


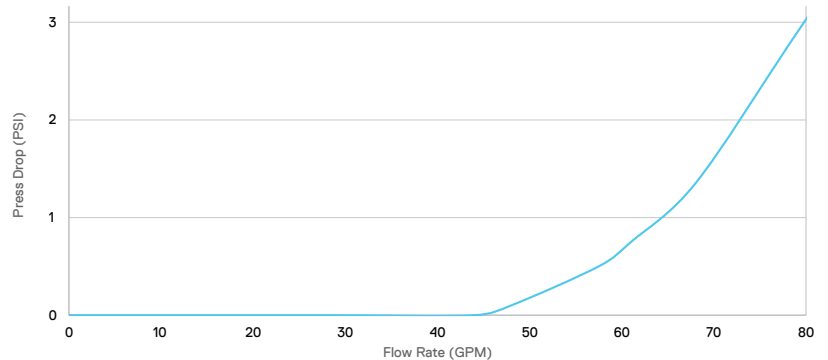
Commercial Tankless iQ2001, Gen II Submittal Data

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"/>	<input type="text"/>	<input type="text"/>
Engineer:	<input type="text"/>		
Contractor:	<input type="text"/>		

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



PRESSURE DROP VS. FLOW RATE



KEY FEATURES

- 8 Weldless 316L Stainless Steel Heat Exchangers with Individual Controls for Masterless Cascading
- ASME-HLW Compliant | Designed & Built in the U.S.
- Factory monitoring via telliCare messaging.
- Turn Down Ratio 66:1 per Unit, Cascade Up to 3 Units for 200:1 Turndown



iQ2001 Short Spec & Accessories

The water heater shall be a direct fired tankless, fully condensing, water-tube design. The power burner shall have full modulation. The minimum firing rate shall not exceed 30,000 BTU/HR. The heat exchanger shall be constructed with 316L stainless steel helical water tube and be fully floating with no welded joints. The water heater control system shall incorporate onboard multi-unit sequencing logic that would allow masterless cascading without the need for a master controller. The heat exchangers shall sequence between each other, operating in parallel to meet the load. Each heat exchanger will default to individual control upon failure of the sequencing chain. Changes to operational parameters on any one of the heat exchangers will automatically adjust all other heat exchangers to the most recent parameter change. The water heater shall utilize a low loss header design that utilizes an internal pump and heat exchanger bypass to reduce pressure drop through the vessel.

Recommended Accessories iQ2001:

1. Condensate Neutralizer Kit

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

2. Outdoor Installation Kit

3. iBMS BacNET

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

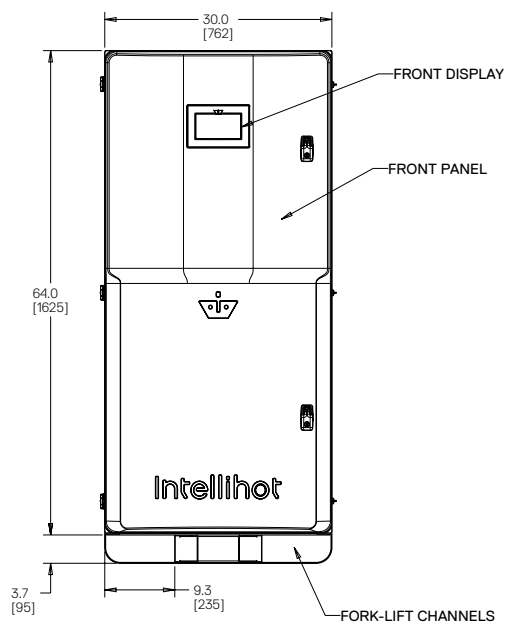
- External Pump Power – Powers building recirculation.
- Remote Setpoint – Allows the temperature to be set remotely via a 0-10 VDC or 4-20mA signal.
- Alarm – Buzzes if it detects anything wrong with any of the components it is connected to, and communicates the appropriate error codes so that the user knows which component needs attention.

