iQ2001, Gen II Submittal Data

| Date: | Bid Date: | | |
|---------------------|-----------------|-------------|---------|
| Project Name: | Fuel Type: | Natural Gas | Propane |
| Project #: | Factory Option: | iNTouch-BMS | |
| City State Zip: | | | |
| Engineer: | | | |
| Contractor: | | | |
| | | | |

| | Temperature Rise (ΔT)°F | | | | | | |
|------------|-------------------------|------|------|------|------|------|------|
| T. | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Flow (GPM) | 96.4 | 77.1 | 64.3 | 55.1 | 48.2 | 42.9 | 38.6 |



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" WC
- · ASME-HLW Compliant
- · Designed and Built in the U.S.
- 7" Color Touch Screen access to usage data, troubleshooting, and parts wear
- · Wi-Fi Connectivity

PERFORMANCE

- · Turndown Ratio of 66:1 per unit
- Cascade up to 3 units with common venting for a total of over 6,000MBH and a 200:1 total turndown ratio



Recommended Accessories iQ2001:

Condensate Neutralizer Kit - CN3001

This condensate is acidic, with a pH level between 3 and 4. Local building codes may require an in-line neutralizer to be installed (not included) to treat this water.

Outdoor Installation Kit - SPR0114

iBMS BacNET- SPR0117

Intellihot's iNTouch BMS has three unique features that are not available in any other BMS in the industry.

- External Pump Powers building recirculation pumps based on learned water usage of the building.
- Remote Setpoint Allows the temperature to be set remotely via a 0-10 VDC or 4-20mA signal.
- Alarm Buzzes if it detects anything wrong with any of the components it is connected to, and communicates the appropriate error codes so that the user knows which component needs attention.
- Run-time Status
- Louver Interlock
- Louver Power
- · Remote On/Off
- Tank Temperature Sensor if present
- Outdoor Temperature Monitor
- BACNET Interface with BMS/BAS
- Conveys flame status, error status, temperature, firing rate, blower speed, and performance history.
- Supports remote interlock.

Intellihot Exclusive Service:

telli**Care**™

Zero Downtime, Zero Worries, Zero Problems

24/7/365 monitoring – With telliCare your units will be monitored 24/7/365 by factory personnel, and should any problems arise, they can take appropriate action.

Monitor the boiler room from your phone:

- Notifications- telliCare monitors various parameters and sends appropriate notifications alerting of potential issues. These notifications can be delegated to the appropriate maintenance person or contracting company.
- Prognostics and Predictive Analytics our advanced predictive analytics make these reports available on your mobile device

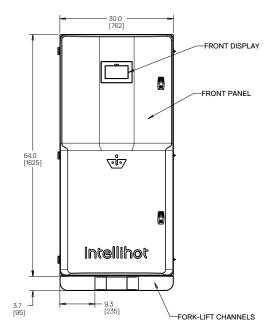
Available on Google play and the Apple app store.



