



Intellihot

Endless water. Zero waste.™

INDUSTRIAL

iQ251D, Gen II

DEIONIZED, TANKLESS, ON-DEMAND WATER HEATERS



TECHNOLOGY OVERVIEW

The wall-hung iQ251D on-demand water heater is designed to be a commercial “workhorse.” Each unit delivers 251,000 BTU/hr and is ideal for highly variable applications using deionized hot water. Ideal where space is at a premium, the iQ251D is the most compact and only gas-fired, deionized on-demand water heater on the market.

LARGE CAPACITY, NO SINGLE POINT FAILURE

Up to ten iQ251D units can be cascaded together for a combined capacity of over 2,510,000 BTU/hr capacity. With our patented Masterless Cascading technology, we’ve eliminated the need for a master controller, thus eliminating any single-point system failures. Each unit is also equipped with enough internal logic to continue to operate independently. If any one of the cascaded units needs to be serviced, the other units will continue to function smoothly to ensure continuous hot water.

KEY FEATURES

- **Masterless Cascading** – Eliminate single-point failure with multiple units. If one is offline for servicing, all other units regroup and continue to operate.
- **Eliminate Mixing Valves & Lower Legionella Risks** – With no storage tanks, there’s a lower risk for Legionella growth. By eliminating the need for mixing valves, this feature also reduces their associated unreliability and costs.
- **316L Stainless-Steel Construction** – The unit is durable, built to withstand highly corrosive deionized water.
- **Flexible Heat Exchanger** – Built to accommodate quick temperature changes and continual on-off cycles with minimal stress.
- **Compact Unit** – Nearly the size of a carry-on suitcase (26”x17”x15.9”), the units each weigh approximately 100 lbs.
- **ASME-HLW Compliant** – Suitable for applications managed by engineers, specifiers and contractors.
- **Natural Gas** – By using natural gas our systems lower operating costs and improve ROI vs. electric water heaters.
- **High Power, Small Package** – Our units require as little as 73KW, substantially less than electric water heaters with no need for 440V or large amperage.

GEN II - WHAT'S NEW

- **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** – Easily access daily, weekly, and monthly usage data, troubleshooting info, and longevity of parts via an intuitive touch screen. iQ251D features a 3.5” color touch-screen.
- **Mobile App, telliCare®** – Effortlessly monitor water inlet/outlet temperatures, flow rates, flue gas temperatures, combustion rates, and more, with Intellihot’s mobile app, telliCare, conveniently available on your iOS mobile device.

APPLICATIONS

Industrial Finishing/Cleaning, Electronic Parts Fabrications, Food Processing, Water Purification, Reverse Osmosis Systems, Aerospace, Cosmetics, Pharmaceutical and Glass Industries.

COMPLETELY GREEN FULLY WARRANTED

Fully Condensing, 96% Efficient

10-Year Commercial HX Warranty

iQ251D Specifications

PARAMETERS	iQ251D
Type	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, Stainless 316L
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. 80 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" WC
NG/LP – Minimum Static Gas Pressure 3/4" (non-corrugated, black iron)	2.5" WC
NG/LP – Maximum Static Gas Pressure	14" WC
Gas Pressure for Adjustments	8" WC for NG, 11" WC for LP
Electrical	120V AC, 60 Hz
Power Consumption	500W (Max 4.2 Amps), 8W (Standby)
Features	
Listing	ETL (Z21.10.3 / CSA 4.3), ASME HLW, SCAQMD (Low NO _x)
Cascading	Masterless, 10 units
Heat Exchanger	Expandable, Stainless 316L
Fittings and Internal Piping	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

Note: Due to Intellihot's policy of continuous product improvements, design and technical specifications are subject to change without notice. Version 8.20



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 Built for the world.™