

iN401 Submittal Data

| | | | |
|---------------------|----------------------|-----------------|---|
| Date: | <input type="text"/> | Bid Date: | <input type="text"/> |
| Project Name: | <input type="text"/> | Fuel Type: | <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane |
| Project #: | <input type="text"/> | Factory Option: | <input type="checkbox"/> iNTouch-BMS |
| City State Zip: | <input type="text"/> | Factory Option: | <input type="checkbox"/> Propane Setup |
| Engineer: | <input type="text"/> | | |
| Contractor: | <input type="text"/> | | |

| | Temperature Rise (ΔT) °F | | | | | | |
|------------|------------------------------------|------|------|------|-----|-----|-----|
| | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Flow (GPM) | 19.3 | 15.4 | 12.9 | 11.0 | 9.6 | 8.6 | 7.7 |



KEY FEATURES

- Multiple Stainless (316L) Heat Exchangers
- Flexible-Floating Design, stress-relieving and thermal shock resistant
- Built-in Redundancy - Multiple heat engines with individual controls
- Multi-Unit - Masterless cascading with common venting
- Gas Pressures - Operates on gas pressure range of 2.5"-14" w.c.
- ASME-HLW Compliant
- Designed and Built in the U.S.
- 7" Color Touch Screen - access to usage data, troubleshooting, and parts wear
- Direct Cell-LTE Connectivity

PERFORMANCE

- Turndown Ratio of 13.3:1 per unit.
- Cascade up to 4 units with common venting for a total of over 1,600MBH and a 53:1 total turndown ratio

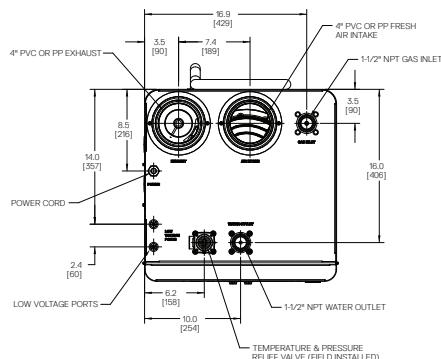


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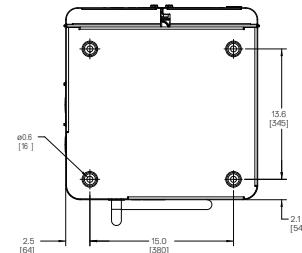
iN401 Specifications

| PARAMETER | MODELS |
|--|---|
| | iN401 |
| 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) | 399,999 |
| Maximum Output (BTU/hr) | 383,999 |
| Thermal Efficiency | 96% |
| Turn Down Ratio (TDR) | 13.3:1 |
| Water Inlet / Outlet Connections | 1-1/2" NPT |
| Gas Inlet Connection | 1-1/2" NPT |
| Condensate Drain Connection | 3/4" PVC |
| Maximum Condensate Flow Rate (GPH) | 2.8 |
| 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) | 345 LBS |
| Shipping Crate Dimensions H X W X D / Weight | 85 X 29.5 X 27 (Inches) / 445 (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) | 4" Ø |
| Max Vent Length - Single Pipe / Power Vent* | 250 FT |
| Max Vent Length - Two Pipe / Direct Vent* | 125 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 |
| 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 / 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 9.5 Amps, 16W (Standby) |
| Internal Water Volume (gallons) | 1 |
| Features | iN401 |
| Built-In Redundancy | Multiple Heat Engines with Individual Control |
| Cascading | Masterless, 4 units, Automatic Rotation |
| Common Venting | Yes - up to 4 units |
| Heat Exchanger | Expandable, Stainless 316L |
| Listing | ETL (Z21.10.3 / CSA 4.3), ASME HLW |
| Performance GPM | iN401 |
| Hot Water Capacity (45F Rise) | 17.1 |
| Hot Water Capacity (70F Rise) | 11.0 |
| Hot Water Capacity (90F Rise) | 8.6 |
| Hot Water Capacity (100F Rise) | 7.7 |
| Hot Water Capacity (140F Rise) | 5.5 |
| Warranty | Heat Exchanger Coil – 10 years, All Other Parts – 2 years |

