

Tank Booster Pro™

Water Heater Mixing Valve



Comfort

Easy add on water heater accessory that increases usable hot water on existing water heaters and new energy efficient water heaters.



Protection

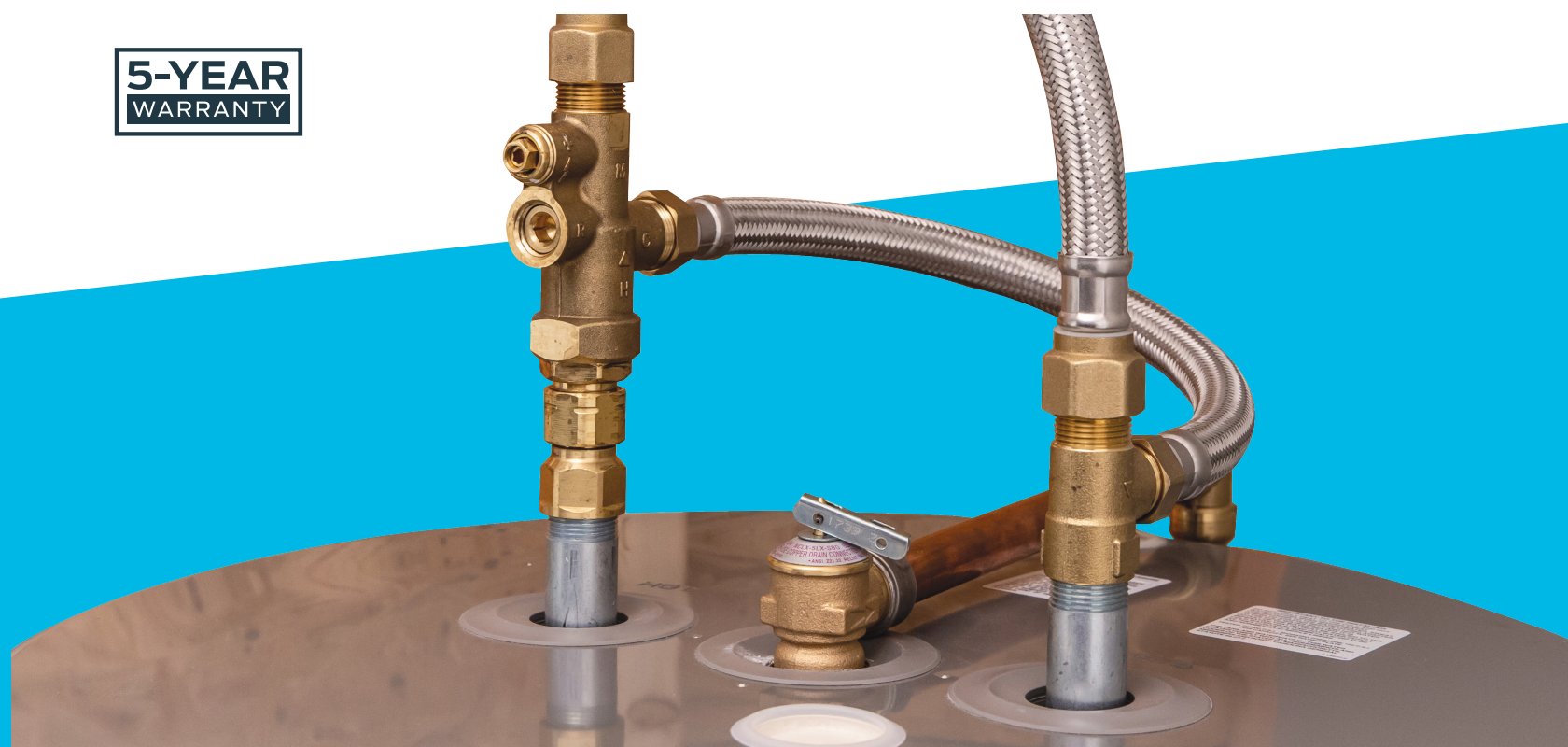
Controls hot water to prevent injury from scalding when showering, bathing or washing by ensuring water is delivered at a safe temperature to all fixtures. Certified to ASSE 1017, ASSE 1070 and CSA B125.3



Safety

Reduces the risk of legionella bacteria growth by enabling hot water to be stored at a germ killing 60°C (140°F), while ensuring that water is delivered at a safe temperature to outlets.