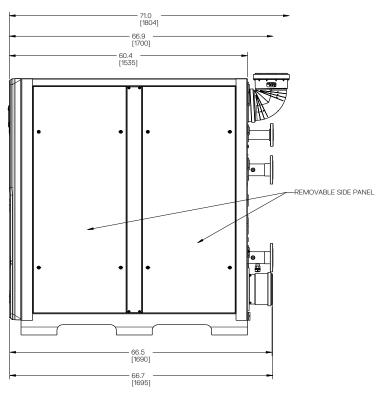
iQ2001 Specifications

| PARAMETERS | MODELS iQ2001, Gen II | | |
|---|--|--|--|
| TANAMETERS | | | |
| Туре | Indoor/Outdoor, Floor Mounted, Condensing, Fully Modulating, On-Demand Water Heater | | |
| Fuel | Preset for NG / LP convertible | | |
| Minimum Input (BTU/hr) | 30,000 | | |
| Maximum Input (BTU/hr) | 1,999,999 | | |
| Maximum Output (BTU/hr) | 1,919,999 | | |
| Thermal Efficiency | 96% | | |
| Turn Down Ratio (TDR) | 66:1 | | |
| Water Inlet / Outlet Connections | 3" Headers with 7.5" OD Flange | | |
| Gas Inlet Connection | 2" Gas Inlet With 6" OD Flange | | |
| Condensate Drain Connection | 3/4" Flex PVC | | |
| Maximum Condensate Flow Rate (GPH) | 14.4 | | |
| Dimensions H X W X D (Inches) | 67.7 X 30 X 60.4 (66 CU. FT) | | |
| Service Clearances | Recommend 24" on all sides, 32" in the front | | |
| | 1225 I BS | | |
| Weight (LBS) | Direct Vent (2 pipe - intake & exhaust), Power Vent (1 pipe - exhaust only) | | |
| Venting Type | 7 11 27 | | |
| 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 (AL 29-4C SS) | | |
| Vent Size (Diameter) | 8" Ø | | |
| Max Vent Length - Single Pipe / Power Vent* | 155 ft (8") | | |
| Max Vent Length - Two Pipe / Direct Vent* | 75 ft (8") | | |
| * Venting Note: From the ma | ximum 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 Monito Blocked Vent Detector, Dual Flame Sensing | | |
| Water Pressure Min / Max (PSIG) | 30 / 160 | | |
| Pressure Relief Valve (Select BTU/hr Input Rating to Match Model Max Input) | 1" | | |
| 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 Pressure for Adjustments | 8" WC for Natural Gas, 11" WC for Propane | | |
| Electrical | (2) 120V AC, 60 Hz | | |
| Power Consumption | (2) Max 20 Amps | | |
| Internal Water Volume (gallons) | 8 | | |
| Features | iQ 2001, Gen II | | |
| High Turn Down | 66:1 | | |
| Built-In Redundancy | Multiple Heat Engines w/ Individual Control | | |
| Cascading | Masterless, 3 units, Automatic Rotation | | |
| Common Venting | Yes - up to 3 units | | |
| Heat Exchanger | Expandable, Stainless 316L | | |
| Listing | ETL (Z21.10.3 / CSA 4.3), ASME HLW | | |
| Performance GPM | iQ 2001, Gen Ⅱ | | |
| Hot Water Capacity, 45F Rise (GPM) | 85.7 | | |
| Hot Water Capacity, 70F Rise (GPM) | 55.1 | | |
| | | | |
| Hot Water Capacity, 90F Rise (GPM) | 42.9 | | |
| Hot Water Capacity, 100F Rise (GPM) | 38.6 | | |
| Hot Water Capacity, 140F Rise (GPM) | 27.6 | | |
| Warranty (with recirculation, and unlimited thermal cycles) | Heat Exchanger Coil – 10 years, All Other Parts – 2 years | | |





