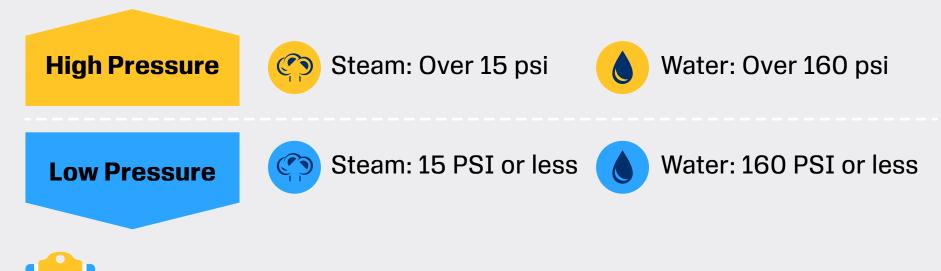
Risky Business What You Need To Know About...

Boilers

What is a Boiler?

A boiler is defined as a closed vessel in which water is heated or circulated, either as hot water or as steam, for heating or power. It can be categorized as either high pressure or low pressure.





High pressure boilers are required to be built to a different construction code than low pressure, due to their higher energy potential

The Primary Uses for Commercial Boilers

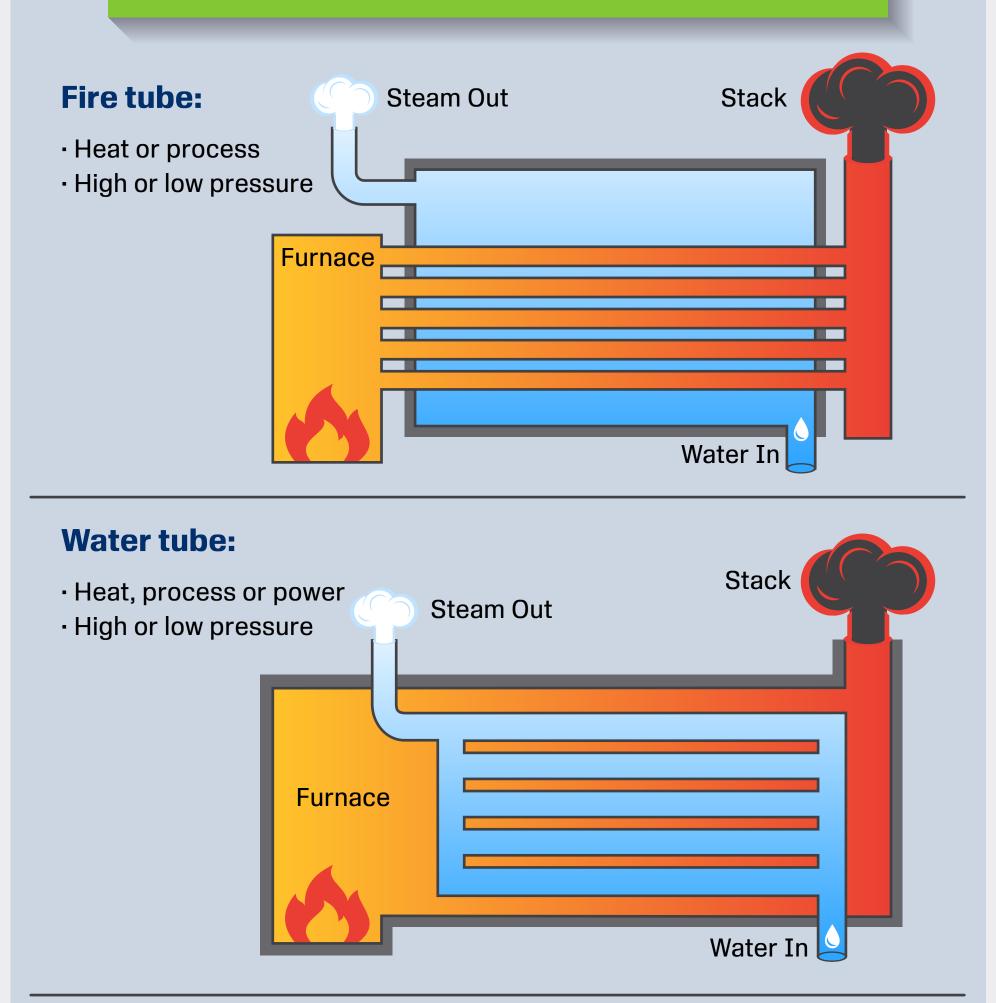




Process and Manufacturing

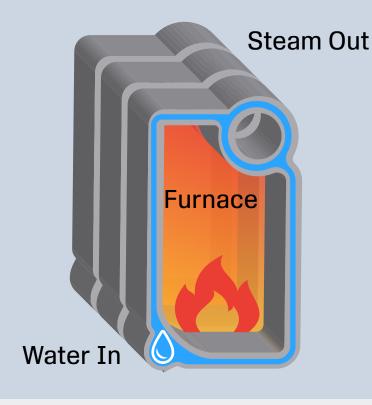


Three Main Types of Boilers:



Cast iron sectional:

- Heat only
- · Low pressure only



Top Causes of Boiler Breakdown:



Scale and sediment buildup causes overheating



Automatic control or safety device failure



Thermal shock

Contributing Causes of Boiler Losses:



Lack of Maintenance



Improper Testing



Preventive Maintenance:

How to protect your boiler from loss



Check boiler conditions every time you visit the boiler room



Arrange for a qualified boiler technician to service the boiler annually



Blowdown bottom drain valves and water columns regularly to remove sediment



Use qualified and trained operators



Ensure that boiler water chemistry is optimal to hinder corrosion and/or scale formation



Test boiler automatic controls and safety devices regularly—low water fuel cut-offs, safety relief valves, temperature and pressure switches, fuel combustion safety controls



Boiler Re