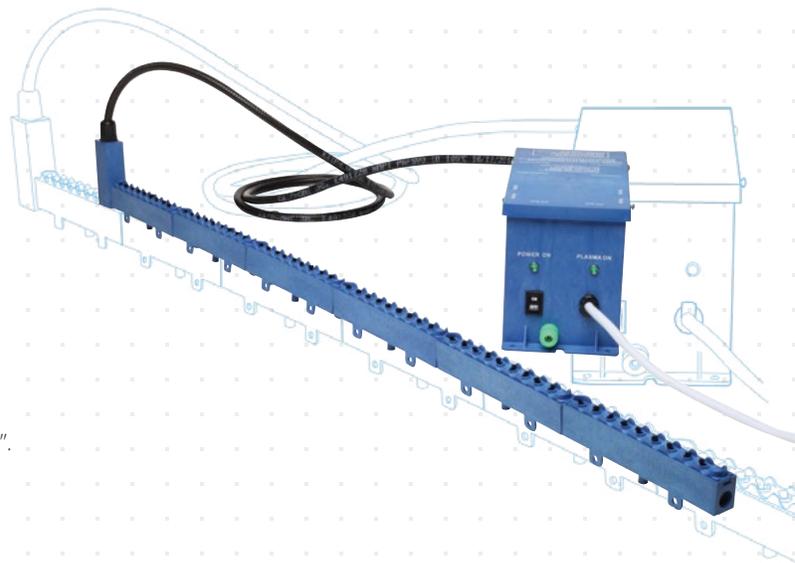
Similarly, as the unit height is 96"

1. Subtract 4" for the (2) 2" walls = 92"
2. Then take away an estimated 2" for drain pan = 90"
3. Then round DOWN to the next multiple of 6" = 90" high.

Since a single iMOD bar can cover up to 60" tall coil, 2 Bars are required.

Product requirement: (2) iMOD bars served by (1) power supply.

Note: if using on standard RTU or fan coil, the wall thickness is typically 1". Therefore, adjust the math accordingly on smaller, single wall equipment



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TROUBLESHOOTING TIPS

If the coils are stacked:

- This could mean that one iMOD bar is required for each coil, but this depends on the height of each coil. Please contact your local GPS Sales Rep for more information.

If the coils are staggered:

- While staggered coils are uncommon, this would require one iMOD bar per coil.

If there are Face/Bypass dampers in the system:

- The iMOD is not recommended for this application because there would be times when there is minimal or no airflow across the coil.

If there are final filters which ionization will not pass:

- We recommend that the ionization device is mounted after the filters, to ensure the ions are not filtered out of the airstream.

Please contact a GPS Sales rep if you have any questions around other unusual coil arrangements.



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