

FIRETUBE BOILER

3-PASS DRYBACK



EXCELLENCE IN THE MAKING

Every FRONTIER® firetube boiler is produced against a company-wide “Concept to Completion” credo that exists from project inception through to boiler commissioning and start-up. Our manufacturing facilities are equipped to deliver on the diversity of firetube applications across multiple industries.

Our firetube team works seamlessly from in-house engineering and project management on through to manufacturing, logistics and field service to deliver a flawless product. Victory Energy controls the quality and timeliness on all project engagements to ensure that the product arrives on time and on budget.

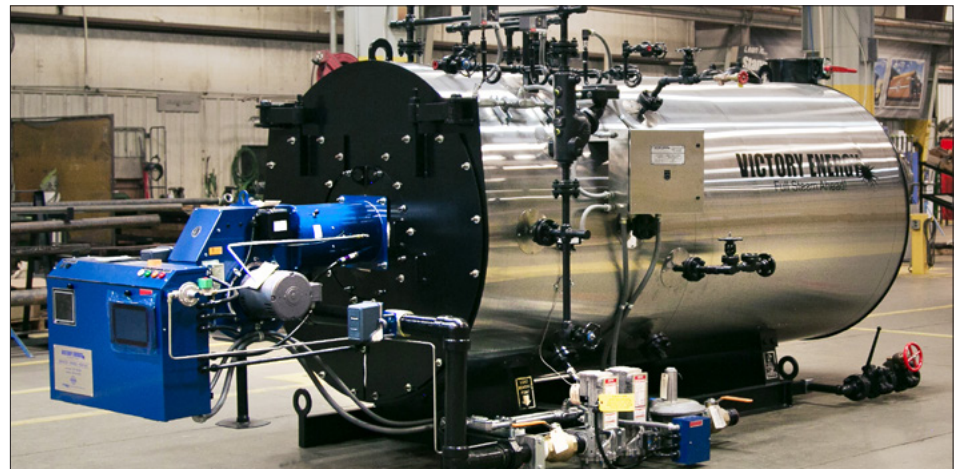
HP RANGES FROM 50 HP - 2,500 HP

3-PASS TECHNOLOGY

- Liberal steam disengaging area
- Rear flue gas outlet
- All standard boilers have rifled tubes in the second pass, improving overall thermal performance

DRYBACK DESIGN

- Full access to front and rear tubesheets for ease of maintenance
- Lower capital cost



SPECIAL REFRACTORY IS NEARLY IMPERVIOUS TO EXPANSION STRESS CRACKING

F3-DB FEATURES / OPTIONS

- ✓ Center-fired furnace
- ✓ Ring groove technology
- ✓ Front davited doors
- ✓ Rear davited entry door to furnace and entry of 2nd pass
- ✓ Large boilers come with two hinged rear doors for 3rd pass
- ✓ Heavy-duty gauge tubes - 0.105" MW
- ✓ .75-inch minimum tubesheet wall thickness
- ✓ Refractory-backed reversing chamber
- ✓ Heavy-duty steel frame
- ✓ Stainless steel jacket with 2-inch mineral wool insulation
- ✓ Note: Corrugated furnace will be offered on any size if high pressure designs are required and if customer prefers over plain furnace.



HEAT RECOVERY OPTION INCLUDES FACTORY INSTALLED INTEGRAL ECONOMIZER

OFFERED BY:

Powerhouse Combustion & Mechanical Corporation
3410 W. Maywood Avenue Santa Ana, CA 92704
www.powerhouse-combustion.com