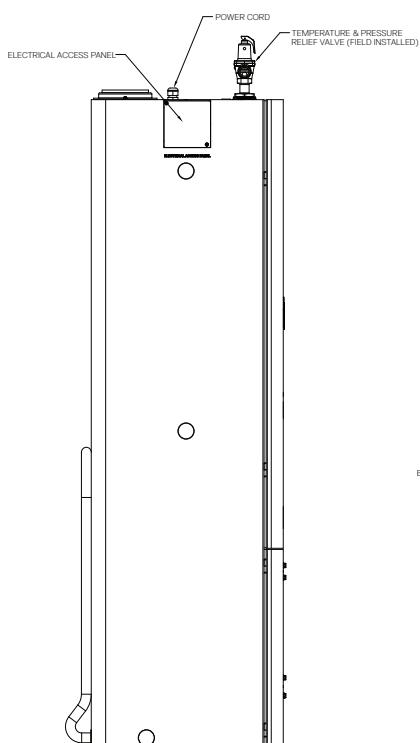
iN401 Dimensional Specifications



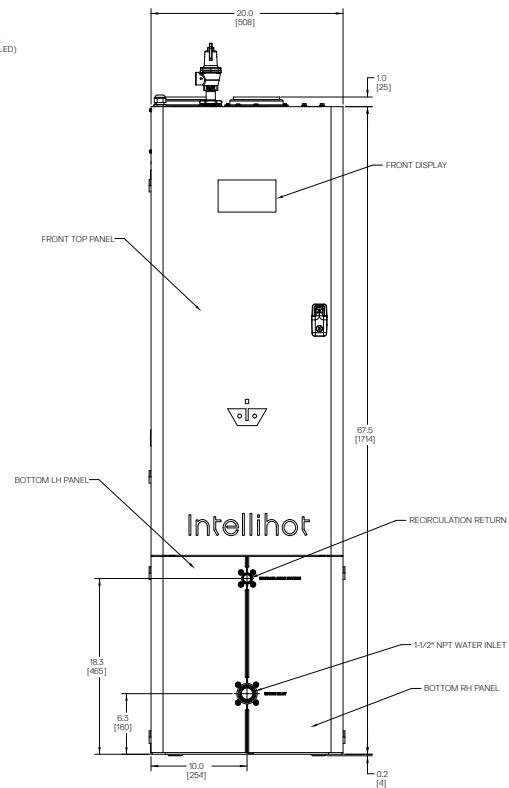
TOP VIEW



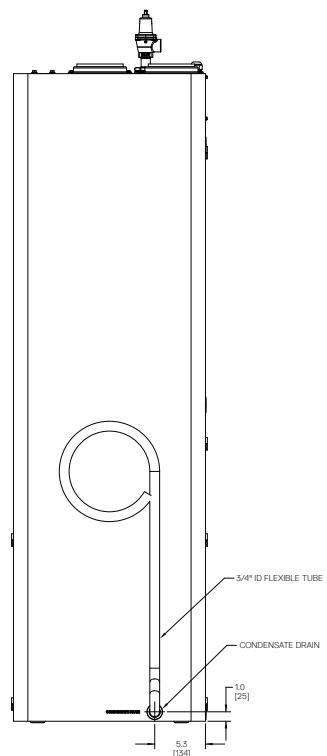
BOTTOM VIEW



SIDE VIEW