SKU	Size	Description	Lead Free	Factory Setting
24639	3/4 in.	Tank Booster Pro with Corrugated Hose (wholesale)	✓	115-120 °F (46-48.9 °C)
24832	3/4 in.	Tank Booster Pro with Braided Hose (wholesale)	✓	115-120 °F (46-48.9 °C)



Getting More Hot Water

Installing a Tank Booster Pro increases the amount of usable hot water by as high as 234% on gas water heaters and 125% on electric water heaters. The amount of hot water available may change based on the size and manufacturer of the water heater, flow rate and the cold water inlet temperature.

Percentage Increase of Hot Water – Electric Water Heater				
Hot Water Tank Storage Temperature	Cold Water Inlet Temperature			
	3.9°C (39°F)	13°C (55°F)	18°C (65°F)	26.7°C (80°F)
49°C (120°F)				
60°C (140°F)	41%	42%	57%	60%
71°C (160°F)	82%	92%	96%	125%

Percentage increase compared to tank with water heater stored at 49°C (120°F) and water drawn at a steady rate of 3 gallons per minute until the outlet temperature dropped by 10°C. (Based on results at an independent test laboratory—CSA International on a 40 gallon electric water heater.)

Percentage Increase Of Hot Water – Gas Water Heater				
Hot Water Tank Storage Temperature	Cold Water Inlet Temperature			
	3.9°C (39°F)	13°C (55°F)	18°C (65°F)	26.7°C (80°F)
49°C (120°F)				
60°C (140°F)	42%	51%	68%	174%
71°C (160°F)	72%	104%	117%	234%

Percentage increase compared to tank with water heater stored at 49°C (120°F) and water drawn at a steady rate of 3 gallons per minute until the outlet temperature dropped by 10°C. (Based on results at an independent test laboratory—CSA International on a 40 gallon gas water heater.)

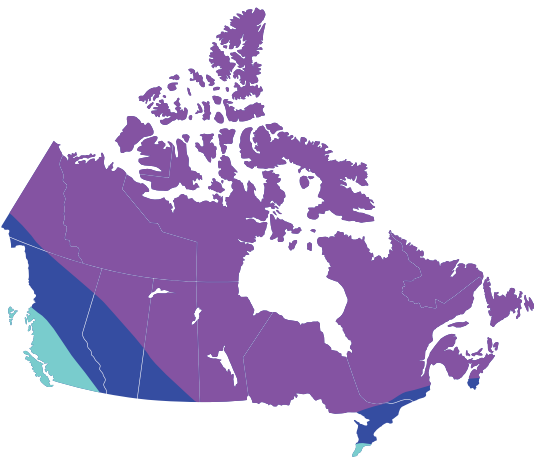
How It Works

The Tank Booster Pro is a mixing valve that combines hot and cold water to ensure that water is delivered at a constant safe temperature to outlet fixtures such as showers, baths and faucets.

This means that the temperature of the water heater can be increased to 60°C (140°F) without the risk of scalding. The hotter 60°C (140°F) water mixes with cold water until it can be released from the valve at a safe 49°C (120°F). Mixing the hot water with cold water means that less hot water is drawn from the water heater, therefore boosting the water heater’s capacity and the amount of useable hot water for the home.

Ground Water Temperatures

Degrees in Celsius 3 6 8 11 14 17 19 22 25



Time/Temperature Relationships in Scalds		
Temperature	Time for a Mild First Degree Burn	Time For Permanent Second Degree Burn
49°C (120°F)	3 minutes	9 minutes
50°C (122°F)	1 minute	5 minutes
52°C (125°F)	30 Seconds	90 seconds
55°C (131°F)	5 seconds	25 seconds
60°C (140°F)	2 seconds	5 seconds
65°C (149°F)	1 second	2 seconds

It only takes seconds for hot water to burn or scald, and it can happen even quicker with young children. Include a Tank Booster Pro mixing valve with water heater installations to prevent scalding and ensure that water is delivered at a safe temperature to all outlet fixtures.