



**COMMERCIAL** 

# iQ251, Gen II

# HIGH-OUTPUT, TANKLESS, ON-DEMAND WATER HEATERS





### GEN II - WHAT'S NFW

- Wi-Fi Connectivity Remote access and real-time monitoring of your Gen II unit are made possible with the new Wi-Fi and 3G/4G connectivity feature. Each unit can be easily connected to your building's router or to Intellihot's internet hub.
- **Touch-Screen** All Gen II units have large, intuitive touch screens. All wall hung units have a 3.5" color touch-screen. Easily access daily, weekly, and monthly usage data, troubleshooting info, and longevity of parts.
- Mobile App, telliCare® Download Intellihot's new mobile app, telliCare, and start monitoring your unit. Check water inlet/outlet temperatures, flow rates, flue gas temperatures, combustion rates, and more, available on your mobile device of choice.

### **APPLICATIONS**

Retail Buildings, Laundromats, Restaurants, Salons, Car Washes, Commercial Kitchens.

### COMPLETELY GREEN FULLY WARRANTED

Fully condensing, 96% efficient

10-year commercial HX Warranty

### TECHNOLOGY OVERVIEW

When space is at a premium, you can count on our wall-hung iQ251 units for superior performance and reliability. Ideal for highly variable applications using potable hot water, these innovative on-demand, water heaters provide 96% thermal efficiency and are constructed for maximum durability – even in the most demanding commercial applications.

### EFFICIENT BURNER SYSTEM

iQ251 units features a radially fired, downward-blowing, premixed burner with a negative pressure gas valve and plenum design. The burner delivers a more stable flame under a wide range of operating conditions, including low gas pressure, wind, and non-equal pressure zone terminations. It easily converts from natural gas to LP with the turn of a screw – no additional parts required.

### REVOLUTIONARY HEAT EXCHANGER

Our heat exchanger floats freely to accommodate all thermal shocks and stresses. Made of 316L stainless steel it offers superior corrosion and erosion resistance. It has a patented self-descaling design that prevents lime scale buildup. It has no welds on the water side to ensure robustness to chlorides. Our heat exchangers create energy reduction of up to 40%+ when compared to tank-type water heaters and 15%+ over other non-condensing water heaters.

### KEY FEATURES

- Masterless Cascading Cascade up to 10 units for 2,510,000 BTU/hr capacity for larger applications. Eliminate single-point failure with our patented Masterless Cascading technology. If one cascaded unit is offline for servicing, all other units regroup and continue to operate.
- Eliminate Mixing Valve & Legionella With no storage tanks there's no risk for Legionella growth. By eliminating the need for mixing valves, this feature also eliminates their associated unreliability and costs for our customers.
- Full Modulation Smart units deliver maximum BTU/hr input when needed and zero BTU/hr the rest of the time.
- Low Gas Pressure Operation System requires very low gas pressure to operate, down to 2.5" WC.
- Common Venting Capabilities The iQ251 units transform common venting into smart–common venting. Accommodates 3" PVC exhaust venting up to 130 feet (power vent).
- **ASME-HLW Compliant** Suitable for applications managed by engineers, specifiers and contractors.
- Factory Installed Strainer iQ251 units deliver debris-free inlet water to the system.

# Note: Due to Intellihot's policy of continuous product improvements, design and technical specifications are subject to change without notice. Version 6.18

## iQ251 Specifications

PARAMETERS	i <b>Q</b> 251
Туре	Indoor/Outdoor, Wall Hung, Fully Condensing, Tankless On-Demand Water Heater
Fuel	Preset for NG / LP convertible
Minimum / Maximum Input (BTU/hr)	30,000 / 251,000
Maximum Output (BTU/hr)	240,960
Thermal Efficiency	96%
Dimensions H X W X D (Inches)	26.2 X 17.7 X 15 (3.9 CU. FT)
Weight (LBS)	90 LBS
Water Inlet / Outlet Connection	3/4" NPT
Gas Inlet Connection	3/4" NPT
Minimum Flow Rate for Activation	0.6 GPM
Ignition	Electronic Spark Ignition
Venting Type	Direct Vent (2 pipe – intake & exhaust), Power Vent (1 pipe – exhaust only)
Venting Materials	Sch. 40 PVC, Sch. 40 CPVC, Polypropylene, Stainless Steel (AL29-4C)
Max 3" Vent Length – Single Pipe / Power Vent	130 ft, deduct 5 ft per 90° elbow
Max 3" Vent Length – Two Pipe / Direct Vent	65 ft, deduct 5 ft per 90° elbow
Common Venting	Yes
Installation Location Ambient Temperature	40°F – 130°F
Safety	Flame Rod, Thermal Fuse, Overheat Prevention Device, Fan Speed Monitor, Flue Temperature Monitor, Blocked Vent Detector, Water Shut-Off Valve, 2X10A Fuse, Dual Flame Sensing, Flue Damper
Water Pressure Min / Max (PSI)	30 / 160
NG/LP – Minimum Static Gas Pressure 1/2" (non-corrugated, black iron)	6"
NG/LP – Minimum Static Gas Pressure 3/4" (non-corrugated, black iron)	2.5"
NG/LP – Maximum Static Gas Pressure	14"
Gas Pressure for Adjustments	8" for NG, 11" for LP
Electrical	120V AC, 60 Hz
Power Consumption	500W (Max 4.2 Amps), 8W (Standby)
Listing	ETL (Z21.10.3 / CSA 4.3), ASME HLW, SCAQMD (Low NO <sub>X</sub> )
Cascading	Masterless, 10 units
Heat Exchanger	Expandable, Stainless 316L
Hot Water Capacity (35F Rise)	13.8
Hot Water Capacity (45F Rise)	10.7
Hot Water Capacity (77F Rise)	6.3
Commercial Mode Temp. Settings	100 – 190°F
Warranty (with recirculation, and unlimited thermal cycles)	Heat Exchanger Coil – 10 years, Parts – 2 years, Labor - none





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