FIRETUBE BOILER

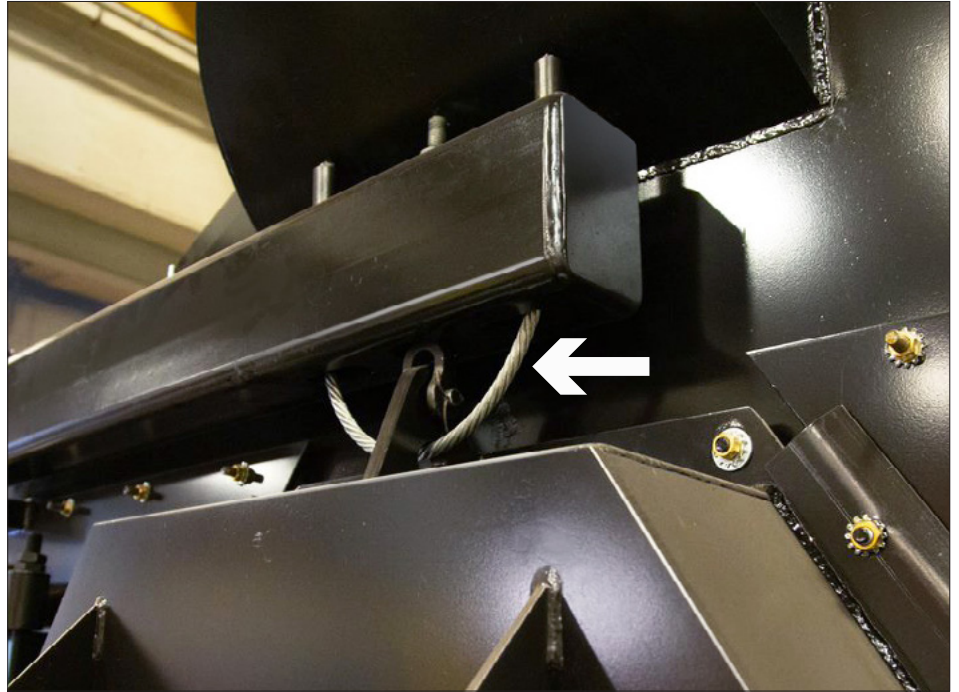
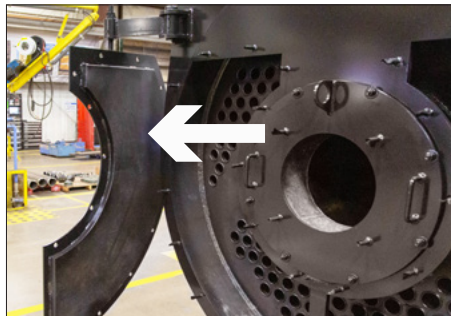
3-PASS DRYBACK

LARGE FURNACE

Generous furnace is suitable for all burners and fuels, also facilitates low emissions.

EROSION PROTECTION

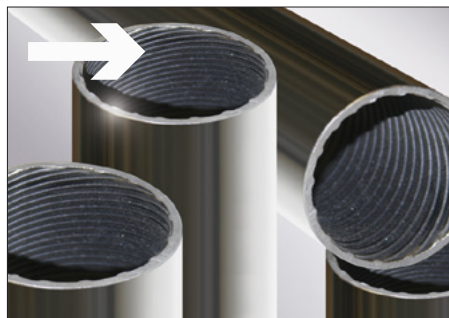
Rather than using hardener over insulation on davited doors, as most competitors do, Victory Energy takes the extra step of providing a high performance metal covering to protect insulation.



EXCLUSIVE HINGED DOOR SAFETY CABLE ASSEMBLY

RIFLED TUBES

Because of their internally rifled shape, the rifled tubes are more efficient. The rifling creates turbulent flow which enhances heat transfer between the fireside and the waterside.



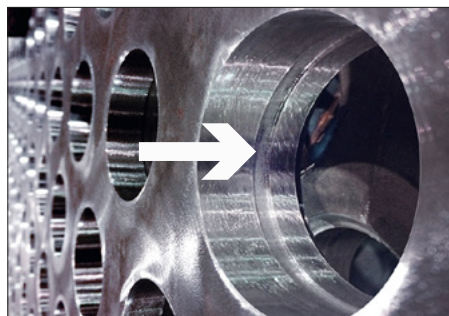
RIFLED TUBES

MINIMAL THERMAL STRESS

Less thermal stress means reduced maintenance and repair costs.

RING GROOVE ENGINEERING

Exclusive Victory Energy "ring groove" tube attachment results in a very robust tube to tubesheet connection. The added ring groove creates a 40% stronger joint.



RING GROOVE WITH 3/4 INCH LIGAMENTS



HEAVY-DUTY DAVITED DOOR AND HINGE ASSEMBLY

NOTE:

For dimensions and data info, contact your firetube rep for Document F3-DB-NE.

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