

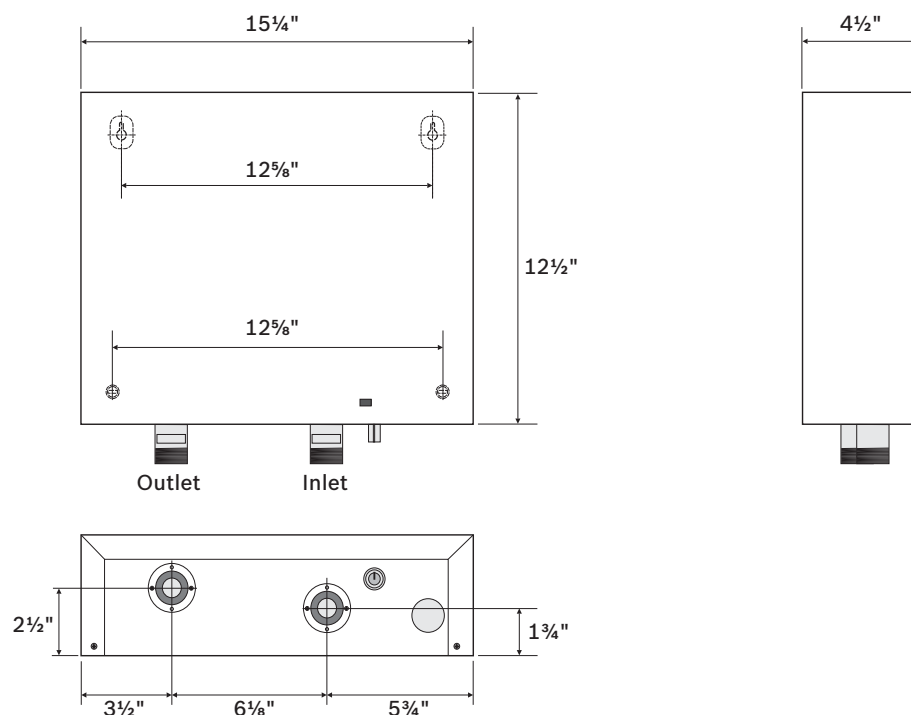
TRONIC WH17 & WH27 Electric Tankless Water Heaters

Engineering
Submittal
Sheet



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Dimensions



Engineering Specifications

Water heater shall be a Model TRONIC WH17 or, WH27.

Installation shall consist of ___Model TRONIC WH17 electric tankless water heaters as distributed by Bosch Thermotechnology Corp. and 99% thermal efficiency. Supply voltage shall be 240VAC (208VAC, 220VAC) with a maximum output of 17.25kW.

Installation shall consist of ___Model TRONIC WH27 electric tankless water heaters as distributed by Bosch Thermotechnology Corp. with a thermal efficiency of 99%. Supply voltage shall be 240VAC (208VAC, 220VAC) with a maximum output of 26.85kW.

The tankless water heaters shall be UL listed for the US and Canada and UPC certified.

CONSTRUCTION

Water heater shall be electricity powered with compact tankless design for whole house operation and an efficiency rating of 97%. Primary heat exchanger shall be made from composite material and the elements shall be made from sheathed copper. Unit shall be protected by a tough sheet metal housing. Heat exchanger shall be rated for maximum working pressure not less than 150 psig. Water heater shall be equipped with a flow turbine. Water connections for inlet and outlet shall be $\frac{3}{4}"$ NPT male.

The controls shall contain an external output temperature selector and a high temperature safety cut-out. Unit shall be equipped with a flow turbine and a temperature sensor for constant output temperature. A red light shall indicate when the unit is powering one or more elements.

TRONIC WH17 & WH27

Electric Tankless Water Heaters



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Engineering Specifications

INSTALLATION

All aspects of installation of Water Heater Plant shall be in strict accordance with manufacturer's instructions. Materials shall conform to all manufacturer's recommendations including electrical connections and wiring.

