STRESS-FREE, RAPID & RELIABLE STEAM GENERATION

HIGH EFFICIENCY STEAM PRODUCTION WITH THE LOWEST TOTAL COST OF OWNERSHIP

Fulton Steam Solutions, LLC
972 Centerville Road
Pulaski, New York 13142
(315) 298-5121

FULTON'S VERTICAL STEAM BOILERS ARE CAPABLE OF CREATING STEAM IN LESS THAN 10 MINUTES

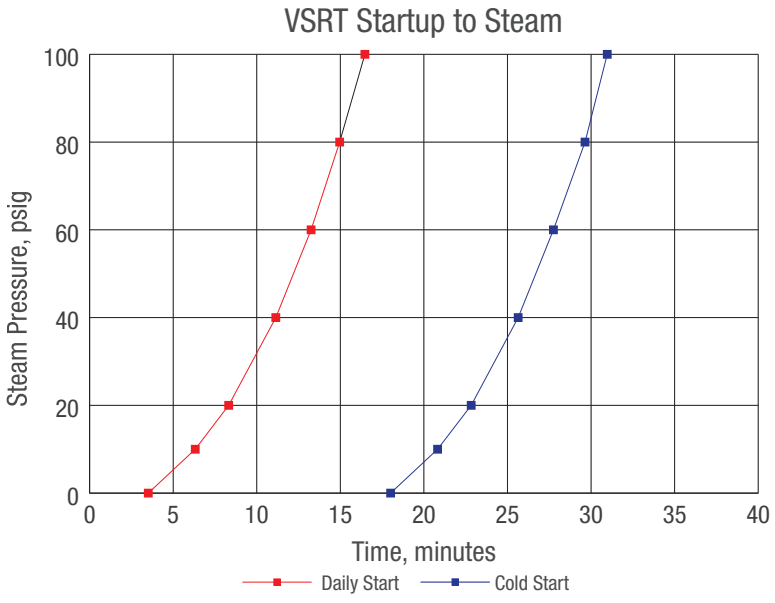
- The low thermal stress design eliminates thermal shock concerns.
- Extremely low jacket losses result in minimal heat losses during off cycles or overnight shut down.
- This results in very rapid daily start up.
- The optimized water content allows peak load demands to be met with ease.
- All backed by Fulton's industry leading pressure vessel warranties.

FAST STEAMING CAPABILITY, <10 MINUTES

Full steam capacity can be made in less than 10 minutes from a daily start.

Vertical tubeless boilers can create full output steam in less than 20 minutes from a cold start.

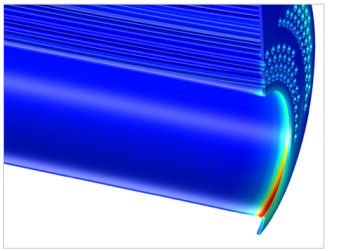
This results in the highest seasonal efficiencies being achieved.



LOW THERMAL STRESS DESIGN PERMITS RAPID STEAMING

The low thermal stress design of the VSRT allows the boiler to fire at full modulation rate from a cold start with no concern of damaging the heat exchanger.

VSRT 250 STRESS ANALYSIS

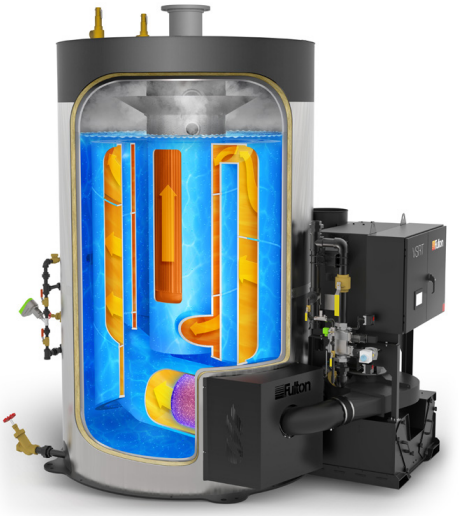


HORIZONTAL FIRETUBE STRESS ANALYSIS

Horizontal firetube steam boilers can generate significant stresses on the firetubes and tubesheets. Low fire hold and gradual heating of the boiler is required to prevent a failure. This results in many hours of heat up and inefficiency.

LOW STANDBY LOSS PERMITS RAPID STEAMING

- Vertical boilers will lose only minimal heat during the off cycle allowing the boiler to quickly react when steam is called for.
- Vertical boilers have a standby loss of <0.25% of rating.
- Fulton's vertical boilers are fully water backed, physically small and well insulated.



OPTIMIZED WATER CONTENT

VSRT–250 HP	TYPICAL 250 HP WATER TUBE
1,968 lbs flash reserve	158 lbs flash reserve

Unlike water tube designs, vertical steam boilers have a large water volume which provides:

- A large flash reserve of energy available to easily react to quickly changing and peak load demands. A steady steam pressure supply is provided during rapid load changes.
- Greater resiliency to failure due to water chemistry.

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Find your solution at:
www.fulton.com

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