iQ2001 Specifications

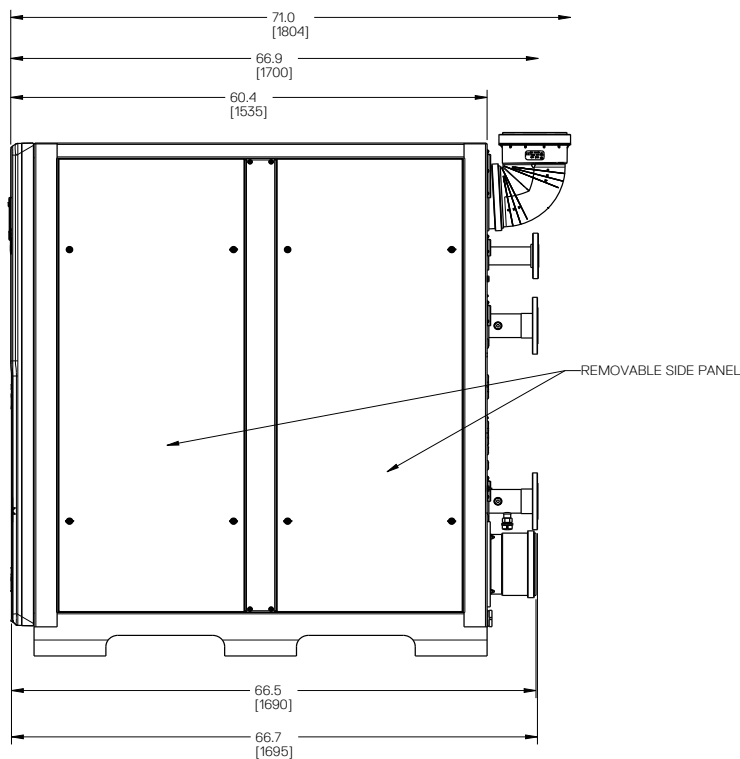
PARAMETERS	MODELS
	iQ2001, Gen II
Type	Indoor/Outdoor, Floor Mounted, Condensing, Fully Modulating, On-Demand Water Heater
Fuel	Preset for NG / LP convertible
Minimum Input (BTU/hr)	30,000
Maximum Input (BTU/hr)	1,999,999
Maximum Output (BTU/hr)	1,919,999
Thermal Efficiency	96%
Turn Down Ratio (TDR)	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
Weight (LBS)	1225 LBS
Venting Type	Direct Vent (2 pipe - intake & exhaust), Power Vent (1 pipe - exhaust 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 (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 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
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	iQ2001, 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	iQ2001, 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†	iQ2001, Gen II
Basic Warranty (without StartUp)	Hex – 1 Year, Parts – 1 Year, Labor - None
Enhanced Warranty (with StartUp)	Hex – 10 Years, Parts – 2 Years, Labor - None
Labor Warranty (with Start Up & telliCare Connection)	Hex – 10 Years, Parts – 2 Years, Labor - 1 Year

† 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 18.

iQ2001 Dimensional Specifications



FRONT VIEW

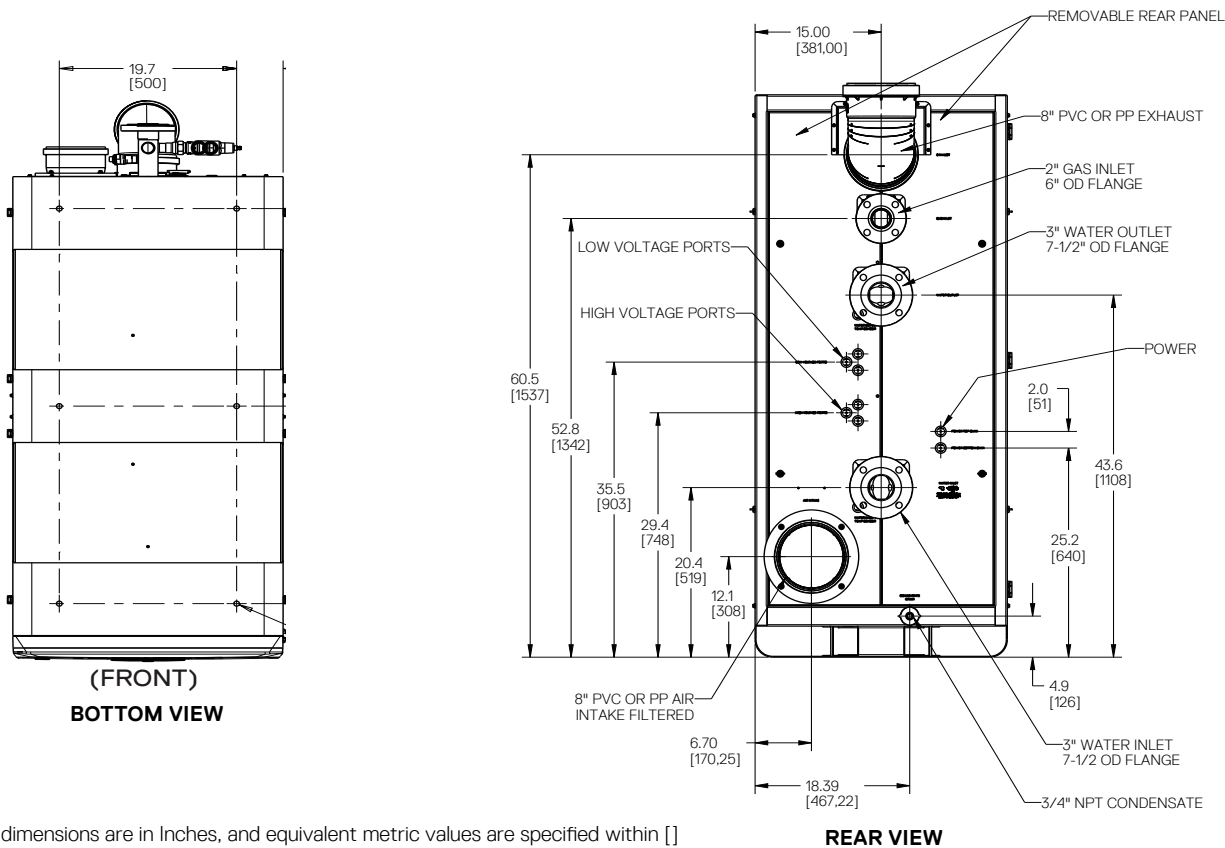


SIDE VIEW

Note: All dimensions are in Inches, and equivalent metric values are specified within []



