



i Series, Gen II

HIGH-OUTPUT, TANKLESS, ON-DEMAND WATER HEATERS



TECHNOLOGY OVERVIEW

With unparalleled performance and reliability, our Gen II i Series tankless water heaters are ideal for highly variable applications using potable hot water. Each unit is constructed for maximum durability – even in the most demanding commercial applications.

- Nearly 200,000 to 250,000 BTU/hr for light commercial applications
- Decreases capital cost by up to 50% and reduces operational cost up to 30% (compared to traditional tank-type systems)
- Takes up 80% less space than a typical tank water heater

EFFICIENT BURNER SYSTEM

i Series units feature 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.

GEN II – WHAT'S NEW

- **Indoor/Outdoor Installations** – Intellihot's systems are built to withstand the elements and can be installed outdoors or indoors.
- **Touch-Screen** – Easily access daily, weekly, and monthly usage data, troubleshooting info, and longevity of parts via an intuitive touch-screen. The i200 and i250 units feature a 3.5" color touch-screen.
- **Easy Front Panel Removal** – The front panel can be removed with a simple 1/4 turn of the screws instead of completely removing screws from the cabinet.

APPLICATIONS

Retail, Laundromats, Restaurants, Salons, Commercial Kitchens

COMPLETELY GREEN FULLY WARRANTED

Fully Condensing, High-Efficiency 6-Year Commercial HX Warranty

KEY FEATURES

- **Masterless Cascading** – 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 Valves & 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.
- **Plastic Vent Temperature Overshoot Control** – Maintains safe stack temperature below the vent's maximum temperature rating.
- **Multiple Venting Configurations** – Include concentric, snorkeling, terminations in different pressure zones and single-pipe vent, smart common venting.
- **Numerous Levels of Built-in Safety Features** – Prevent flue from back drafting, including fan speed control, a mechanical damper, and intelligent unit loss detection algorithms.
- **Factory Installed Strainer** – Units deliver debris-free inlet water to the system.

i Series Specifications

PARAMETERS	MODEL	
	i200	i250
Type	Indoor/Outdoor, Wall-Hung, Fully Condensing, Direct Ignition	
Fuel	Preset for NG / LP Convertible	
Minimum / Maximum Input (BTU/hr)	30,000 / 199,950	30,000 / 250,000
Thermal Efficiency	94%	92%
Energy Factor	0.93	N/A
Dimensions H X W X D (Inches)	26.2 X 17.7 X 15 (3.9 CU. FT)	
Weight (LBS)	93 LBS	
Water and Gas Connections	3/4" NPT	
Minimum Flow Rate	0.6 GPM	
Venting Materials	Sch. 40 PVC, Sch. 40 CPVC, Polypropylene, Stainless Steel (AL29-4C)	
Max 3" Vent Length - Single Pipe / Power Vent	200 ft, deduct 5 ft per 90° elbow	130 ft, deduct 5 ft per 90° elbow
Max 3" Vent Length - Two Pipe / Direct Vent	100 ft, deduct 5 ft per 90° elbow	65 ft, deduct 5 ft per 90° elbow
Max 2" Vent Length - Single Pipe / Power Vent (2" not allowed at elevations above 4,000 ft)	26 ft, deduct 5 ft per 90° elbow	N/A
Max 2" Vent Length - Two Pipe / Direct Vent (2" not allowed at elevations above 4,000 ft)	21 ft, deduct 5 ft per 90° elbow	N/A
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	
Water Pressure Min / Max (PSI)	30 / 150	
NG/LP - Minimum Static Gas Pressure 1/2" Black Iron (non-corrugated)	5"	6"
NG/LP - Minimum Static Gas Pressure 3/4" Black Iron (non-corrugated)	2.5"	
NG/LP - Minimum Dynamic Pressure at Full Firing Rate	0.5"	
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 & PERFORMANCE	i200	i250
Cascading	Masterless, 10 units	
Heat Exchanger	Stainless 316L	
Hot Water Capacity (35F Rise)	10.8	13.2
Hot Water Capacity (45F Rise)	8.4	10.3
Hot Water Capacity (77F Rise)	5.0	6.0
Domestic Hot Water Temperature Settings	100 – 185°F	
Warranty (with recirculation, and unlimited thermal cycles)	Commercial: Heat Exchanger Coil – 6 years, Parts – 1 year, Labor - None Residential: Heat Exchanger Coil – 15 years, Parts – 5 years, Labor – 1 year	

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


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