



# **Industrial Coils**

**...for Corrosive Applications**

## ***Designs and Materials . . . Tailored to fit your application!***

At RAE Coils, we understand that this isn't a "one-size-fits-all" industry. So it's not surprising that we offer a wide variety of designs. Some are less likely to foul, while others function at higher temperatures. Still others are more durable and stand up better to the rigors of demanding process applications.

Our non-corrugated plate fin delivers superior cleanability in a wide range of industrial applications. This style provides tube support, coil rigidity and the lowest airside resistance of any fin design available. We offer it in copper, steel, stainless steel, and aluminum, with thickness up to .020."



## ***Manufacturing and Testing . . . The Quality Combination!***

Energy transfer efficiency is the single most important performance factor for coils in process applications. An intimate contact between fin and tube must be permanently maintained to assure unimpeded heat transfer. The integrity of that bond must remain constant throughout the coil's working life to retain its specified capacity. Years of experience building for industrial applications enables RAE Coils to ensure an excellent fin/tube bond on stainless steel and steel tubing with tube walls up to .109."



## ***But that's just the beginning!***

In the majority of industrial process applications, corrosive atmospheres plus temperature and/or pressure extremes combine to justify the use of a welded tube-to-header joint. Unlike a brazed joint, these welded connections achieve the same upper temperature limits as the material being welded. Thus, RAE Coils uses welded joints on all stainless steel, steel, and aluminum coils.

- ***Water Coils***
- ***Direct Expansion Coils***
- ***Standard Steam Coils***
- ***Steam Distributing Coils***
- ***Ammonia Coils***

***Industrial Coils by RAE Coils work great in:***

***Paper/Paper Pulp • Chemical/Petrochemical • Process Drying • Power Generating  
Food Processing • Grain Processing • Many Other Industries***

# Industrial Coil Capabilities

5/8" Diameter Tube Options								
Fin Material	Fin Thickness	Tube Materials	Tube Thickness	Casing Materials	Casing Material Thickness			
Al	.007/.095/.016	A214 Steel (CS)	.049/.065	AL	1/8"			
CU	0.095	CU	.035/.049	CS		14 ga	12 ga	10 ga
304 SS	0.008	304 SS	.035/.065	Galv.	16 ga	14 ga	12 ga	10 ga
316 SS	0.008	316 SS	.035/.065	304 SS	16 ga	14 ga	12 ga	11 ga
CS	.01/.012			316 SS	16 ga	14 ga	12 ga	11 ga

  

7/8" Diameter Tube Options								
Fin Material	Fin Thickness	Tube Materials	Tube Thickness	Casing Materials	Casing Material Thickness			
Aluminum	.01/.014/.02	A214 Steel (CS)	.049/.065	AL	1/8"			
304 SS	0.008	304 SS	.035/.049/.083	CS		14 ga	12 ga	10 ga
316 SS	0.008	316 SS	.035/.049/.083	Galv	16 ga	14 ga	12 ga	10 ga
Carbon Steel	.01/.012			304 SS	16 ga	14 ga	12 ga	11 ga
				316 SS	16 ga	14 ga	12 ga	11 ga

Note: CS=Carbon Steel  
Contact Factory for Material Combinations Not Shown.

Our industrial coils are hydro-tested for structure integrity and pneumatically tested for leak detection. Factory test results for every coil are available upon request and each is backed with our manufacturer's warranty which covers workmanship and materials.

To ensure that every coil we manufacture will meet the quality standards our process has been designed to achieve, each one is individually inspected for:

- **Dimensional integrity**
- **Fin to tube bond quality**
- **Tube to header joint quality**
- **General appearance**

As one of the world's leading manufacturers of heat transfer coils and coil systems for replacement and OEM applications, RAE Coils products are used in applications that include:

- **Process equipment for heating, cooling and dehumidifying**
- **HVAC equipment for comfort heating and cooling**
- **A wide variety of heat recovery equipment**