

○ FIRETUBE WETBACK BOILERS



Concept to Completion[®]

Excellence in the making

From the beginning, the goals of Victory Energy Operations, LLC have been to be a single-source solutions provider backed by world-class service. Today, we are a leading boiler supplier offering proven energy solutions through advanced technologies and state-of-the-art manufacturing.

No application is too small or too large. We thrive in an atmosphere of innovative thinking and breakthrough methodology. We carry this attitude forward from "Concept to Completion[®]" as we work closely with our customers, in-house engineering teams, in-house project management teams, fabrication personnel, manufacturing crews, logistics department and field technicians.

In addition to providing rock-solid solutions that are reliable and compliant with the most stringent technical requirements, we are constantly looking for ways to maximize the efficiencies and value of total integration for our customers and end users.



27,600 PPH - 800 HP - 300 PSIG - 3-pass packaged firetube boiler.



State-of-the-art manufacturing facilities and corporate offices are located just North of Tulsa, Oklahoma.

Quality materials and superior construction is essential to producing top of the line firetube systems that are, by design, engineered to be the most reliable boilers in the world.

Victory Energy offers a full range of standard and custom-engineered firetube systems that are designed to deliver proven performance and crucial efficiencies at a cost effective price.

Typical firetube Applications:

- Agricultural - Food Processing
- Institutional (Hospitals and Universities)
- Chemical
- General Processing and Manufacturing
- Power (Auxiliary Boilers)
- Textiles, Pulp and Paper



VE has ASME and NBIC Certificates of Authority to design, construct and repair pressure vessels.



High pressure wasteheat sulphur recovery boiler.



All work is managed by Victory Energy's ITP (Inspection Test Plan) to assure quality control.

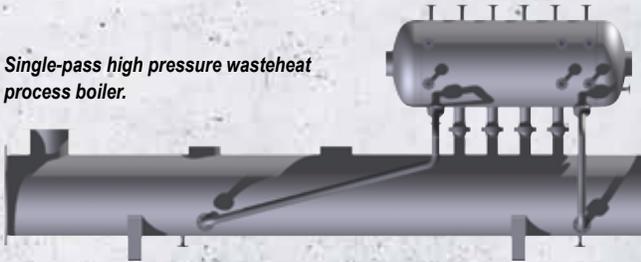
Proof is in the performance.

By design, the Frontier® Series firetube boilers are engineered and built for minimum maintenance and maximum output. Wall-to-wall super-structure in addition to rifled tubes ensure years of **extreme-duty** performance.



Single davit door provides easy furnace access.

Single-pass high pressure wasteheat process boiler.

