

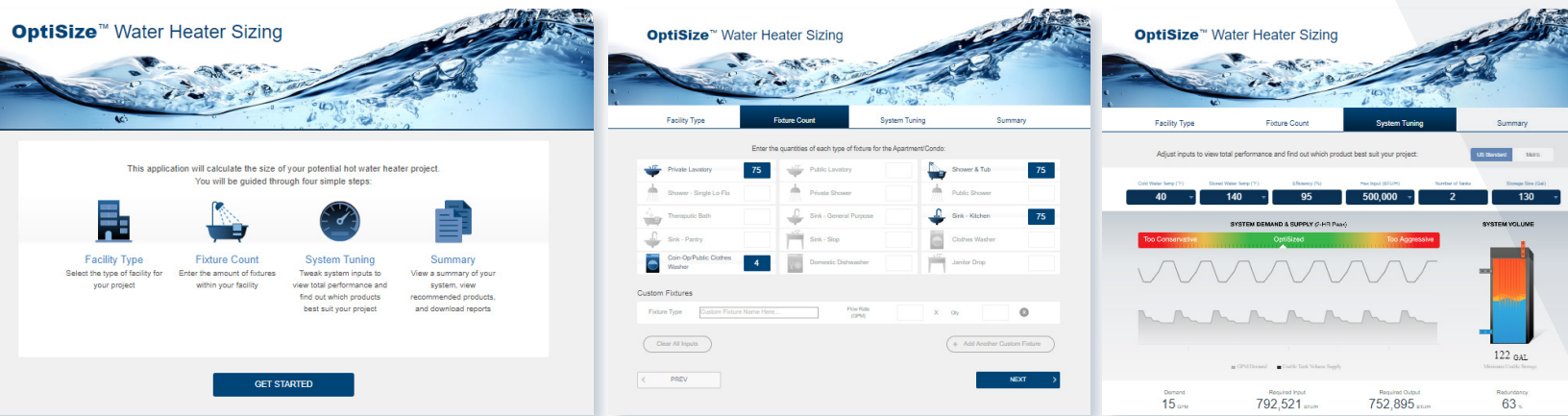
## Dynamic Water Heating Delivers a Perfectly Balanced, Right-Sized System

With today's shift in water heating systems towards lower flow fixtures, higher system temperatures and increased input-to-storage ratios, PVI's Dynamic Water Heating™ combines the advantages of both instantaneous and storage water heaters to deliver a "right-sized" system that provides:


- Lower operational costs
- Longer service life
- Compact footprint
- Legionella mitigation
- Superior temperature control

### OptiSize

Our easy-to-use OptiSize™ sizing application (pvi.com/optisize) will help you quickly calculate the size of your next project and select an optimally-sized water heater with the perfect ratio of BTU input to storage – not too aggressive and not too conservative. What you'll get is an OptiSized water heater that delivers safe, reliable hot water, reduced cost of ownership, effective Legionella mitigation and precise temperature control.



**Recommended Product**



**Conquest®**

Model: 50 L 130A-GCML  
 Efficiency: Up to 97%  
 Inputs: 500,000 BTU/H  
 Storage: 130 Gallons

Operating Control: Electronic touch screen with status and plain text diagnostics. Modbus is standard.

- 100% AquaPLEX tank and heating surfaces
- No lining required
- < 20 ppm NOx, SCAQMD compliant
- Vents through PVC or Polypropylene
- 15 year warranty

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Get the App **PVI OptiSize™**



Or visit [pvi.com/resources/optisize](http://pvi.com/resources/optisize)

## Features and Benefits

Our Dynamic Water Heating solutions range in size from 199-2000 MBH with 25-200 gallon storage and provide several benefits including:



### Lower Operational Costs

By utilizing BTU input to generate hot water, dynamic water heaters rely on storage only as a supplemental hot water source, which results in lower standby heat losses. Unlike instantaneous water tube heaters, which can require multiple units to meet over-drive demands, Dynamic water heaters can meet such requirements with a single unit by increasing the flow rate to 25 gpm for short periods.



### Longer Service Life

All PVI Dynamic water heaters are constructed from PVI's AquaPLEX® duplex stainless steel alloy, which is highly resistant to corrosion and requires no tank lining or anodes. While glass-lined tanks are prone to cracking and premature failure, dynamic water heaters' AquaPLEX construction helps ensure your system and equipment last longer.



### Compact Footprint

Dynamic water heaters are small enough to fit through standard a 36-inch doorway, making them ideal for retrofit and new construction projects. Small storage tanks ranging from 25 to 200-gallons also help to buffer against demand spikes. Installation is easier than traditional storage water heaters and the units occupy less floor space. Dynamic water heaters are available from 199 to 2000 MBH.



### Legionella Mitigation

Our water heaters help mitigate Legionella risks in domestic hot water by providing a 140°F setpoint to neutralize harmful bacteria. All stored water is turned over four times an hour to replenish fresh water and continuously introduce water with free chlorine for disinfection. Dynamic water heaters have less internal surface area to water volume than tube water instantaneous heaters, which helps to preserve free chlorine for additional Legionella protection.



### Superior Temperature Control

Dynamic water heaters control outlet water temperature within a narrow range due to the buffering effect of available stored water. Moderate modulation of 4-to-1 and higher provides additional temperature control by adjusting the burner's BTU input in relation to the hot water temperature. No minimum flow rate is required, ensuring hot water is always available.

Contact your PVI sales representative or [sales@pvi.com](mailto:sales@pvi.com) to discuss how Dynamic Water Heating solutions and OptiSize can help you with your next project.



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Hot Water Solutions

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