FRONT VIEW



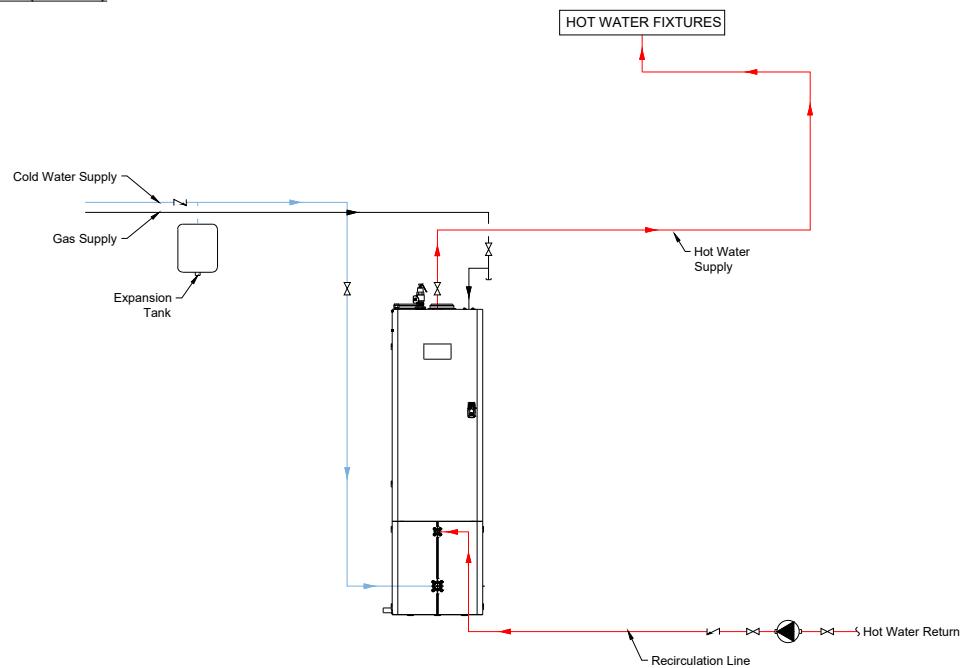
REAR VIEW



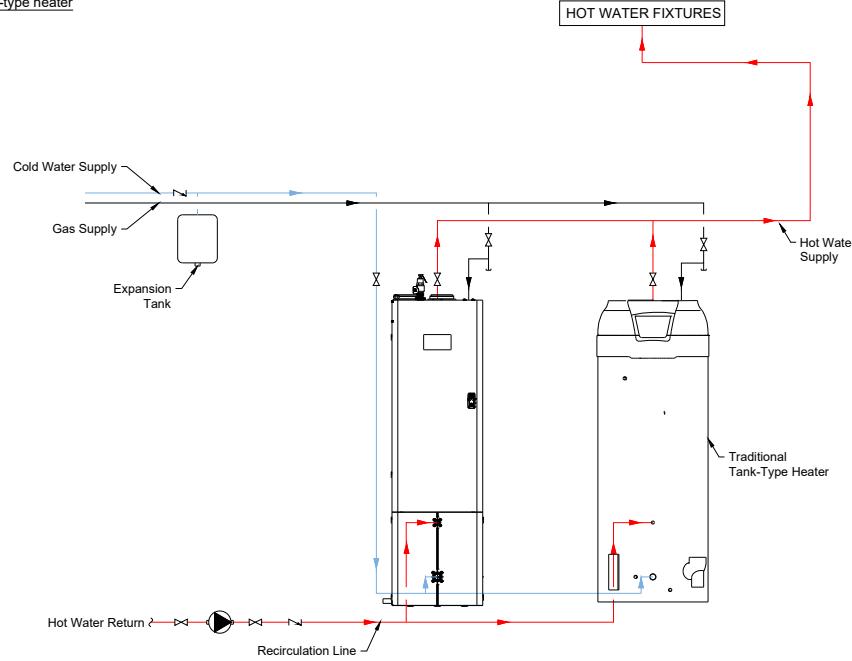
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iN401 Configuration Options

Neuron (1 UNIT)



