

TUBESHEETS

THICKNESS: Superior's Tubesheets are on average 40% thicker for added strength and corrosion protection. The chance of cracking is greatly reduced compared to boilers with thinner tubesheets.

HANDHOLES

No matter how well a boiler is built, at some point re-tubing may be necessary. Superior makes this maintenance easier by putting hand holes in the front tubesheet, allowing for removal of tubes WITHOUT having to cut the tubesheet. Superior knows that cutting the tubesheet means the repair will be lower quality and more costly because the boiler will need to be ASME certified once the repair is complete.

BURNERS

CHOICE: There are a number of manufacturers making quality burners. Power Flame, Webster, Weishaupt, and Oilon just to name a few. We design our boilers to be burner neutral so that the choice is yours.

FIRETEST: Every packaged boiler/burner that leaves our plant can be completely fire tested. All components are tested and the proper air-to-fuel ratios are checked. Taking the time for this important step helps us identify & resolve any issues that would otherwise create delays at startup.

SHELL

THICKNESS: Our shell averages 8% thicker than our competition. This means longer life and adds strength.

DIAMETER: Our shell has 12% greater diameter than boilers from other manufacturers. With more water volume to 'flash' into steam, steam pressure is better maintained during off cycles.

TUBES

THICKNESS: Tube walls are .105" thick, almost 10% thicker than those used by other manufacturers. That's 10% more corrosion allowance and strength.

NUMBER: Larger shell and fewer tubes means better heat transfer, less and easier maintenance.

DE-GREASED: Tubes are supplied on-demand, not oil coated for long term storage. This aides in installation, giving a better seal, with less contaminants in the finished boiler.

FURNACE

DIAMETER & LENGTH: The average size of our furnace is 21% greater than other boilers. Since the flame must be contained in the furnace, our larger dimensions make proper burner performance easier to obtain. This is critical for Low NOx applications.

HEAT RELEASE: Our published heat release data is for the furnace only. Other boiler manufacturers include the rear turnaround volume to get numbers close to Superior. Our lower BTU per cubic foot means less stress and scaling on the furnace, greater efficiency, and longer life.

INSULATION

MATERIAL: Superior chooses to FULLY insulate our boilers (not just the upper two-thirds as some manufacturers do) using mineral wool insulation instead of fiberglass for its higher 'R' factor and density. More heat retained = greater efficiency.



Represented by



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