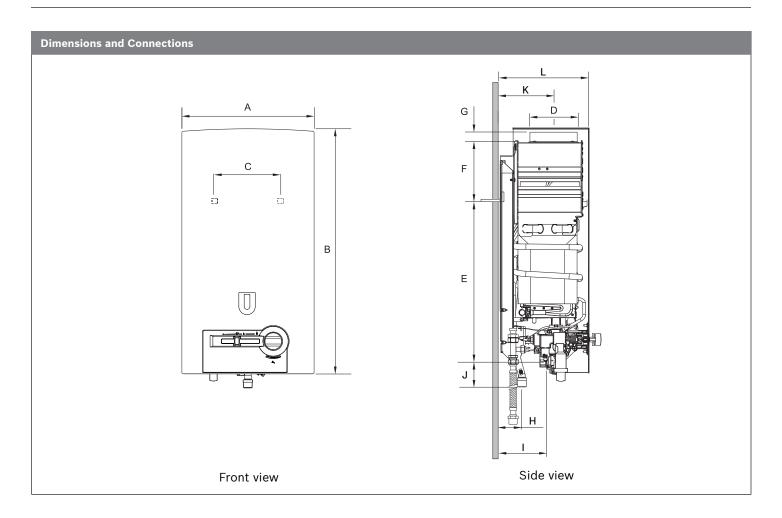
# 520PN Tankless Water Heater



Dimensions													
	Unit	Α	В	С	D	E	F	G	н	ı	J	К	L
Value	Inches	16.73	25.75	13.15	5.11	21.25	2.55	1.18	1.97	3.82	2.50	4.92	8.66

#### **Engineering Specifications**

Water heater shall be a Model Therm 520 PN NG or 520 PN LP. Plant shall consist of \_\_Model Therm 520 PN NG and \_\_Model Therm 520 PN LP tankless water heaters as manufactured by Bosch Thermotechnology Corp. Heater shall be CSA/ANSI Z21.10.3 listed. Heater shall have an input of 117 MBH with a gross output of 91 MBH when fired with natural gas. Unit shall operate with a minimum of 80% ANSI Z-21 efficiency. Tankless water heater shall have a recovery of 142 gallons per hour at a 77°F temperature rise.

#### CONSTRUCTION

Water heater shall be of gas fired, tankless design with a modulating gas valve and standing pilot. Burner shall be capable of 4:1 turndown of firing, without loss of combustion efficiency. Heat exchanger/combustion chamber shall incorporate a multi pass copper tube and fin design. Heat exchanger shall be rated for maximum working pressure not less than 150 psig. Vent shall use 5" diameter galvanized B-vent material.

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## 520PN Tankless Water Heater



#### **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 a manufacturer listed vent system.

Water heater plant piping shall be field constructed of materials as specified. Water heater shall be installed with individually isolating shutoff valves for service and maintenance, and a hot water hose connection for field testing. Unit shall have an ASME approved temperature/pressure relief valve with a setting of 150 psig. Water heater shall require a minimum gas pressure of 5.7" W.C. (Natural Gas) at 1,000 scfh (full load rated capacity). The water heater shall be provided with an individual supply gas regulator for proper gas regulation with a 3/4" NPT connection.

#### MODE OF OPERATION

Control of discharge water temperature shall be set through a dial at the front of the unit with a field adjustment from high to low.

#### WARRANTY

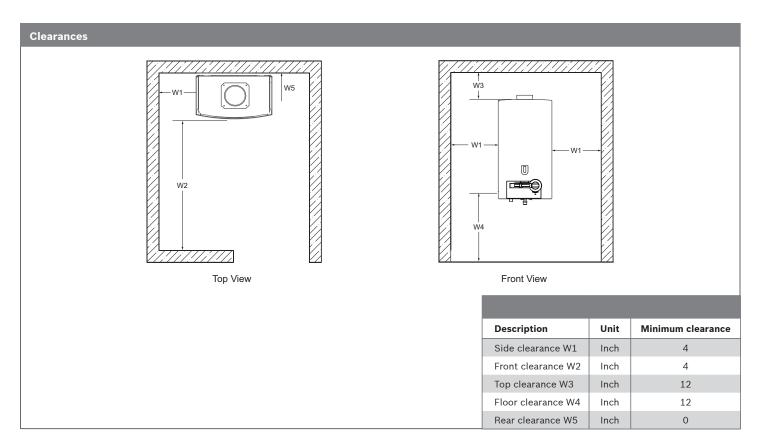
The heat exchangers shall carry a 15-year warranty against leakage due to defects in materials or workmanship or corrosion in a residential, non-direct recirculation system, subject to the manufacturer's water quality requirements. All other parts and components shall carry a 2 year warranty against defects in materials or workmanship.

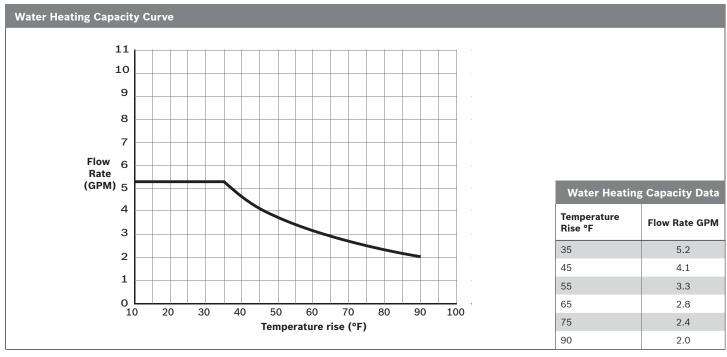
Performance Data						
	Unit	Value				
Maximum gas input	BTU	117,000				
Maximum output	BTU	91,260				
Minimum output	BTU	23.906				
Thermal efficiency	%	78				

Operational Data						
	Unit	Value				
520 PN NG / Natural Gass - part number	-	7703331995				
520 PN LP / Liquid Propane - part number	-	7703431997				
Weight	lbs	35				
Min. Inlet gas pressure NG / LP	Inch W.C.	5.7 / 10.5				
Max. Inlet gas pressure NG / LP	Inch W.C.	14				
Max. Working pressure	psi	150				
Min. Working pressure	psi	30				
Min. Activation rate	GPM	0.5				
Relief valve pressure rating	psi	150				
Venting category	-	I				
Approved vent pipe material	-	5 inch diameter double wall Type B gas vent				

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