

# DURABILITY ON-DEMAND.

A COMPLETE LINE OF ON-DEMAND GAS-FIRED  
WATER HEATERS NOW WITH IMPROVED FLOW RATES.



## STATE ON-DEMAND GAS WATER HEATERS.

### Product Features:

#### Style

- Durable powder coated finish
- Smooth, pleasant lines and rounded corners
- Matching pipe cover available for finished appearance

#### Technology

- Interior and exterior installation options
- Continuous hot water on demand (up to 9.8 GPM)
- Whole house water heating solution
- Direct electronic ignition - no pilot light
- On-board diagnostics and safety monitoring

#### Durability

- Durable enough for 12-year limited warranty on heat exchanger in residential applications, and 5-year limited warranty on heat exchanger in commercial applications
- Tough enough to deliver abundant hot water
- Durable enough to be installed outdoors, saving valuable indoor square footage
- ASME models available

#### Tankless Energy Efficiency

- Up to 84% thermal efficiency providing significant energy cost savings
- 305 (Series 200/201) and all 505 models meet Energy Star® qualifications
- 305 (Series 200/201) and all 505 models qualify for up to \$1500 tax credit. See [www.statewaterheaters.com](http://www.statewaterheaters.com) for more details.

**Choose from 16 different interior  
and exterior models designed  
specifically for Residential or  
Commercial applications.**

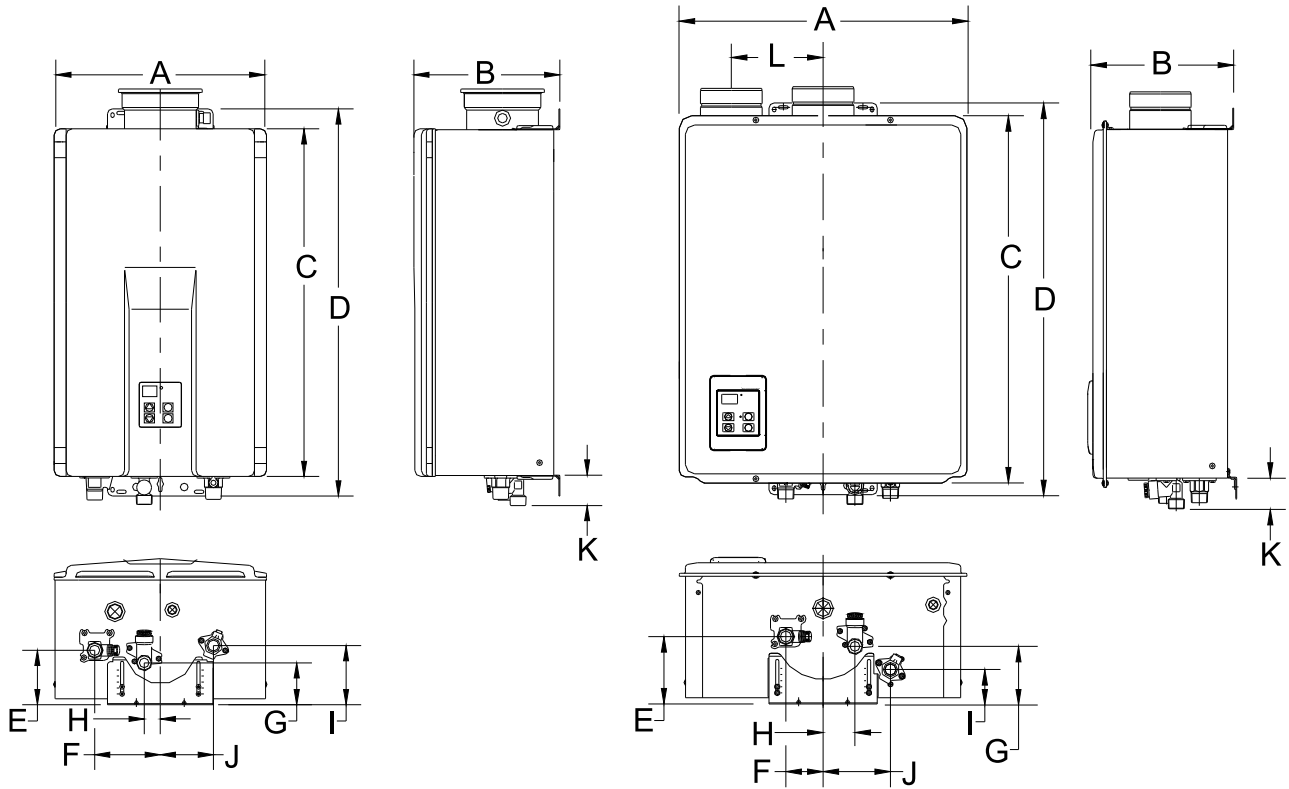
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# INTERIOR DIMENSIONS

