

HUDSON®

TECHNICAL SEPARATION

HISTORICAL SIGNIFICANCE

- ▶ Manufacturer of Heat Transfer Equipment since 1939
- ▶ Authors and contributors to many industry standards including API-661/ISO 13706 and third party exchanger software design programs such as HTRI Xace
- ▶ Over 40,000 Air cooled exchangers and 200,000 Axial Flow fans installed in over 100 countries
- ▶ Inventors of Hy-Fin Extruded and Extruded Finning Processes
- ▶ No product claims for non-performance - EVER
- ▶ No lost time safety incidents since 1999

UNIQUENESS IN THE INDUSTRY - Hudson is the Only Cooler Manufacturer in the World to:

- ▶ Manufacture our own fans (FRP and aluminum) - offering a fully guaranteed single source thermal design
- ▶ Manufacture our own bearings, anti-rotation devices, louvers and fan actuators
- ▶ Manufacture our own ultra low noise fans
- ▶ Manufacture our own extruded and extruded serrated finning machines
- ▶ Provide a Single Source Thermal Design - complete bundle, fan, thermal and mechanical warranty
- ▶ Test 1% of all finned tubing for thermal performance compliance with design predictions using our patented Hudson Single Tube Tester
- ▶ Performance test tube bundle geometry configurations in our on-site wind tunnel
- ▶ Wind tunnel test our fans to verify performance predictions
- ▶ Field noise test our fans
- ▶ Provide performance enhancing accessories as standard equipment such as:
 - Parabolic inlet bells and adjustable fan rings to maintain minimum tip clearances
 - Top quality third party actuators and drive systems
- ▶ Unconditionally guarantee the thermal/mechanical performance of our complete unit in accordance with our Fin-Fan air cooled exchanger specification sheet

INTELLECTUAL PROPERTY

- ▶ Finite Element Analysis software for tube bundle design to both Divisions of ASME Section VIII
- ▶ Computational Fluid Dynamics for hot air recirculation predictions
- ▶ Proprietary Proposal Design/Estimating Software
- ▶ Proprietary header design software system
- ▶ Structural modeling software to meet any seismic, dynamic, static or wind loading condition
- ▶ Customized CNC header manufacturing allowing zero tolerance contact surfaces
- ▶ Automated header welding processes
- ▶ Automated fan manufacturing facilities
- ▶ Industry recognized metallurgy expertise and high alloy welding procedures and NDE techniques

LOCATIONS

North America, Mexico, Middle East, Africa, Europe, South East Asia, China

For more information:

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