Water heater piping shall be field constructed of materials as specified. Water heater shall be installed with individually isolating shutoff valves for service and maintenance.



MODE OF OPERATION

The heater shall include integral factory wired operating controls to control all operation and energy input. Control of

discharge water temperature shall be set through an internal set point with a field adjustment of 95 to 131 degrees F. Heater shall be capable of maintaining the temperature set point +/- 3 degrees F. This shall be accomplished by switching or pulsing the power to the electrical elements.

WARRANTY

The heating modules shall carry a 10-year warranty. All other parts and components shall carry a 1 year warranty against defects in materials or workmanship.

Technical Data			
Description	Unit	WH17	WH27
Part number	–	7-736-500-682	7-736-500-681
Voltage supply	VAC	240	240
Amperage	A	2 x 40 (Canada 80)	3 x 40 (Canada 120)
Maximum output	kW	17.25	26.85
Maximum output at 220V	kW	15.00 kW	22.50
Maximum output at 208V	kW	13.00	20.00
Minimum recommended wire size	AWG	8	8
Thermal efficiency	%	97	97
Temperature control range	° F	95 - 131	95 - 131
Maximum inlet water temperature*	° F	≤ 86	≤ 86
Water pressure range	psi	15 - 150	15 - 150
Minimum flow rate	GPM	0.6	0.8
Inlet / Outlet connections	Inch	¾ NPT	¾ NPT
Weight (without water)	lbs	20	22
Certifications	–	 	

* Do not use heater for water temperature boosting applications

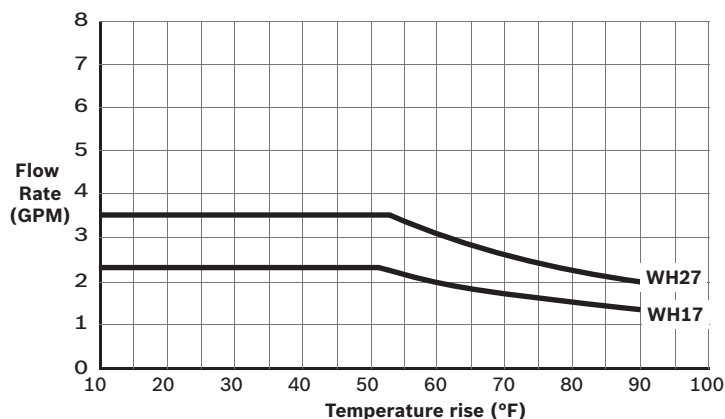
TRONIC WH17 & WH27

Electric Tankless Water Heaters



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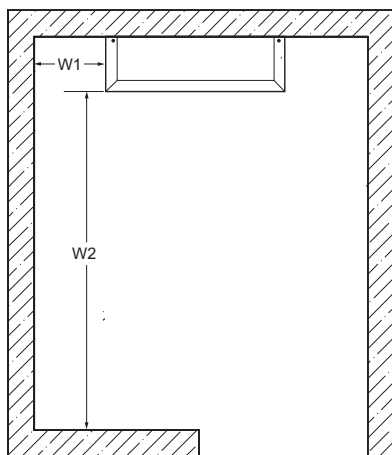
Water Heating Capacity Curve



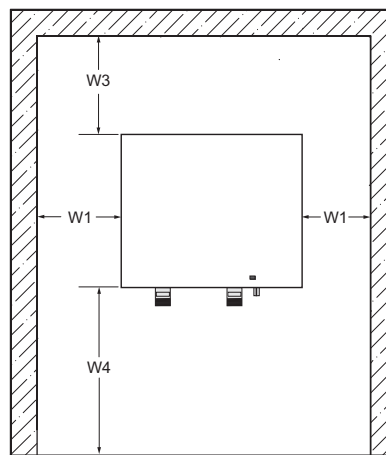
Water Heating Capacity Data

Temperature Rise °F	Flow Rate GPM	
	WH17	WH27
35	2.3	3.5
45	2.3	3.5
55	2.1	3.3
65	1.8	2.8
75	1.6	2.4
90	1.3	2.0

