

# PROFESSIONAL UNFIRED PRESSURE VESSEL MAKER

## INTRODUCTION

softener is a device used to treat water that enters a boiler system, primarily to remove minerals like calcium and magnesium that cause hardness in water



**CUSTOMIZED  
SOLUTION**



**DOSH  
APPROVED  
DESIGN**

## STAINLESS STEEL SOFTENER

### 3D ILLUSTRATION



#### KEY BENEFITS

- Preventing scale buildup.
- Improving efficiency.
- Reducing energy costs.
- Efficient designs & Simple Operation

#### Applications

- Industrial Boiler
- Power Plants
- HVAC Systems
- Food & Beverage Industries
- Cooling Towers.

Please note that every nozzle position is customizable and outlet/spare nozzle can be added on upon request.



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Please note that shell length and shell diameter are both customizable depending on the end user's site requirement.

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## SPECIFICATION

**DESIGN TEMPERATURE**  
2°C to 45°C,  
customs

**INLET PRESSURE**  
0.2-0.6MPa

**OPERATING PRESSURE**  
0.3-0.6MPa

### MATERIAL

SA-516 70 (Carbon Steel)  
SA-240 304 (Stainless Steel)  
SA-240 316 (Stainless Steel)

## CONTACT

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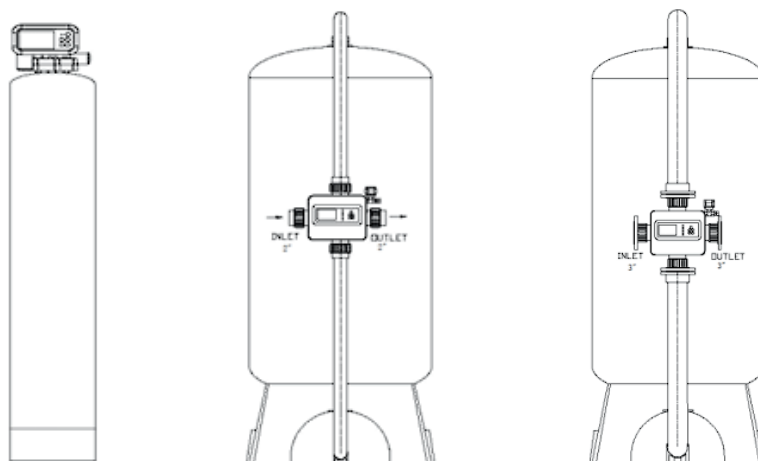
## HOW IT WORKS?

- Ion Exchange: Water flows through a resin bed, exchanging hardness-causing calcium and magnesium ions for sodium or potassium ions.
- Regeneration: The resin bed becomes saturated with hardness minerals and is regenerated by flushing it with salt (sodium chloride) to replace them with sodium ions.

## SOFTENER FEATURES

- Regeneration Cycle
- Ion Exchange Resin
- Automatic Regeneration Control
- Pre-Filter or Sediment Filter
- Compact Design
- Corrosion-Resistant Materials

## VESSEL CONFIGURATION



Model	Pipe (Inch)		Flow Rates (m <sup>3</sup> /h)
	main	inlet/outlet	
W.S 004	1	1	4
W.S 008	2	1	8
W.S 015	3	1	15
W.S 020	3	3	20
SIZE IS CUSTOMIZABLE UPON REQUEST			

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