## 305 and 505 Interior Models 200/201 Series

## 705 Interior Model



DIM	DESCRIPTION	305	705
		505 in (mm)	in (mm)
A	Width	14 (355.6)	18.5 (470)
B	Depth *	9.6 (244.5)	9.1 (230.5)
C	Height - Unit	22.9 (582)	23.6 (600)
D	Height - with brackets	25.5 (648.2)	25.2 (639.8)
E	Hot Water Outlet - from wall *	3.6 (91)	4.3 (110)
F	Hot Water Outlet - from center	4.3 (110)	2.4 (61)
G	Cold Water Inlet - from wall *	2.8 (70)	3.7 (94)
H	Cold Water Inlet - from center	1.1 (27)	2.0 (52)
I	Gas Connection - from wall *	4.3 (109)	2.2 (56.2)
J	Gas Connection - from center	3.5 (89)	4.3 (110)
K	From base to gas connection	1.6 (40)	1.6 (40)
	From base to cold connection	2.0 (50)	2.0 (50)
	From base to hot connection	1.6 (41)	1.6 (41)

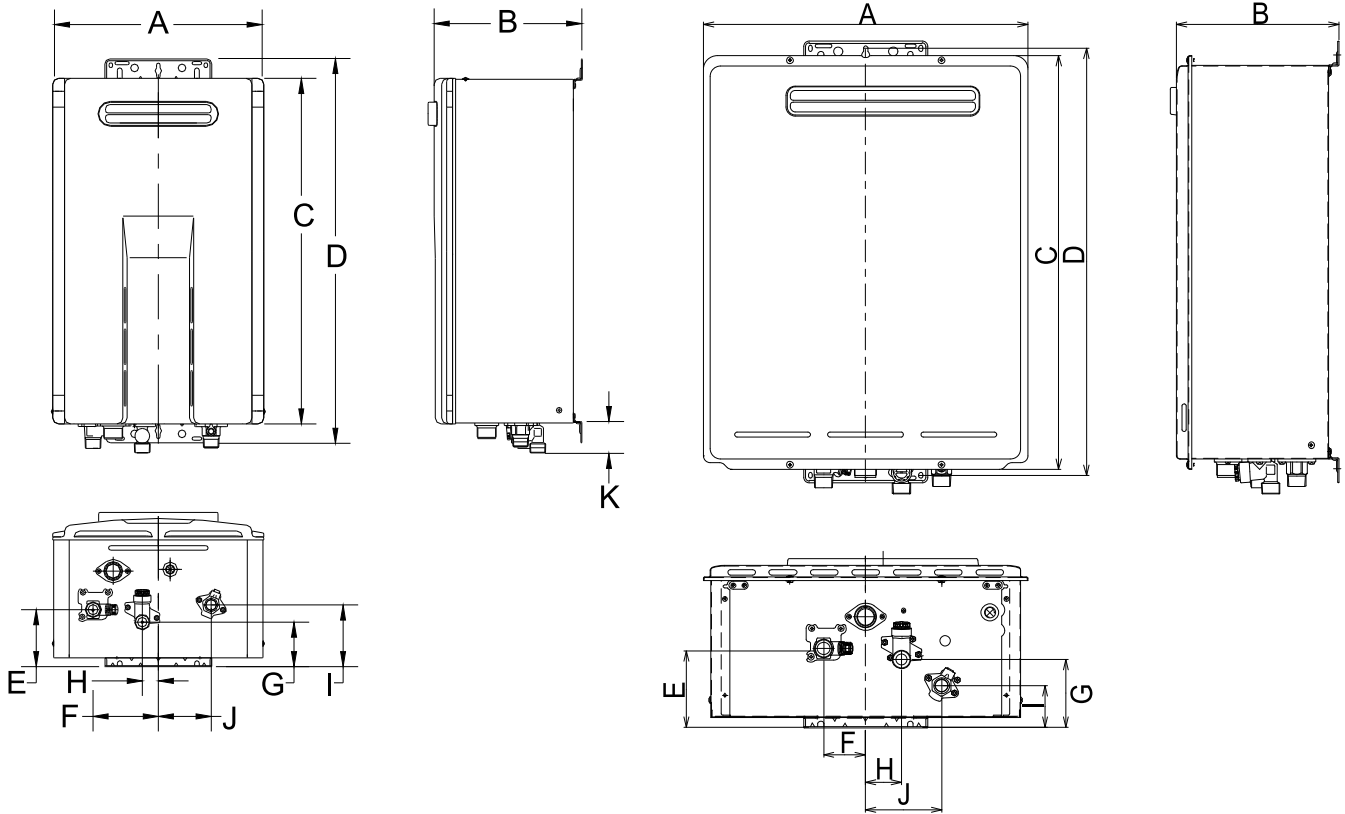
\* This is the minimum dimension from the wall. The wall bracket is adjustable to allow an additional 1.57 inches (40 mm).



