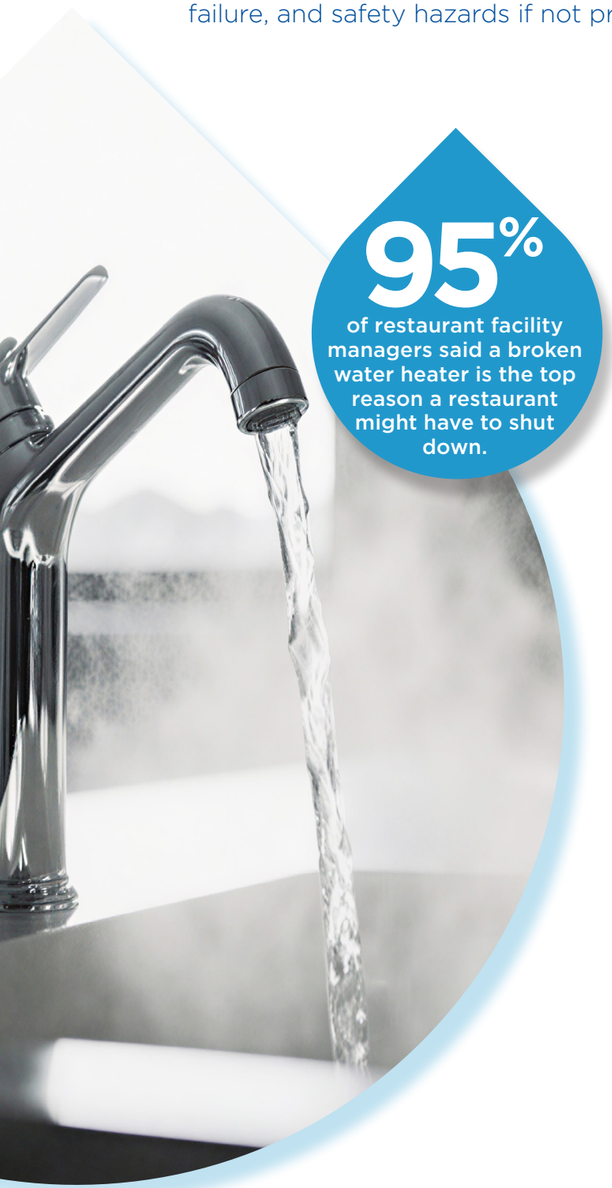
APPLICATION

WATER HEATERS & BOILERS

Commercial facilities like hotels, hospitals, restaurants, gyms, and schools rely on hot water heaters and boilers for heating, sanitation, and laundry, placing immense demands on the equipment. Common water-related issues include scaling, corrosion, fouling, and sludge buildup, which can lead to reduced efficiency, equipment failure, and safety hazards if not properly addressed.



95%
of restaurant facility managers said a broken water heater is the top reason a restaurant might have to shut down.

COMMON PROBLEMS:

- **Scaling** The accumulation of mineral deposits, primarily calcium carbonate and magnesium carbonate, on internal surfaces. This is most common in areas with hard water.
- **Corrosion** The electrochemical breakdown of metal components due to chemical reactions. In hot water systems, it is often caused by high levels of dissolved oxygen, chlorides, or low pH (acidic water).
- **Fouling and sediment buildup** The accumulation of suspended solids, such as dirt, clay, silica and loose mineral precipitates (sludge), on surfaces inside the tank or boiler.

SOLUTION:

FILTRATION AND SOFTENING

How it works: Various types of filters are used to physically remove sediment, organic material, and other suspended solids from the water. This system is also compatible with tankless water heaters, ensuring clean, quality water without compromising performance.

Purpose: Removes the “building blocks” of sludge and fouling, helping to keep system surfaces and passages clear.

Benefit: Extends the life of chemical treatments and reduces the need for frequent cleaning.

*Source: Plumbing & Mechanical PMmag.com

COMMON CONSEQUENCES::

Hardness = Scaling	Deposits act as an insulator, reducing heat transfer and causing the system to consume more energy to reach the desired temperature.
Chlorine = Corrosion	Corrosion can lead to leaks, weakened structural integrity, and equipment failure. It can also produce discolored or rusty water.
TDS = Fouling and Sediment Buildup	Fouling can obstruct heat transfer surfaces, restrict water flow, and increase system pressure, all of which reduce efficiency.

FILTERS: CRS | **FILTERS: CP 213f OD** | **CP SERIES SOFTENERS** | **HYDRUS SERIES SOFTENERS**

EQUIPMENT PROTECTION

- Ensures Compliance & Warranty Protection
- Remove contaminants to prolong equipment life and reduce service calls
- Minimize equipment downtime by removing particulates and sediment
- Prevents Scale Buildup
- Protects Against Corrosion
- Improves Heat Transfer Efficiency