



Coil Company News

HVAC COILS • SPACE COOLERS • AIR HANDLING EQUIPMENT

Issue 6

10 Things Your Coil Vendor Never Told You

Here are ten more interesting things that may help you become more knowledgeable about coils.

- 1** A.R.I. only randomly selects certain size coils to test throughout a full coil line. All other performances are interpolated between the tested sizes. There is plenty of room for performance differences between competing companies. Not all of these differences are honest differences, and there is more room to cheat on performance than most people realize. A.R.I. should be a guideline, but there's more to selecting a supplier than the A.R.I. listing.
- 2** 1/2" O.D. tube diameter coils are generally less expensive than 5/8" O.D. coils. There is less lbs. of copper in a 1/2" tube coil than in the same size 5/8" coil. As a result, the coil costs less!
- 3** There is a huge saving to be had when building multiple coils of the same size. This means that fins, tubes and casing can all be cut at the same time for all coils, and everybody gets to save a lot of money.
- 4** Nobody really understands how to size coils anymore. Most people who work for coil manufacturers just plug in a computer program and spit back the performance to you. This usually means that if you have a special set of performance criteria, you probably have no shot of getting help from the manufacturer. Very few people understand that there are tradeoffs in the selection coil process and you have to give up something to get something.
- 5** The real secret in coil replacement is understanding why the coil failed in the first place. It's a completely different process to replace a coil that has been in service for 20 years and has "died" of old age than it is to replace a coil that has failed in 2 years. When you understand why a coil failed, you can build the coil differently so that you don't duplicate the problem.
- 6** Coatings on coils don't last forever. It's just like the paint on your car. When a small rust spot appears, you know that it's going to get larger over time. The metal rusts from the inside out. Coil coatings are no different, and they all eventually fail over time. It's a cost-effective method of solving a problem, but it's not the same as changing the materials of the coil. Changing materials is easily the best way to solve the problem, but probably the most costly.
- 7** You can circuit water coils lots of different ways, and not just the standard patterns that big companies offer. When you're trying to reach a particular pressure drop, you really can be creative to circuit the coil. Of course, most big companies have to build coils in large production quantities, so a lot of their flexibility is taken away.

This Issue

10 Things
Your Coil Vendor Never Told You ..pg 1&2
FREE HVAC Coil Selection Programpg 2

continued on page 2

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