



Intellihot

Endless Water. Zero Waste™

INDUSTRIAL

Deionized tankless water heaters

iQ251D



Deionized water heating for labs, factories and plants



Industrial environments demand rugged, deionized water heaters, and this model meets the challenge. Built for tight spaces and tough conditions, the iQ251D is the most compact and only gas-fired, deionized on-demand water heaters on the market. Count on this unit to deliver efficient, consistent, durable performance in diverse applications industrial - finishing/cleaning; electronic parts fabrications; food processing; water purification; reverse osmosis systems; as well as the aerospace, cosmetics, pharmaceutical and glass industries.

LARGE CAPACITY, NO SINGLE-POINT FAILURE

The iQ251D units can be cascaded - up to 10 altogether - for a combined capacity of over 2,500,000 Btu/h. Best of all, these heaters do not require a master controller (the kind that can cause single-point system failure). With Intellihot's patented design, each unit has enough internal logic to operate independently. In fact, if any one unit needs to be checked or serviced, the other units will continue to function smoothly to ensure continuous hot water.

Key Features

- Robust – 316L stainless-steel construction withstands highly corrosive deionized water
- Commercial-grade – features a surgical stainless-steel heat exchanger for long life
- Trouble-free – flexible heat exchanger built to accommodate quick temperature changes and continual on-off cycles with minimal stress
- Compact – high power (73KW) in a small package vs. electric water heaters, with no need for 440V or large amperage
- ASME-HLW compliant – suitable for applications managed by engineers, specifiers and contractors
- Best ROI – uses natural gas, which lowers operating costs vs. electric water heaters



Designed and Built
in the USA

GREEN – fully condensing, 96% efficiency, no 24/7 energy waste with tank standby losses

GAS-FIRED – 73KW of heating capacity available with low pressure drop; capable of 9.6 GPM at 50F temperature rise

FULLY WARRANTED
an industry-best, 10-year commercial HX warranty

iQ251D – Suitable for Deionized Water Heating

PARAMETERS	iQ251D
Type	Indoor/Outdoor, Wall Hung, Fully Condensing, On-demand Water Heater
Fuel	Preset for NG / LP convertible
Minimum / Maximum Input (Btu/h)	30,000 / 251,000
Thermal Efficiency	96%
Dimensions H X W X D (inches)	26 X 17.4 X 14.9 (3.9 cu. ft)
Weight (lbs)	90
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. 40 CPVC, Polypropylene, Stainless Steel
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
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)
Features	iQ251D
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
Domestic Mode Temp. Settings	100 – 140°F
Commercial Mode Temp. Settings	100 – 190°F
Warranty as of Jan 31, 2016 (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 10.22.2016



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