# EXTERIOR DIMENSIONS

## 305 and 505 Exterior Models 200/201 Series

## 705 Exterior Model



DIM	DESCRIPTION	305 505 in (mm)	705 in (mm)
A	Width	14 (355.6)	18.5 (470)
B	Depth	9.8 (249.5)	9.3 (235.5)
C	Height - Unit	22.9 (582)	23.6 (600)
D	Height - with brackets	25.4 (646.4)	25.2 (640)
E	Hot Water Outlet - from wall	3.8 (96)	4.5 (115)
F	Hot Water Outlet - from center	4.3 (110)	2.4 (61)
G	Cold Water Inlet - from wall	3.0 (75)	3.9 (99)
H	Cold Water Inlet - from center	1.1 (27)	2.0 (52)
I	Gas Connection - from wall	4.1 (104)	2.4 (61.2)
J	Gas Connection - from center	3.5 (89)	4.3 (110)
K	From base to gas connection	1.6 (40)	1.6 (40)
	From base to cold connection	2.0 (50)	2.0 (50)
	From base to hot connection	1.6 (41)	1.6 (41)



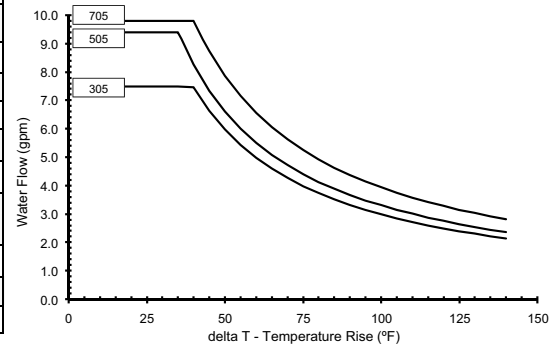
## Specifications



Model	305 200/201 Series	505 200/201 Series	705
Minimum Gas Consumption Btu/h	15,000		19,000
Maximum Gas Consumption Btu/h	180,000	199,000 Natural Gas 190,000 Propane Gas	237,000
Hot water capacity (Min - Max) *	0.6 - 7.5 GPM (2.3 - 28.4 L/min)	0.6 - 9.4 GPM (2.3 - 35.5 L/min)	0.6 - 9.8 GPM (2.3 - 37 L/min)
Interior Hot Water Capacity (45° rise)	6.6 GPM (25.0 L/min)	7.4 GPM (28.0 L/min) Natural Gas 7.1 GPM (26.9 L/min) Propane Gas	8.8 GPM (33.5 L/min)
Exterior Hot Water Capacity (45° rise)	6.6 GPM (25.0 L/min)	7.4 GPM (28.0 L/min)	8.7 GPM (33.1 L/min)
Default Temperature Setting (no controller)	120° F (49° C)		
Temperature Controller Default Temperature	104° F (40° C)		
Maximum Temp Setting (Commercial**)	160° F (71° C)	185° F (85° C)	
Maximum Temp Setting (Residential)	Selectable at 120° F (49° C) or at 140° F (60° C)		140° F (60° C)
Minimum Temperature Setting	98° F (37° C)		
Weight (Indoor/Outdoor)	Indoor Unit 50 lb (23kg) Outdoor Unit 46 lb (21 kg)		55 lb (25 kg)
Efficiency Rating / Energy Factor	84% / .82 E.F.		84%/N.A.
Noise level	49dB		
Electrical Consumption	Normal (Indoor/Outdoor)	65 W/50 W	79 W/55 W
	Standby	2 W	
	Anti-frost Protection	100 W	116 W
By-Pass Control	Fixed	Electronic	
Minimum Gas Supply Pressure	Natural Gas	5.0 inch W.C.	
	Propane	8.0 inch W.C.	
Maximum Gas Supply Pressure	Natural Gas	10.5 inch W.C.	
	Propane	13.5 inch W.C.	
Type of Appliance	Direct Vent, Temperature controlled continuous flow gas hot water system.		
Operation	With or without temperature controls, mounted in kitchen, bathroom, etc.		
Approved Gas Type	Natural Gas or Propane - Ensure unit matches gas type it's being installed on.		
Connections	Gas Supply: 3/4" MNPT, Cold Water Inlet: 3/4" MNPT, Hot Water Outlet: 3/4"		
Ignition System	Direct Electronic Ignition		
Electric Connections	Appliance: AC 120 Volts, 60Hz. Temperature Control: DC 12 Volts (Digital)		
Water Temperature Control	Simulation Feedforward and Feedback.		
Water Suppl Pressure	Minimum Water Pressure: 20 PSI (Recommended 30-80 PSI for maximum performance)		
Maximum Water Supply Pressure	150 PSI		
Temperature Control Cable	Non-Polarized Two Core Cable (Minimum 22 AWG)		
Energy Star® Qualified	Yes	Yes	No



ANSZ21.10.3 • CSA 4.3



\* Minimum flow may vary slightly depending on the temperature setting and the inlet water temperature.

\*\* for commercial and hydronic applications requiring higher temperatures

Specifications are subject to change without prior notice.

The maximum inlet gas pressure must not exceed the value specified by the manufacturer. The minimum value listed is for the purpose of input adjustment.

For more information on State On-Demand Water Heaters, contact:  
 State Water Heaters  
 500 Tennessee Waltz Parkway  
 Ashland City, TN 37015  
**800-365-0024 Toll-free USA**  
[www.statewaterheaters.com](http://www.statewaterheaters.com)

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