ARMSTRONG BOILER AIR PREHEATING
TOTAL INTELLEGENT SYSTEM SOLUTIONS
Armstrong Preheat Coils outlast thin-finned and thin-walled lightweights because of superior engineering and robust construction. Thicker tube walls and fins provide greater resistance to coil damage and wear from high pressures, temperatures and corrosive conditions.

**Armstrong’s Typical Heavy Duty Air Heater Specifications:**
- Fins - Keyfin - Embedded, Spiral Wound Aluminum or Copper
- Fin Thickness - Minimum 0.020" thickness or optional 0.030" Heavy Keyfin
- Tubes - 1" OD x 12 Ga Carbon Steel or 14 Ga St.St. (1-1/2" OD Available)
- Inner Tubes - 1/2" - 7/8" OD Carbon or St. Steel (no perforations or holes)
- Headers - Heavy Wall (Carbon Steel or St.Steel) Fabricated
- Tube/Header Joints - All Welded - Multi-Pass Full Penetration
- Tube Sheets - NC Machined, and Chamfered Tube Holes - Heavy Gauge
- Mono-Metallic Construction on all wetted parts reducing potential for galvanic corrosion
- Coil Casings - Min 16ga or 12 Ga Galvanized Steel or St. Steel
- Outer Casings - Drawer Type Construction with Airtight Outer Casings for ease of coil removal or replacement
- Cleanout/Inspection/Access Spacer Sections - Available on request
- Inlet/Outlet Transitions - Per Specification
- Pre-Piped Options - On Application
- Extended Warranties - Available on Application
- Design and Construction in Accordance with ASME SECTION VIII Div. 1 (All Armstrong 6000 Series Coils are built to this standard whether or not ASME is required - unlike other manufacturers)
- U Stamp Available on request
- Special Materials and Coatings available on request
- Manufacturing done in Armstrong factories, not subcontracted. Armstrong controls all QA/QC in-house.

Whether you need a standard replacement coil or custom-built unit, you’ll get the same built-in quality. During construction each section of the coil is checked for compliance with detailed, written QA/QC procedures available for your review. And, finally the complete coil is tested hydrostatically to ASME standards.

Armstrong offers total steam expertise and manufacturing capability that can help you identify and solve coil problems. In addition, Armstrong’s steam system package approach is a blueprint for blending superior products, knowledge and judgment into plans for effective energy management and pinpointing Heat Rate improvements.

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Armstrong is also the only global manufacturer with the ability to supply key system components including steam supply control valves, heavy duty coils, condensate trapping, venting collection and return systems as well as flow measurement from the same corporate sourcing! This makes Armstrong your one-stop solution source!
You can depend on Armstrong for custom engineering and quality construction. Coil problem: Armstrong solution. We can manufacture coils in a range of sizes and in a variety of metals and alloys, including steel, stainless steel, copper, copper-alloy and other metals. A blend of custom engineering and quality construction results in an extended life cycle for your combustion air or process system coil/service package with a focus on heat rate improvement for power generation applications.

Armstrong has a complete range of service options. Specialists from Armstrong can visit your location for walkthroughs and follow up with comprehensive system assessments. While there may be more than one course of action for you, we will recommend and—if you choose—implement the one(s) that will deliver the greatest benefit.

Although the cost of fuels fluctuates, Armstrong can help you use it more efficiently. Our experience and total coil air preheating system capability can be the beginning of your transition from necessary parasitic load preheating to maximizing your combustion air preheating system's effect on improving overall system efficiency and reliability.

**CONTACT US TODAY!**

Pre-piped Steam Supply: Steam supply piping to each individual steam coil. All welded to ASME code standards, ANSI Class 300 Flanged coil connections, All fittings slip on or butt weld per facility spec, All bolting and Gaskets per facility spec.

Pre-piped Condensate skid: Armstrong TVS (Trap Valve Station) Inverted Bucket Steam Trap set for each individual steam coil. Armstrong TTF Stainless Steel Steam Air Vents for steam coils, Armstrong 11-AV Vent for liquid coils. All fittings socket weld per facility spec. with exception of NPT equipment. All bolting and Gaskets per facility spec. Piping support brackets for field mounting of skid, Condensate Headers prepiped with connections to Bank 1 Condensate (liquid) Coils.
Auxiliary Use of Flash Steam Recovery from Boiler Air Preheating

Armstrong Pressure Reducing Valve 2000 Series
Armstrong Back Pressure Regulator
Armstrong Steam or Air Motive Condensate Return Package
Flash Recovery and LP Loop
Flo-Rite-Temp Instantaneous Water Heater
Hot Water Out
Cold Water In
Steam/Air Motive
Receiver

Boiler Air Preheating Best Practices - Piping, Drainage, Venting

Armstrong High Pressure Steam Trap
Armstrong Electromagnetic Flowmeter
To Condenser Hot Well or Deaerator
Armstrong TAVB Air Vent / Vacuum Breaker
Steam Separator
Condensate
High Pressure Steam Source
VERIS Accelabar®

If you are NOT following Best Practices, you may not be getting the Most out of your Air Preheating System!