

FIRETUBE MARKET-LEADING FEATURES & BENEFITS

Extreme-Duty Design

Up to 2,500 HP



BOILER TYPES OFFERED

- F2-WB WITH IE*
- F3-WB – OPTIONAL IE*
- F4-WB
- F2-DB W/ OR W/O IE*
- F3-DB W/ OR W/O IE*
- F4-DB

* IE (Internal Economizer)

FURNACE

DIAMETER AND LENGTH: The average size of our furnace is **21% greater** than competitors, and because our shell is usually longer, so is the furnace. Since the flame must be contained in the furnace, our larger dimensions make proper burner performance easier to obtain.

HEAT RELEASE: Our published heat release data is for the furnace only - *the most conservative in the industry.*

Other boiler manufacturers include the rear turnaround volume to get numbers close to Victory. Our lower BTU per cubic foot means less stress and scaling on the furnace, resulting in longer life with increased efficiency.

HANDHOLES

No matter how well a boiler is manufactured at some point you may need to re-tube it. Victory includes handholes in the front tubesheet to assist with this process. Without these handholes you can't get the tubes out unless you cut the tubesheet. The repair is potentially compromised and the costs can be excessive because the boiler needs to be ASME Certified once the repair is complete. We manufacture boilers you can easily maintain.

TUBESHEETS

THICKNESS: On average, Victory's tubesheets are **40% thicker** than those of the competition — delivering enhanced strength and protection against corrosion. The chance of cracking one of ours is much lower than a boiler with a thin tubesheet.

Victory also includes a serration on all tube holes, this creates a **47% stronger** pull strength.

TUBES

THICKNESS: Our standard offering of .109" thick wall tubes are almost **15% thicker** than those used by other manufacturers. That's **15% more corrosion allowance and strength!**

NUMBER: Because of the larger shell, we can use fewer tubes. This means a higher velocity for heat transfer. It also means less maintenance.

DEGREASED: All tubes are thoroughly degreased before installation giving a better seal and less contaminants in the boiler when you receive it.

BURNERS

CHOICES: There are a number of manufacturers that make quality burners. We won't tell you which brand you must buy from us. The best choice is Victory VISION®, however, we work with Power/Flame, Oilon, Limpshield and Wellsharpt, etc.

FIRE TESTED: Every boiler that leaves our plant can be completely factory fire tested. All components are tested and the proper air to fuel ratios are checked. It has been proven that factory fire testing can reduce field commissioning time by over 50%.



Optional built-in Integral Economizer (IE) heat recovery system is available for 2 and 3-pass designs with horsepower ratings from 100 HP to 2,500 HP.



SHELL

THICKNESS: On average, our shell is **8% thicker** than the competition. This means longer life and added strength!!

DIAMETER: Our shell is **12% larger in diameter** than other manufacturer's boilers. We have more water to "flash" into steam, so steam pressure is better maintained during off cycles.

INSULATION

MATERIAL: Victory Energy uses Mineral Wool insulation as our standard. Mineral Wool is firmer and more efficient than fiberglass insulation used by some of our competitors. As a result, fewer BTUs escape into the room and more stay within the boiler. We also take it a step further by fully insulating the entire boiler – not just the upper two-thirds, as some manufacturers do.