

# How to Recognize the New Coils



There are a few ways to recognize the new fan coils with aluminum evaporator coils when they arrive:

- The packaging has a blue label indicating they are aluminum.
- On evaporator coils, the eighth digit of the model number will change to an "L" for "aluminum" (instead of a "C" for "copper" or a "T" for "tin-plated").
- On fan coils, the eleventh digit will change to an "L" for "aluminum."

The new Arcoaire fan coils are kicking copper to the curb to make way for a new aluminum round-tube, plate-fin evaporator coil...proving once again that change is a good thing, especially when it results in a design that offers quality, performance and installation ease.

COIL MODEL NUMBER IDENTIFICATION GUIDE										
DIGIT POSITION	1	2	3	4	5	6,7	8	9,10	11	12
	E	A	M	4	X	18	L	14	A	1
E = Evaporator										

FAN COIL MODEL NUMBER IDENTIFICATION GUIDE								
DIGIT POSITION	1	2	3	4	5	6,7,8,9	10	11
	F	C	M	4	X	1800	A	L
F = Fan Coil								

**Arcoaire**<sup>®</sup>  
Air Conditioning & Heating

Aluminum Coils & Fan Coils:  
**Quality.**  
**Performance.**  
**Easier Installation.**



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# Aluminum Coils & Fan Coils: Quality. Performance. Easier Installation.

The new Arcoaire® aluminum evaporator coils and fan coils were designed with the heating and cooling dealer in mind—to give you better quality and performance while making installation even easier.

“Our engineers have led the industry in developing a solution for formicary corrosion.”

**Quality.** The new aluminum round-tube, plate-fin design (not micro-channel) is more resistant to formicary corrosion, a major issue for every manufacturer in the HVAC industry.



Formicary corrosion, sometimes called “ant’s nest” corrosion, appears as multiple tiny pinhole leaks at the surface of a copper tube that are not visible to the human eye. These tiny leaks break down the strength of the copper tubing and can ultimately cause coil failures.



Some household cleaning agents and building materials include or lead to organic acids like formic and acetic acid. Disinfectants, deodorizers, vinegar and even cosmetics are to blame for the formicary corrosion that can occur in HVAC copper tubing.



**The solution:** Our engineers have led the industry in developing a solution for formicary corrosion. They have developed an evaporator coil that can stand up to organic acids in the home and the resulting formicary corrosion that can occur. Lab testing shows that the new Arcoaire fan coils with aluminum evaporator coils can do just that.

Engineers put the new aluminum evaporator coils through:

- 40,000+ cooling cycles.
- 30 months of accelerated corrosion testing.
- 2,000+ PSI (pounds per square inch) burst tests.
- 250,000+ fatigue tests on the coils’ transition joints.
- Acid tests using 1,000 different condensate samples collected from every section of the United States.

**And, the results are in.** when compared to traditional copper coils, the new Arcoaire fan coils with aluminum evaporator coils are:

- 14 times more resistant to formic acid solution.
- 60 times more resistant to bleach solution.
- 3.5 times more resistant to a mixed acid solution.

These new aluminum evaporator coils are more resistant to organic acids and formicary corrosion than copper coils.



“These new coils match the thermal transfer performance of traditional copper coils.”

**Performance.** Can the new aluminum evaporator coils offer the same thermal transfer properties that traditional copper coils do? Yes. These new coils match the thermal transfer performance of traditional copper coils. In some cases, the aluminum tube hairpins provide better cooling efficiency and capacity than similar copper models.

“They are the same size, height, width and depth as traditional copper coils—and they are lighter and easier to carry!”

**Easy Installation.** The new aluminum evaporator coils will not impact coil or fan coil installation and service processes.

These coils are the same size, height, width and depth as traditional copper coils—and they are lighter and easier to carry!

Also, the new Arcoaire aluminum evaporator coils include a copper transition joint that is made in the factory, so you will find the same copper connections on these new evaporator coils that you are used to seeing. You will braze copper-to-copper during installation. If you need to replace a coil, the process is easy, braze copper-to-copper as usual...making installation and service seamless and simple.

