

VICTORY ENERGY

victoryenergy.com/watertube-boilers/o-type/

O-TYPE BOILER



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Victory Energy manufactures a full line of industrial watertube boilers. Suited for all industrial and institutional applications. We have hundreds of watertube boilers in operation worldwide.

VOYAGER Series O-type watertube boilers provide a rapid ramp rate. They're easy to ship, install, operate and maintain. Engineered and manufactured to be versatile and reliable.

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EXCELLENCE IN THE MAKING

From the beginning, the goals of Victory Energy 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.

Quality materials and superior construction are essential to producing industrial-duty boiler systems that are, by design, engineered to be the most reliable boilers in the world. Our approach to modularization is designed to maximize shop assembly while minimizing costly field labor and delivery time.



State-of-the-art manufacturing facilities are located just North of Tulsa, Okla.

From permanent full-scale installations to temporary mobile systems, Victory Energy offers custom-engineered solutions for all types of applications in all kinds of industries including, Petroleum, Utility/Power, Textiles/Pulp & Paper, Chemical Processing, Process Waste Heat, Institutional, District Heating, Ethanol, Oil Sands/Enhanced Oil Recovery and Thermal Solar projects.

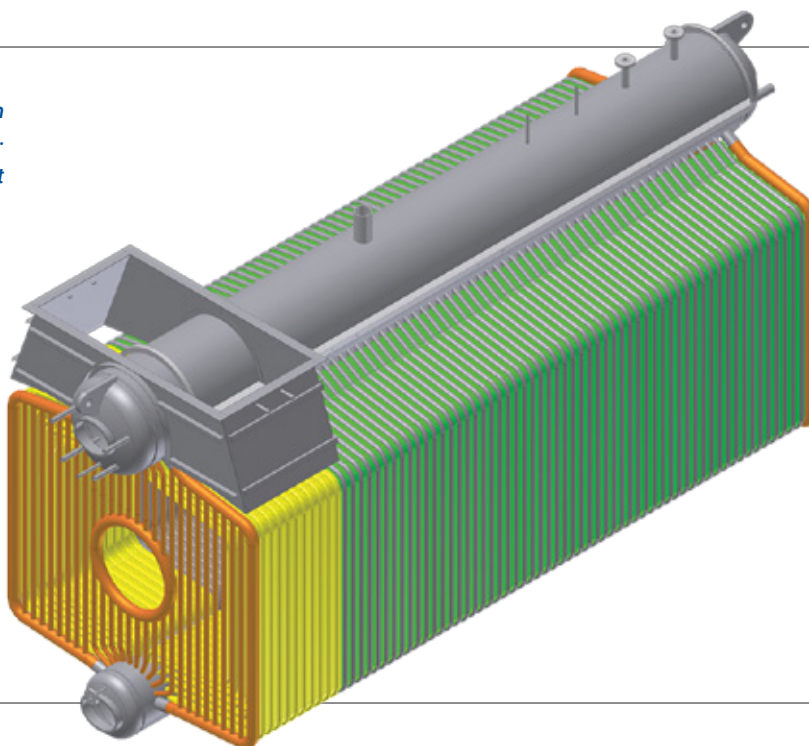
Large drums with proprietary internals and moisture separation provide the highest quality steam.

Total integration ensures efficient interaction of all components.



Easy access is provided through manways at both ends of the drums.

Large, welded water-cooled, gas-tight furnace areas are designed to yield optimum emissions performance, boiler reliability, and longevity with reduced maintenance costs.



Each boiler is custom engineered and modeled with a complete circulation analysis.

High service factors for extreme-duty applications.

Fully welded gas seals are used throughout, eliminating concerns of hot spots.

Fully membrane boiler reduces CO emissions due to bypassing.

Boilers are 100% water cooled and refractory free front and rear walls.

Conservatively designed tube layouts, coupled with large drums, provide flexibility for all operational conditions.

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O-TYPE WATERTUBE BOILER

The Victory Energy VOYAGER® O-style Boiler is designed to provide a rapid ramp rate and is easy to ship, install, operate and maintain. These versatile robust boilers have become very popular for applications that are extremely demanding in harsh environments. It's symmetrical configuration is ideally suited for restrictive floor plans, while the gas outlet allows the addition of an enhanced heat recovery system in a vertical configuration to ensure a slim footprint.

Each VOYAGER O-style Boiler is custom engineered with constructability in mind. Steam capacities range from 10,000 PPH up to 500,000 PPH, design pressures from 250 PSIG to 2,000 PSIG with saturated and superheat temperatures up to 1,050 degrees F.



MODEL	MAX CAP	HEIGHT	WIDTH	LENGTH
VS-1	25,000 PPH	13'-7"	8'-9"	14'-0"
VS-2	37,000 PPH	13'-7"	9'-8 3/4"	16'-6"
VS-3	55,000 PPH	13'-11 3/4"	10'-5 3/4"	19'-6"
VSM-75	75,000 PPH	14'-0 7/8"	11'-9 3/4"	22'-7"
VS-4	85,000 PPH	14'-7 3/4"	11'-9 1/2"	25'-10"
VS-5	127,000 PPH	15'-1 3/4"	12'-6 1/2"	32'-2"
VS-6	165,000 PPH	16'-1 7/8"	12'-10 1/2"	35'-2"
VS-7	250,000 PPH	17'-4"	12'-11"	42'-6"
VS-8	300,000 PPH	Varies with operational requirements		

Larger sizes are available with barge shipments.

FUELS: NATURAL GAS, BIO GAS, OFF-GASSES OR #2 - #6 OIL



All fired boilers come with low NO_x burners that are state-of-the-art and fuel-efficient.



Gas outlets are insulated with 8-lb. high density wool for improved efficiencies and safety.



Drum heads are assembled with ceramic insulation covered with carbon steel.

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O-TYPE BOILER

VOYAGER
series

ABMA
American Boiler Manufacturers Association



Custom-engineered VOYAGER® A-type boiler.



On-site Railway capabilities for over-sized projects.



Superheaters are available with a variety of configuration.



Fully customized control systems, utilizing the latest PLC technology.



Fully integrated TITAN® water level equipment.



VOYAGER® O-type boiler with EXPLORER® economizer installed.

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ANCILLARY EQUIPMENT

Victory Energy can provide a complete suite of ancillary equipment to maximize the value of our products.

- **Duct-work**
- **Transitions including D-type transitions**
- **Support steel to elevate units off-grade**
- **Stack**
- **Controls**
- **Dampers**
- **Expansion joints**

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



THE POWER OF ONE EXTRA DEGREE!

Our commitment to the 212 Principle continues to drive our dedication to customer satisfaction.

The 212 Principle

At 211 degrees, water is hot.

At 212 degrees, it boils.

And with boiling water, comes steam.

And with steam, we power the progress of change.



1-877-783-2665