



Intellihot

Endless water. Zero waste.™

COMMERCIAL

iN199 | iN199A | iN251

FINALLY, A DROP-IN SOLUTION THAT ALLOWS YOU TO GO TANKLESS

The latest addition to the Neuron line was specifically designed to be drop-in ready for all tankless water heaters using Natural Gas or Propane that utilize a 120-gallon tank. Intellihot's iN199 will save commercial properties up to 40% per year on their energy bills and reduce greenhouse gas emissions by 40%. The iN199 is the perfect tankless solution for commercial properties that want reliable hot water at an affordable price with no tank to maintain.

KEY FEATURES

- **iN199 | iN199A - 199,950 BTU/hr.** - Natural gas or propane
- **iN251 - 251,000 BTU/hr.** - Natural gas or propane
- **Drop-In Ready Replacement** - Neuron Series units are over 8" slimmer than a typical tank and feature similarly located water in and out for easy hook up without the need to re-pipe. Replace typical tank units in a flash.
- **Quick Ship** - Readily available stock, ships quickly with short lead times on orders.
- **Sizing Guarantee** - Intellihot is confident that your project will be sized correctly by us; if not, we will pay for any additional equipment at no charge.
- **Gas Pressure Sensor** - Easy ignition troubleshooting
- **Water Pressure Sensor** - Allows for scaling checks
- **Reliable Alerts** - Get crucial alerts about your hot water system including warnings, parts replacement reminders, and monthly usage reports via text and email messages using telliCare messaging.
- **Control Board OTA** - Over The Air monitoring with software backup and updates
- **Automatic pump control** - Runs only with flow to the unit preventing pump burnout
- **Lightweight - 266lbs.** - The slim, lightweight design makes light work of transporting and installation.
- **iN199A | iN251** - ASME Certified



SCALE FREE 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.

 **Guaranteed Replacement Product**

iN199 | iN199A | iN251 Specifications

PARAMETER	MODELS	
	iN199 iN199A	iN251
Type	Indoor, Floor Mounted, On-Demand Water Heater	
Fuel	Preset for NG / LP convertible without additional parts	
Minimum Input (BTU/hr)	30,000	
Maximum Input (BTU/hr)	199,950	251,000
Maximum Output (BTU/hr)	195,951	240,960
Thermal Efficiency	98%	96%
Turn Down Ratio (TDR)	6.7:1	8.4:1
Water Inlet / Outlet Connections	1-1/2" NPT	
Gas Inlet Connection	1-1/2" NPT (3/4" w/nipple)	
Condensate Drain Connection	3/4" PVC	
Maximum Condensate Flow Rate (GPH)	1.4	1.8
Unit Dimensions H X W X D (Inches)	67.5 X 20 X 20 (15.6 CU. FT)	
Service Clearances	4" on the back, 6" on the top, 21" on the front, and 6" on the sides	
Unit Weight (LBS)	273 LBS	
Shipping Crate Dimensions H X W X D / Weight	85 X 29.5 X 27 (Inches) / 373 (LBS)	
Venting Type	Direct Vent (2 pipe – air intake and exhaust gas outlet), Power Vent (1 pipe – exhaust gas only)	
Venting Materials (USA)	Sch. 40 PVC, Sch. 80 CPVC, Polypropylene, Stainless Steel (AL29-4C)	
Venting Materials (Canada)	Type BH Gas Vent Classes: II A (PVC), II B (CPVC), II C (Polypropylene), I (AL294C SS)	
Vent Size (Diameter)	3" Ø	
Max 3" Vent Length - Single Pipe / Power Vent	195 FT*	130 FT*
Max 3" Vent Length - Two Pipe / Direct Vent	95 FT*	65 FT*
* Venting Note: From the maximum lengths above, deduct 5 ft. per 90° elbow and 2 ft. per 45° elbow		
Ignition	Electronic Spark Ignition	
Temperature Range	100°F – 190°F	
Temperature Stability	+/- 4°F (During Demand)	
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, Dual Flame Sensing	
Water Pressure Min / Max (PSIG)	30 / 150	30 / 160
NG/LP - Min. Dynamic Gas Pressure (Full Fire)	NG = 2.5" WC LP= 8" WC (set Gas regulator to 8" WC for NG 11" WC for LP)	
NG/LP - Maximum Static Gas Pressure	14" WC (set Gas regulator to 8" WC for NG 11" WC for LP)	
Gas Regulator Pressure Set To	8" WC for Natural Gas, 11" WC for Propane	
Electrical	120V AC, 60 Hz	
Power Consumption	Max 9.5 Amps, 16W (Standby)	
Internal Water Volume (gallons)	1	
Features	iN199	iN199A iN251
Cascading	Masterless, 4 units, Automatic Rotation	
Common Venting	Yes - up to 4 units	
Heat Exchanger	Expandable, Stainless 316L	
Appliance Certification to ANSI Z21.10.3	ETL (Z21.10.3 / CSA 4.3)	ETL (Z21.10.3 / CSA 4.3), ASME HLW
SCAQMD (Pending)	Ultra Low Nox (under 20 PPM)	
Performance GPM / GPH	iN199 iN199A	iN251
Hot Water Capacity (30F Rise)	13.0 / 780	16.1 / 964
Hot Water Capacity (40F Rise)	9.8 / 588	12.1 / 723
Hot Water Capacity (50F Rise)	7.8 / 468	9.7 / 578
Hot Water Capacity (60F Rise)	6.5 / 390	8.1 / 482
Hot Water Capacity (70F Rise)	5.6 / 336	6.9 / 413
Hot Water Capacity (80F Rise)	4.9 / 294	6.0 / 362
Hot Water Capacity (90F Rise)	4.3 / 258	5.4 / 322
Hot Water Capacity (100F Rise)	3.9 / 234	4.8 / 289
Hot Water Capacity (110F Rise)	3.5 / 210	4.4 / 263
Hot Water Capacity (120F Rise)	3.2 / 192	4.0 / 241
Hot Water Capacity (130F Rise)	3.0 / 180	3.7 / 223
Hot Water Capacity (140F Rise)	2.8 / 168	3.5 / 207
Warranty†	iN199	iN199A iN251
Basic Warranty (without StartUp)	Hex – 1 Year, Parts – 1 Year, Labor - None	Hex – 1 Year, Parts – 1 Year, Labor - None
Enhanced Warranty (with StartUp)	Hex – 6 Years, Parts – 2 Years, Labor - None	Hex – 10 Years, Parts – 2 Years, Labor - None
Labor Warranty (with Start Up & telliCare Connection)	Hex – 6 Years, Parts – 2 Years, Labor - 1 Year	Hex – 10 Years, Parts – 2 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 4.25

† Heat Exchanger assembly (HEX) does not include, gas valve/blower assembly & sidecast. On 10 year | prorated after year 5. On 6 year | prorated after year 3. telliCare Service is free for one year. Start of warranty is: Per startup report or 2 months from date of manufacture. More specific warranty details can be found in 1/0 Manuals section 19.