Clearances



Top View



Front View

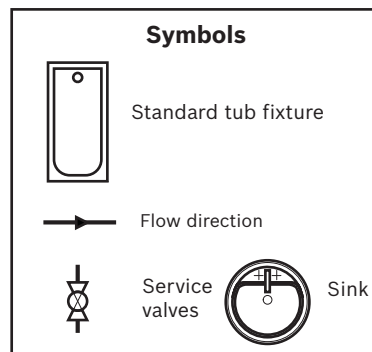
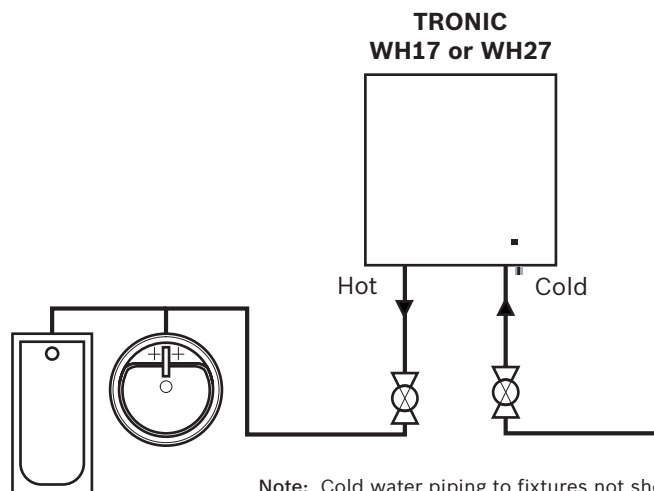
Description	Unit	Minimum clearance
Side clearance W1	Inch	½
Front clearance W2	Inch	12
Top clearance W3	Inch	12
Floor clearance W4	Inch	6

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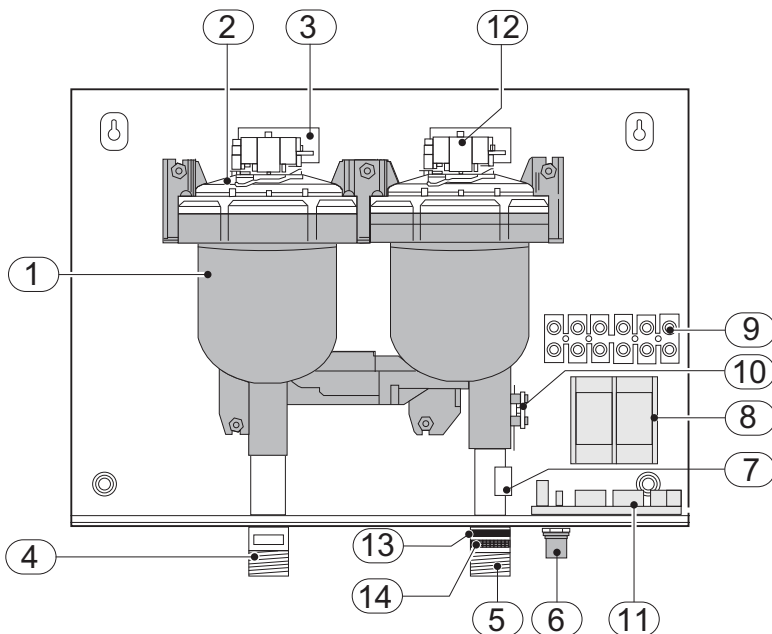


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Installation Example



Components



Components Legend

- 1 Heating module
- 2 Heating element assembly
- 3 Heating module P.C.B's
- 4 Hot water outlet
- 5 Cold water inlet
- 6 Temperature adjustment knob
- 7 Flow transducer
- 8 Terminal block (CANADA ONLY)
- 9 Terminal block
- 10 Temperature sensor
- 11 Control P.C.B
- 12 Thermal cut-out
- 13 Inlet water filter
- 14 Flow regulator