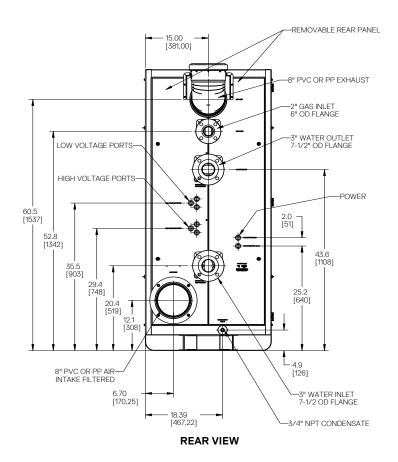
FRONT VIEW

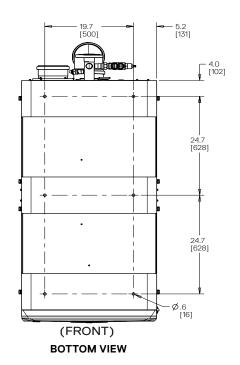


SIDE VIEW



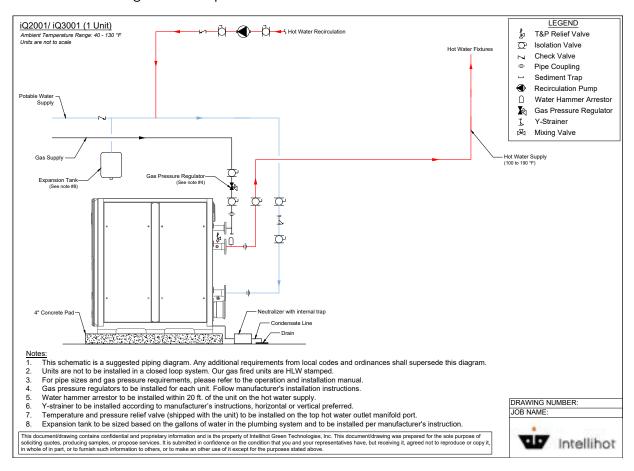
iQ2001 Dimensional Specifications

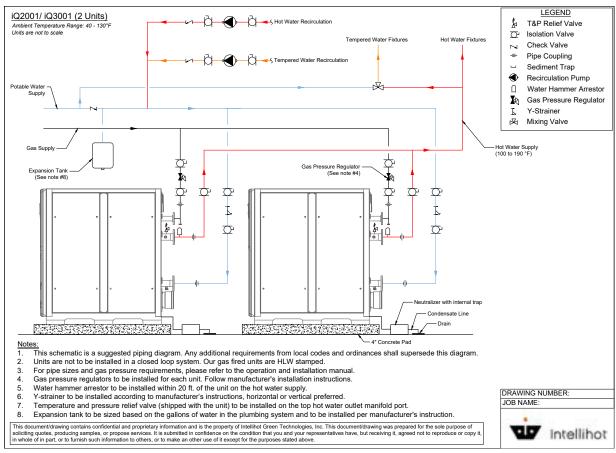




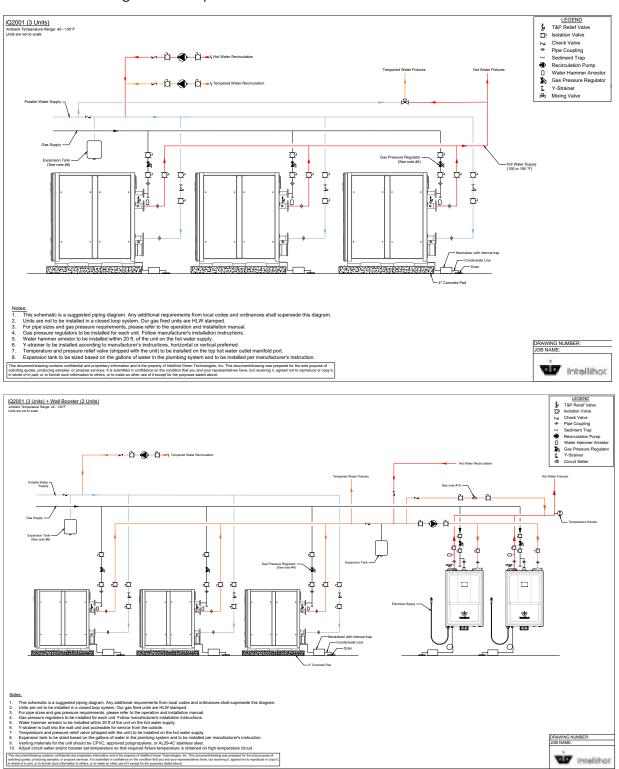


iQ2001, Gen II Configuration Options



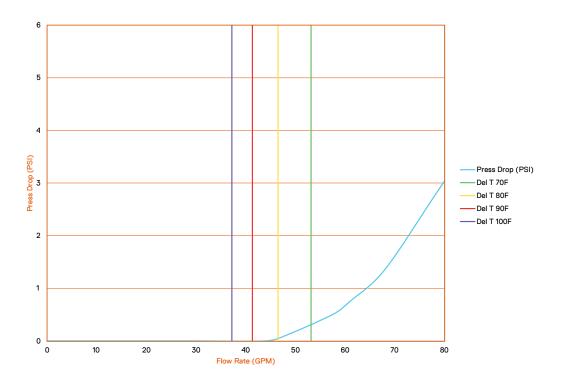


iQ2001, Gen II Configuration Options



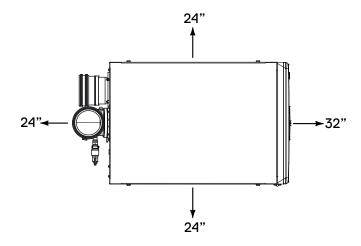


iQ2001, Gen II Pressure Drop & Clearance Requirements



| Location | Requ | Recommended | |
|----------|----------------------|---------------------------|-----------------------------------|
| | From Combustibles | From Non- Combustibles | Service Clearance ¹ |
| Тор | 6" (152 mm) | 2" (50.8 mm) | 18" (457 mm) |
| Back | 5/8" (15.8 mm) | 5/8" (15.8 mm) | 24" (610 mm) |
| Sides | 1" (25.4 mm) | 1/2" (12.7 mm) | 24" (610 mm) |
| Front | 2" (51 mm) | 2" (50.8 mm) | 32" (813 mm) |
| Bottom | 0" (0 mm) | 0" (0 mm) | 0" (0 mm) |

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





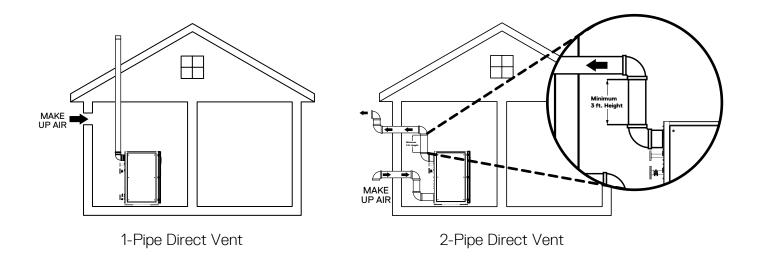
iQ2001, Gen II Venting

| Maximum Pipe Length in Feet | | | | | |
|------------------------------|-------------|-----------------|-----------------|-----------------|-----------------|
| Number Venting of Units Type | | 8" Diameter | 10" Diameter | 12" Diameter | 14" Diameter |
| | ,,, | i Q 2001 | i Q 2001 | i Q 2001 | i Q 2001 |
| 4 | 1 pipe - PV | 155 | 460 | 500 | 500 |
| 1 2 p | 2 pipe - DV | 75 | 230 | 250 | 250 |
| | 1 pipe - PV | 40 | 130 | 315 | 500 |
| 2 | 2 pipe - DV | 20 | 65 | 155 | 250 |
| 3 | 1 pipe - PV | - | 60 | 150 | 320 |
| | 2 pipe - DV | - | 30 | 75 | 160 |

PV = Power Vent DV = Direct Vent

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. SAFETY INSTRUCTIONS: Do not connect any other appliance vents to the water heater inlet or outlet pipes.



iQ2001, Gen II Electrical Data

Electrical power required for the water heater is (2) 120V AC, 60 Hz. The circuit breaker for each circuit (each unit has 2 circuits) shall be sized for a power consumption of 20A (FLA). Larger breakers can be used for multiple units. Please ensure correct polarity of wiring before powering up unit.

