

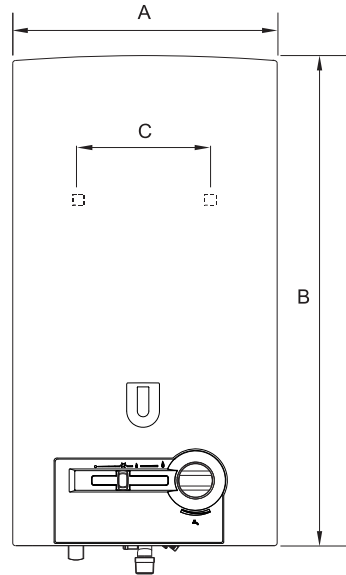
# 330PN Tankless Water Heater

Engineering  
Submittal  
Sheet

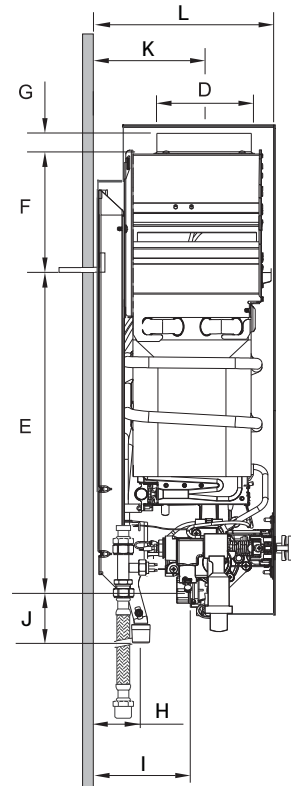


**BOSCH**

## Dimensions and Connections



Front view



Side view

## Dimensions

	Unit	A	B	C	D	E	F	G	H	I	J	K	L
Value	Inches	12.20	22.83	9.00	4.00	20.71	2.36	1.00	1.97	3.82	2.50	4.92	8.66

## Engineering Specifications

Water heater shall be a Model Therm 330 PN NG or 330 PN LP. Plant shall consist of \_\_\_Model Therm 330 PN NG and \_\_\_Model Therm 330 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 75 MBH with a gross output of 60 MBH when fired with natural gas. Unit shall operate with a minimum of 78% ANSI Z-21 efficiency. Tankless water heater shall have a recovery of 93.5 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 2.5:1 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 4" diameter galvanized B-vent material.

# 330PN

## Tankless Water Heater



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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 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 1/2" 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	74,900
Maximum output	BTU	60,000
Minimum output	BTU	23.906
Thermal efficiency	%	78

#### Operational Data

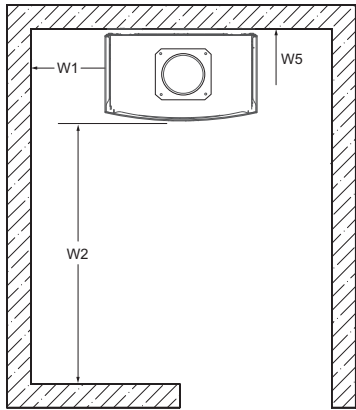
	Unit	Value
330 PN NG / Natural Gas - part number	-	7701331014
330 PN LP / Liquid Propane - part number	-	7701431941
Weight	lbs	26
Min. Inlet gas pressure NG / LP	Inch W.C.	5.7 / 10.5
Max. Inlet gas pressure NG / LP	Inch W.C.	14
Max. Working pressure	psi	150
Min. Working pressure	psi	13
Min. Activation rate	GPM	0.5
Relief valve pressure rating	psi	150
Venting category	-	I
Approved vent pipe material	-	4 inch diameter double wall Type B gas vent

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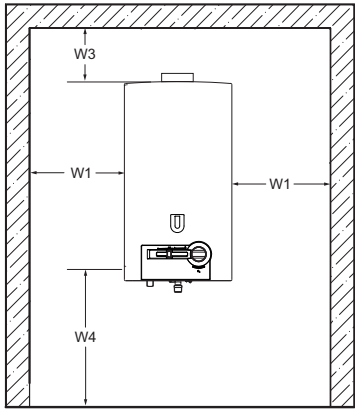


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## Clearances



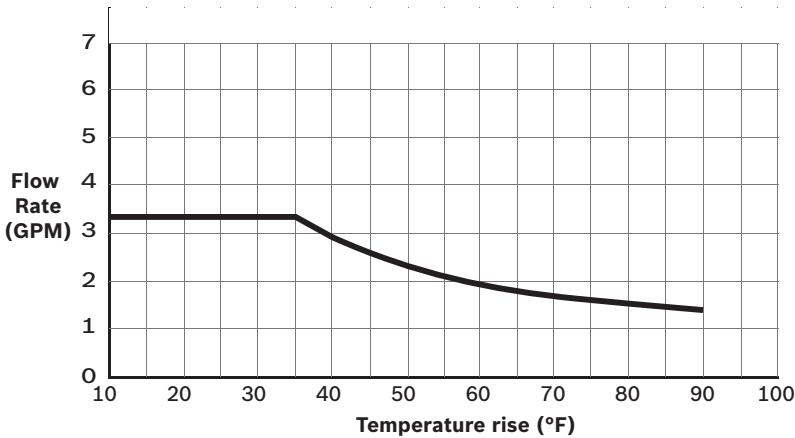
Top View



Front View

Description	Unit	Minimum clearance
Side clearance W1	Inch	4
Front clearance W2	Inch	4
Top clearance W3	Inch	12
Floor clearance W4	Inch	12
Rear clearance W5	Inch	0

## Water Heating Capacity Curve



### Water Heating Capacity Data

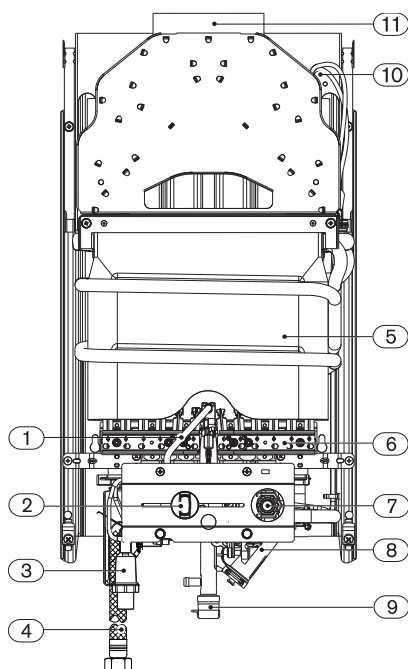
Temperature Rise °F	Flow Rate GPM
35	3.3
45	2.6
55	2.1
65	1.8
75	1.6
90	1.3

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## Tankless Components



### Components Legend

- 1 Pilot gas tubing
- 2 Gas control slide
- 3 Piezo
- 4 Flexible hot outlet
- 5 Heat exchanger
- 6 Burner
- 7 Temperature adjustment knob
- 8 Water valve / cold inlet
- 9 Gas connection
- 10 Flue gas limiter
- 11 Exhaust outlet