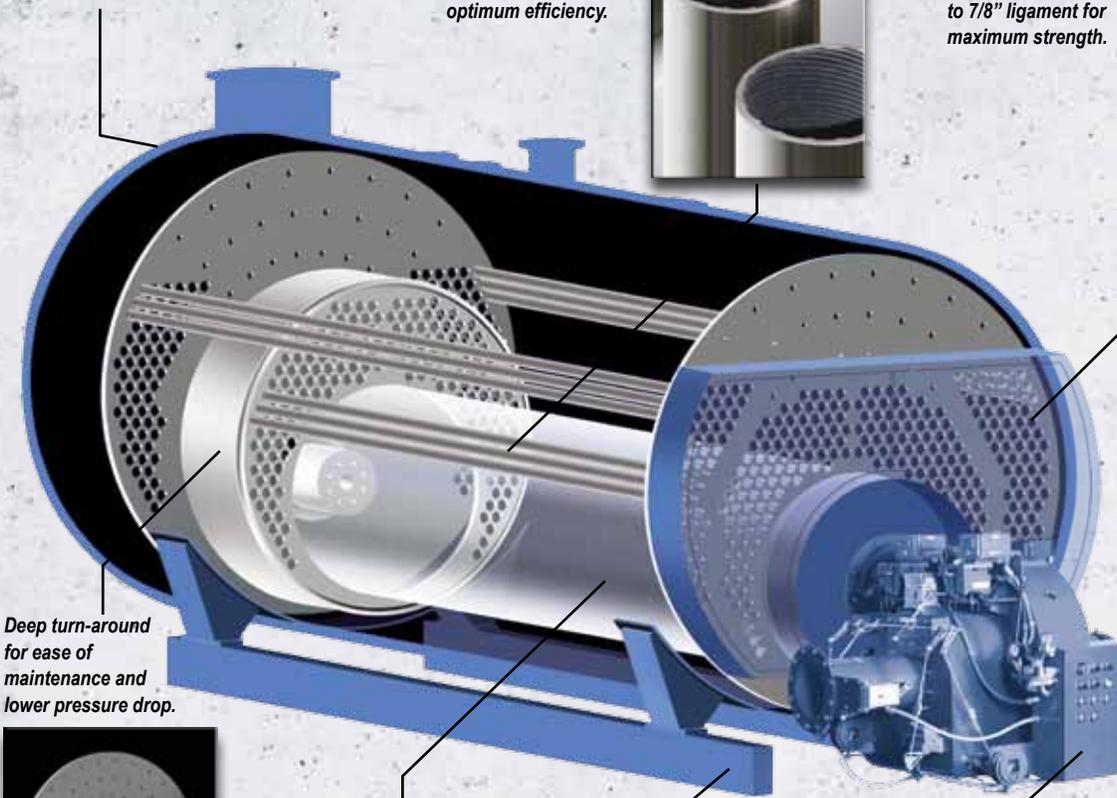


22-gage Galvanized Steel jacket with 2-inch Mineral Wool covering the entire shell.

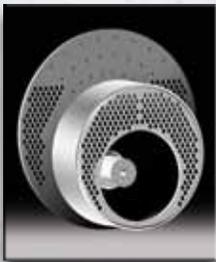
Rifled tubes are used on 3-pass boilers for optimum efficiency.



Tubes are rolled and beaded with a 3/4" to 7/8" ligament for maximum strength.



Deep turn-around for ease of maintenance and lower pressure drop.



Generous furnace volume assures complete, adequate combustion and lower NO_x levels.

Heavy (extreme) duty skid to support boiler package.

Burners will be factory mounted and come totally wired with required controls.



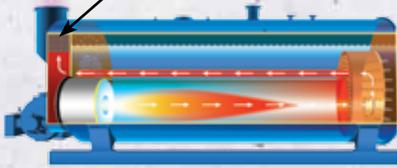
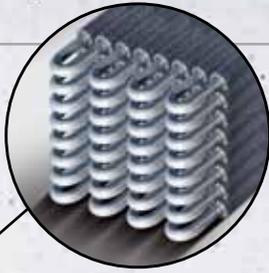
Double davit doors for minimum space requirements.



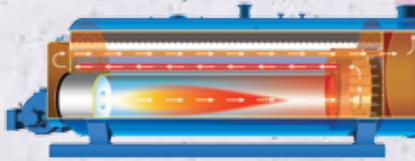
All 2-pass boilers include a shop-assembled enhanced heat recovery system which is also available for 3-pass boilers.



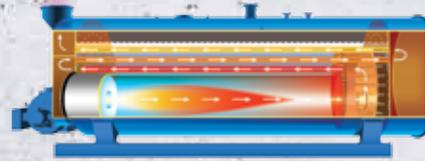
2-PASS WETBACK BOILER



3-PASS WETBACK BOILER



4-PASS WETBACK BOILER



MODEL	MAX CAP	HEIGHT	WIDTH	LENGTH
F2-200 ¹	6,900 PPH	104"	89"	209"
F2-250 ¹	8,625 PPH	104"	89"	235"
F2-300 ¹	10,350 PPH	108"	93"	243"
F2-350 ¹	12,075 PPH	114"	102"	240"
F2-400 ¹	13,800 PPH	114"	102"	258"
F2-500 ¹	17,250 PPH	124"	112"	258"
F2-600 ¹	20,700 PPH	124"	112"	282"
F2-700 ¹	24,150 PPH	128"	116"	290"
F2-750 ¹	25,875 PPH	128"	116"	302"
F2-800 ¹	27,600 PPH	128"	116"	316"
F2-900 ¹	31,050 PPH	134"	122"	296"
F2-1000 ¹	34,500 PPH	134"	122"	320"
F2-1100 ²	37,950 PPH	140"	125"	260"
F2-1200 ²	41,400 PPH	140"	125"	278"
F2-1300 ²	44,850 PPH	144"	129"	290"
F2-1400 ²	48,299 PPH	144"	129"	302"
F2-1500 ²	51,749 PPH	144"	129"	326"
F2-1600 ²	55,199 PPH	148"	133"	326"
F2-1700 ²	58,699 PPH	148"	133"	342"
F2-1800 ²	62,099 PPH	148"	133"	358"
F2-2000 ²	69,000 PPH	160"	147"	323"
F2-2200 ²	75,900 PPH	160"	147"	341"
F2-2500 ²	86,250 PPH	160"	147"	377"

Note: ¹200 thru 1,000 HP Dimensions are "overall" including burner.

Trim mounted on one side only.

²1100hp – 2,500 HP Dimensions do not include burner.