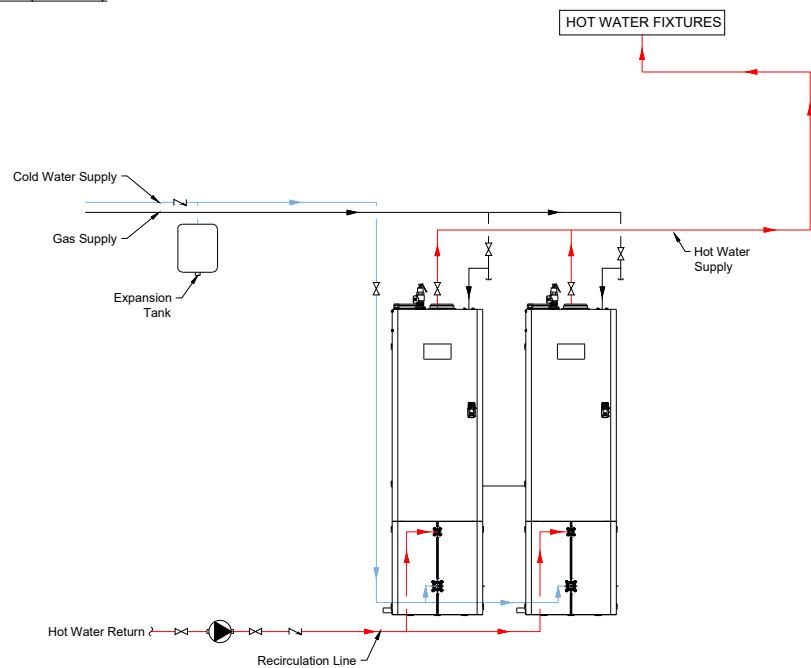
Neuron (1 UNIT)
w/ tank-type heater



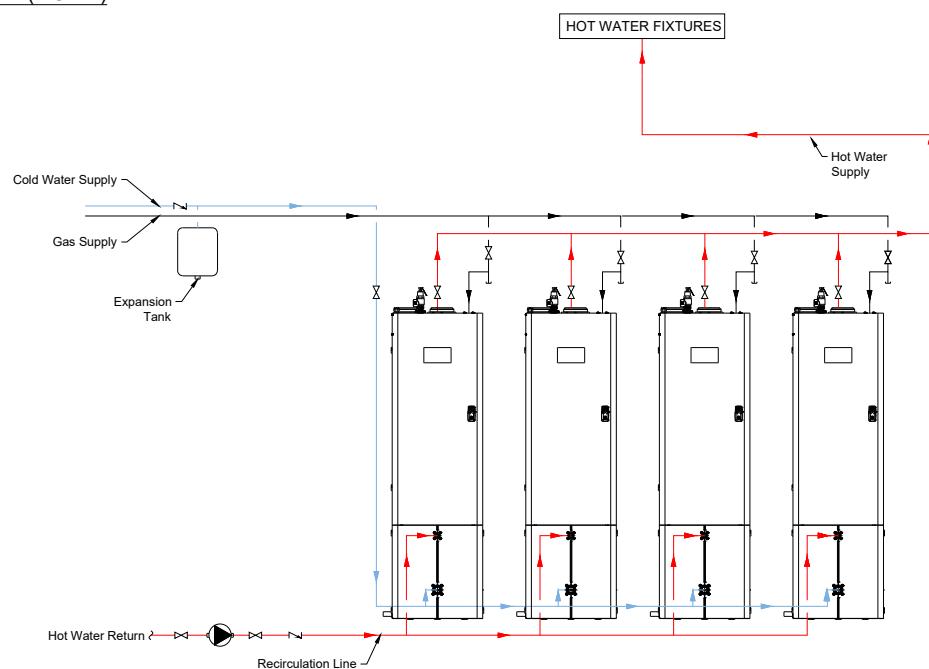
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iN401 Configuration Options

Neuron (2 UNIT)

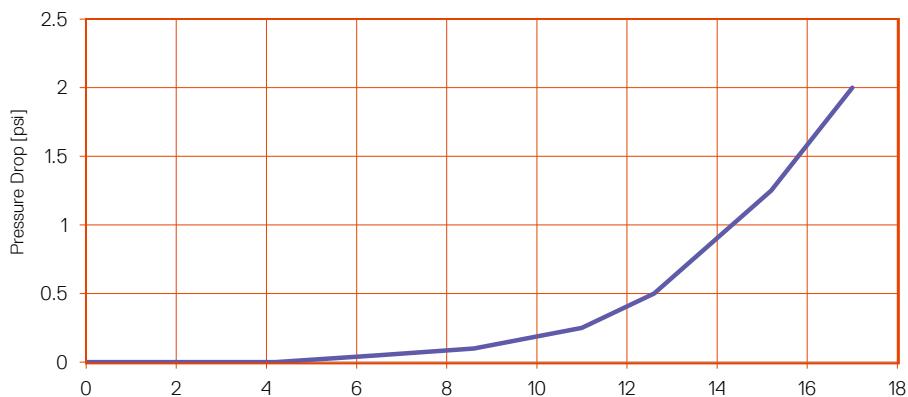


Neuron (4 UNIT)

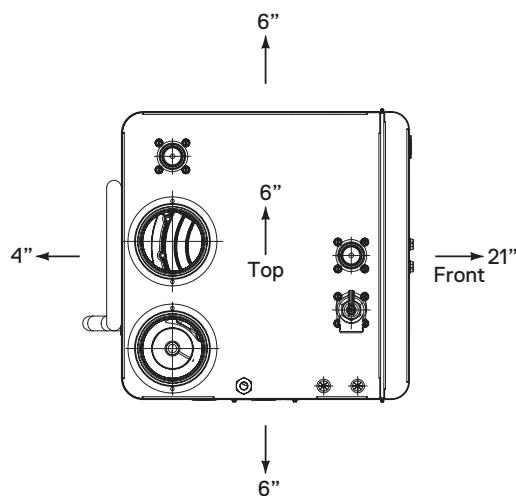


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iN401 Pressure Drop, Cascading Support & Clearance Requirements



| Neuron Cascading | | |
|--|--------------------|--------------------|
| Model (Max. Number of Cascaded Units) | iN401 | iN501 |
| iN401 | Yes (Max. 4 Units) | Yes (Max. 4 Units) |
| iN501 | Yes (Max. 4 Units) | Yes (Max. 4 Units) |
| All Other Models: i200, i250, iQ251, iQ251D, iQ751, iQ1001, iQ1501, iQ2001, and iQ3001 | Not Supported | |



