

F-15 Heat Exchanger Capabilities

Increased Efficiencies and Significant Cost Savings



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Military F-15 Heat Exchangers

Maintaining and Extending the Life of Military Aircraft

Wall Colmonoy Aerobrazе specializes in the manufacture and overhaul of Fin & Plate and Tubular Type Heat Transfer Products for F-15 Stainless Steel / Inconel Heat Exchangers.

Wall Colmonoy Aerobrazе’s brazing and manufacturing expertise has resulted in increased efficiencies and significant cost savings in maintaining and extending the life of critical F-15 operations for the US Air Force (USAF).

Having developed the first heat exchanger re-core procedures for the US Air Force (USAF), Wall Colmonoy has overhauled 2,400+ Heat Exchangers for the USAF. The overhaul process includes 100% replacement of all tubes, replacement of any non-serviceable manifold component parts, inspection and performance testing in accordance with USAF Technical Order. Original heat exchanger serial numbers are maintained for part traceability. Aerobrazе achieves near 100% yield rate for both the F-15 primary and F-15 secondary heat exchangers on all parts inducted for overhaul.

Since 2013 Wall Colmonoy Aerobrazе has manufactured more than 500 F-15 Fin & Plate Heat Exchangers for DLA (USAF) & Foreign Military Services (FMS).



*Primary Heat Exchanger - Tubular
(Overhaul & New Manufacture)
P/N 189320-3-1 | NSN 1660-00-273-8669*



*Primary Heat Exchanger - Fin & Plate
(New Manufacture)
P/N 8140-1 | NSN 1660-01-341-7295*



*Secondary Heat Exchanger
(Overhaul / Re-Core)
P/N 189340-4-3 | NSN 1660-00-544-4334*

Description	Part Number	NSN
Primary Heat Exchanger - Tubular (Overhaul & New Manufacture)	189320-3-1	1660-00-273-8669
Primary Heat Exchanger - Fin & Plate (New Manufacture)	8140-1	1660-01-341-7295
Secondary Heat Exchanger (Overhaul / Re-Core)	189340-4-3	1660-00-544-4334

F-15 Primary / Secondary Heat Exchangers Overhaul / New Manufacture / Re-Core

Capabilities

Wall Colmonoy Aerobrazé's process capabilities for heat transfer products include reverse engineering; in-house fin manufacturing; in-house metal stamping and forming; and in-house brazing and heat treating.

Heat transfer assemblies are manufactured and overhauled to meet stringent U.S. military requirements including operation under environmentally extreme conditions from -65 to 1650°F (-54 to 900°C). Corrosion durable assemblies resist cracking and failure over long-term use.

Repair, Overhaul / Re-core and Test

- New Manufacture
- Overhaul / Re-Core
- Core Manufacture
- Reverse Engineering

Building Cores is our Core

Capabilities include in-house manufacturing of all core details including fin material, high volume capacity for Inconel cores, and shelf stock inventory of ready-to-use replacement cores to support quick turnaround times for the Foreign Military Service Community. Overhaul / Re-Core pricing for FMS users available upon request.

- High volume capacity for Inconel Cores
- In-House manufacturing of all core details, including fin material
- Overhaul / Re-Core IAW T.O. 15A4-85-3 and USAF Approved Re-Core Process
- Pricing for FMS Users Available Upon Request

Pioneers and Today's Leading Experts

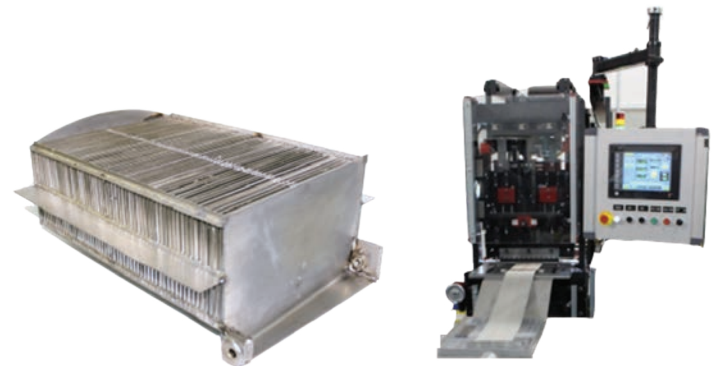
Wall Colmonoy developed the very first heat exchanger overhaul procedure for the US Air Force. Prior to that in the 1950s, Wall Colmonoy invented Nicrobraz® nickel-based brazing filler metal and pioneered high temperature furnace brazing. Even today, Nicrobraz® is used extensively in heat exchanger manufacture and overhaul.

Wall Colmonoy Aerobrazé continues to develop its brazing and manufacturing expertise resulting in increased efficiencies, significant cost savings and performance improvements.

For inquiries, email aet@wallcolmonoy.com



Wall Colmonoy developed the overhaul / re-core process for the USAF and is an approved contractor.



In-House manufacturing of all core details, including fin material.



The information provided herein is given as a guideline to follow. It is the responsibility of the end user to establish the process information most suitable for their specific application(s). Wall Colmonoy Corporation (USA) assumes no responsibility for failure due to misuse or improper application of this product, or for any incidental damages arising out of the use of this material.

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