



Intellihot  
Endless water. Zero waste.™

COMMERCIAL

# The Neuron iN199 | iN199A

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

- **199,950 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
- **Direct Cell-LTE Connectivity** - Remotely access and monitor our Neuron unit via LTE cell connectivity feature. No need for your building's Wi-Fi.
- **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** - 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 Specifications

PARAMETER	MODELS
	iN199   iN199A
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
Maximum Output (BTU/hr)	195,951
Thermal Efficiency	98%
Turn Down Ratio (TDR)	7:1
Water Inlet / Outlet Connections	1-1/2" NPT
Gas Inlet Connection	3/4" NPT
Condensate Drain Connection	3/4" NPT panel mount
Maximum Condensate Flow Rate (GPH)	3.6
Unit Dimensions H X W X D (Inches)	67.5 X 20 X 20 (15 CU. FT)
Service Clearances	4" on the back, 6" on the top, 21" on the front, and 6" on the sides
Unit Weight (LBS)	266 LBS
Shipping Crate Dimensions H X W X D / Weight	85 X 29.5 X 27 (Inches) / 366 (LBS)
Venting Type	Direct Vent (2 pipe - intake & exhaust), Power Vent (1 pipe - exhaust only, room air)
Venting Materials (USA)	Sch. 40 PVC, Sch. 80 CPVC, Polypropylene, Stainless Steel
Venting Materials (Canada)	Type BH Gas Vent Classes: II A (PVC), II B (CPVC), II C (Polypropylene), I (AL 29-4C SS)
Vent Size (Diameter)	3" Ø
Max Vent Length - Single Pipe / Power Vent*	195 FT
Max Vent Length - Two Pipe / Direct Vent*	95 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)	2.5" 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 NG, 11" WC for LP
Electrical	120V AC, 60 Hz
Power Consumption	Max 9 Amps, 10W (Standby)
Internal Water Volume (gallons)	1
Features	iN199   iN199A
Cascading	Masterless, 4 units, Automatic Rotation, Cascadable with iN199 ONLY
Common Venting	Yes - up to 4 units
Heat Exchanger	Expandable, Stainless 316L
Listing	ETL (Z21.10.3 / CSA 4.3)   ETL (Z21.10.3 / CSA 4.3), ASME HLW
Performance GPM / GPH	iN199   iN199A
Hot Water Capacity (30F Rise)	13.1 / 787
Hot Water Capacity (40F Rise)	9.8 / 590
Hot Water Capacity (45F Rise)	8.7 / 525
Hot Water Capacity (50F Rise)	7.9 / 472
Hot Water Capacity (60F Rise)	6.6 / 393
Hot Water Capacity (70F Rise)	5.6 / 337
Hot Water Capacity (80F Rise)	4.9 / 295
Hot Water Capacity (90F Rise)	4.4 / 262
Hot Water Capacity (100F Rise)	3.9 / 236
Hot Water Capacity (120F Rise)	3.3 / 197
Hot Water Capacity (130F Rise)	3.0 / 182
Hot Water Capacity (140F Rise)	2.8 / 169
Warranty	Heat Exchanger Coil – 6 years, All Other Parts – 1 year

Note: Due to Intellihot's policy of continuous product improvements, design and technical specifications are subject to change without notice. Version 7.23