Burner selection will determine "overall" length.

Please contact Factory for specific dimensions.

For pressures exceeding 300 PSIG, please consult factory.

MODEL	MAX CAP	HEIGHT	WIDTH	LENGTH
F3-200 ¹	6,900 PPH	102"	90"	210"
F3-250 ¹	8,625 PPH	102"	90"	241"
F3-300 ¹	10,350 PPH	102"	90"	270"
F3-350 ¹	12,075 PPH	108"	99"	278"
F3-400 ¹	13,800 PPH	119"	110"	263"
F3-500 ¹	17,250 PPH	119"	110"	305"
F3-600 ¹	20,700 PPH	125"	116"	301"
F3-700 ¹	24,150 PPH	133"	124"	297"
F3-750 ¹	25,875 PPH	133"	124"	305"
F3-800 ¹	27,600 PPH	133"	124"	319"
F3-900 ¹	31,050 PPH	141"	132"	324"
F3-1000 ¹	34,500 PPH	141"	132"	343"
F3-1100 ²	37,950 PPH	153"	139"	303"
F3-1200 ²	41,400 PPH	153"	139"	313"
F3-1300 ²	44,850 PPH	153"	139"	323"
F3-1400 ²	48,299 PPH	165"	153"	319"
F3-1500 ²	51,749 PPH	165"	153"	325"
F3-1600 ²	55,199 PPH	165"	153"	341"
F3-1700 ²	58,649 PPH	165"	153"	355"
F3-1800 ²	62,099 PPH	165"	153"	371"
F3-2000 ²	69,000 PPH	169"	157"	390"
F3-2200 ²	75,900 PPH	169"	157"	390"
F3-2500 ²	86,250 PPH	169"	157"	390"

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MODEL	MAX CAP	HEIGHT	WIDTH	LENGTH
F4-200 ¹	6,900 PPH	102"	90"	216"
F4-250 ¹	8,625 PPH	102"	90"	248"
F4-300 ¹	10,350 PPH	108"	96"	242"
F4-350 ¹	12,075 PPH	108"	96"	270"
F4-400 ¹	13,800 PPH	119"	110"	251"
F4-500 ¹	17,250 PPH	119"	110"	290"
F4-600 ¹	20,700 PPH	125"	113"	303"
F4-700 ¹	24,150 PPH	133"	124"	287"
F4-750 ¹	25,875 PPH	133"	124"	300"
F4-800 ¹	27,600 PPH	141"	132"	300"
F4-900 ¹	31,050 PPH	141"	132"	313"
F4-1000 ¹	34,500 PPH	141"	132"	338"
F4-1100 ²	37,950 PPH	155"	139"	295"
F4-1200 ²	41,400 PPH	155"	139"	318"
F4-1300 ²	44,850 PPH	155"	139"	327"
F4-1400 ²	48,299 PPH	165"	153"	306"
F4-1500 ²	51,749 PPH	165"	153"	324"

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Please contact Factory for specific dimensions.

For pressures exceeding 300 PSIG, please consult factory.

FULL STEAM AHEAD!



25,875 PPH - 750 HP - 150 PSIG - 3-pass packaged firetube boiler.



676 PPH - 150 PSIG - single-pass wasteheat firetube system.



17,250 PPH - 200 PSIG - 3-pass packaged firetube.



Multi-pass 600 PSIG - sulphur wasteheat firetube system.



28,000 PPH - 150 PSIG - single-pass wasteheat firetube system.



25,875 PPH - 750 HP - 150 PSIG - 3-pass packaged firetube boiler.



**RECOVERED HEAT TRANSLATES
TO RESOURCES SAVED!**

Ancillary Equipment and Services

Heat Recovery Products are a vital part of our sustainability initiative and one of the many ways in which we provide integrated solutions to maximize waste heat recovery.

Victory Energy offers a complete suite of heat recovery products and ancillary equipment:

- EXPLORER® Economizers (rectangular & cylindrical)
- Condensing Economizers
- Waste heat oil heaters
- Steam coil and tubular air pre-heaters
- Liquid-liquid heat exchangers
- Duct burners
- Silencers
- Deaerators and BFW pumps
- Blowdown systems
- Combustion controls & burner management systems
- Fuel trains/racks
- Transitions, stacks, support steel, duct-work/casing for high and low temperature and dirty gas applications, expansion joints, Guillotine dampers and controls, diverters, valves and hoppers
- SCR system
- Complete boiler trim
- ASME code piping
- CO catalyst
- Spare parts
- Full-time (24/7) service, installation and start-up



VICTORY ENERGY®

FOLLOW A LEADER



www.victoryenergy.com

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