| Location | Required | | Recommended |
|----------|-------------------|-----------------------|--------------------------------|
| | From Combustibles | From Non-Combustibles | Service Clearance ¹ |
| Top | 6" (152 mm) | 2" (50.8 mm) | 6" (152 mm) |
| Back | 5/8" (15.8 mm) | 5/8" (15.8 mm) | 4" (10 cm) |
| Sides | 1" (25.4 mm) | 1/2" (12.7 mm) | 6" (152 mm) |
| Front | 2" (51 mm) | 2" (50.8 mm) | 21" (53 cm) |
| Bottom | 0" (0 mm) | 0" (0 mm) | 0" (0 mm) |

¹ Service clearances are recommended dimensions to allow for normal service of the unit.

Service Clearances: If multiple units are installed, perform electrical connections first before making all other connections (gas, water, supply air, exhaust, and condensate). This will enable the above mentioned 6" side to side clearances.



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iN401 Venting

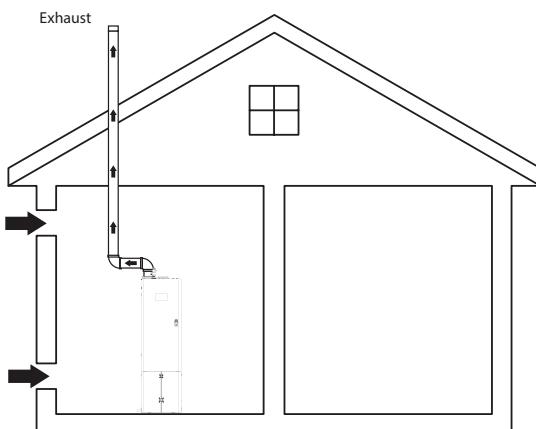
| Number of Units | Venting Type | Maximum Pipe Length in Feet | | |
|-----------------|--------------|-----------------------------|----------------------|----------------------|
| | | 4" Diameter iN401 | 6" Diameter iN401 | 8" Diameter iN401 |
| 1 | 1 Pipe | 250 | 250 | 250 |
| | 2 Pipe | 125 | 125 | 125 |
| 2 | 1 Pipe | 82 | 250 | 250 |
| | 2 Pipe | 41 | 125 | 125 |
| 3 | 1 Pipe | 40 | 250 | 250 |
| | 2 Pipe | 20 | 125 | 125 |
| 4 | 1 Pipe | - | - | 250 |
| | 2 Pipe | - | - | 125 |

1 Pipe - Only exhaust out pipe is connected and the combustion air intake is from within the room. For example, one iN401 with a 4" diameter, the maximum exhaust pipe length for 1 pipe is 250 feet.

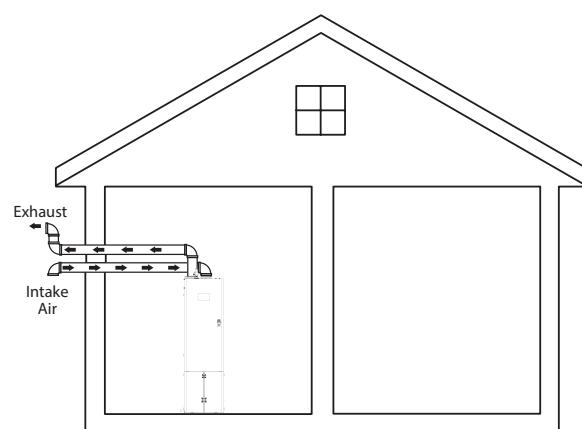
2 Pipes - Both the Combustion air intake and the exhaust pipe are connected. In this case, the table specifies the maximum length per pipe. For example, one iN401 with 4" diameter, 125 feet maximum is allowed for combustion air intake pipe and exhaust out pipe. The 125 feet maximum is per pipe.

Note:

1. Reduce the maximum equivalent length above by 5 feet per 90° elbow used and by 2 feet per 45° elbow used. Do not exceed the above set limits.
2. If multiple units are common vented, then the units must be cascaded. Please refer to the combustion section for how to do combustion with common vented units.



1-Pipe



2-Pipe

iN401 Electrical Data

Electrical power required for the water heater is 120V AC, 60 Hz. The circuit breaker shall be sized for a power consumption of 15A (FLA). Larger breakers can be used for multiple units. Please ensure correct polarity of wiring before powering up unit.



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