

Hamon Deltak



**Waste Heat
Boilers**



Waste Heat Boilers for Challenging Process Applications

Bring Us Your Toughest Heat Recovery Challenges

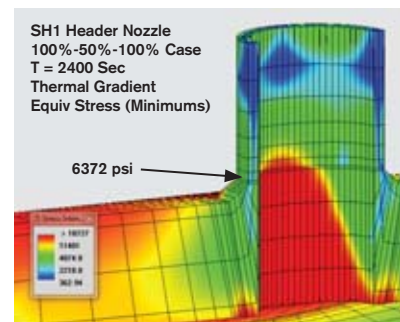
Hamon Deltak has a forty-plus-year heritage of designing and building technically sophisticated waste heat boilers for refineries, chemical plants, incinerators and other demanding applications.

Our vast engineering experience and advanced mechanical capabilities give us the confidence to respond when asked to design and build boilers with unique features. For example, our expertise with crevice-free designs sets us apart from others.

When a refinery calls us with a tall order...say sulfuric acid regeneration units with flue gas temperature up to 2200°F (1204°C) and each train producing 600 tons of product acid per day...we respond with designs answering the mechanical challenges of such massive thermal loads while maintaining cost-effectiveness.



Hydrogen plant process gas boiler.



Finite Element Analysis of header nozzle.

Flue Gas Cooler for FCC application in U.S.



Our Engineering Advantage

Your exceptional waste heat boiler project deserves exceptional engineering talent. All Product Managers, Application Engineers and Estimators involved in preparing your proposal will be engineering professionals.

Hamon Deltak invests in engineering talent because it makes a difference to our customers. We work hard to truly understand your technical needs up front as we believe there are no “standard” projects. All projects involve some degree of unusual technical challenges and our customers deserve to be speaking to experienced professionals...right from the beginning.



Two drum boilers for U.S.



Unexcelled Expertise in Process Boilers

Fired Process Boilers for

- Hydrogen plants – steam reformers for ultra low sulfur fuels
- FCCU/RCCU – Flue Gas Coolers and CO boilers
- Sulfur recovery – typically Claus process

Unfired Process Boilers for

- PDH (Propane Dehydrogenation)
- EOR (Enhanced Oil Recovery)
- Incineration
- Oxygen generation
- Coke calciners



Benefit from Worldwide Fabrication Capabilities



Unlike most other U.S.-based waste heat boiler manufacturers, Hamon Deltak maintains fabrication along with worldwide sourcing capability.

The knowledge and experience gained through having an on-site shop serves our customers two ways:

- Being a manufacturer guides our selection and supervision of fabricators in different parts of the world — we know what to look for in a fabricator.
- For those projects built in our shop, the close proximity of Engineering and Manufacturing staff allows us to take on aggressive delivery schedules.

Comprehensive Retrofit and Upgrade Services

Serving FCCU, process boilers and CO/NO_x emission control equipment.

Engineered Solutions and Fabrication

- Pressure part modifications/replacement
- SCR retrofit/improvement
- Solutions to corrosion and tube failures
- Installation planning and assistance
- Inspection and field service

Replacement Parts

- Overnight shipping of many items
- Difficult to find parts
- Modifications/substitutions
- International orders



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