iQ2001 Dimensional Specifications

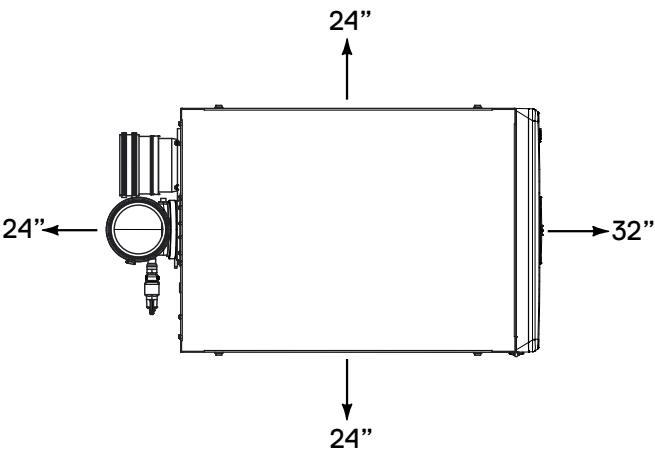


Note: All dimensions are in Inches, and equivalent metric values are specified within []

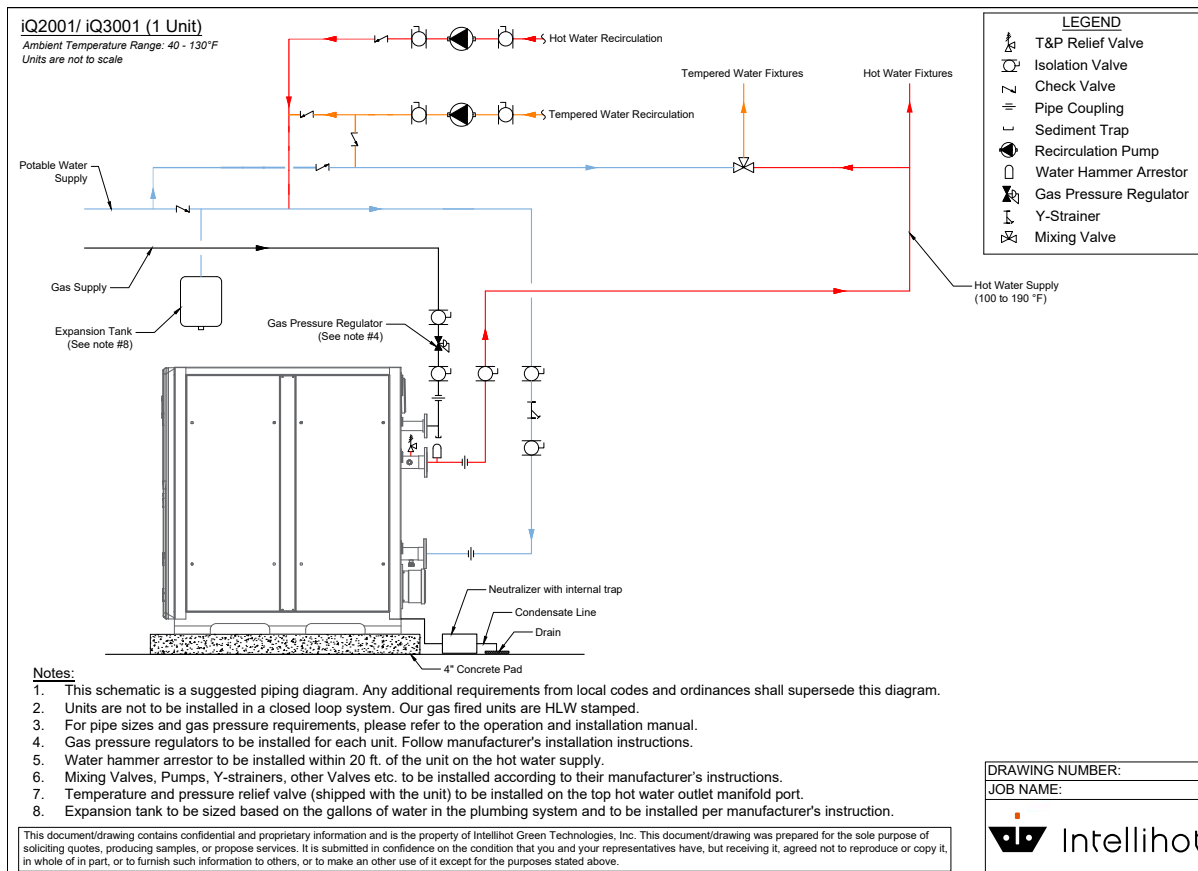
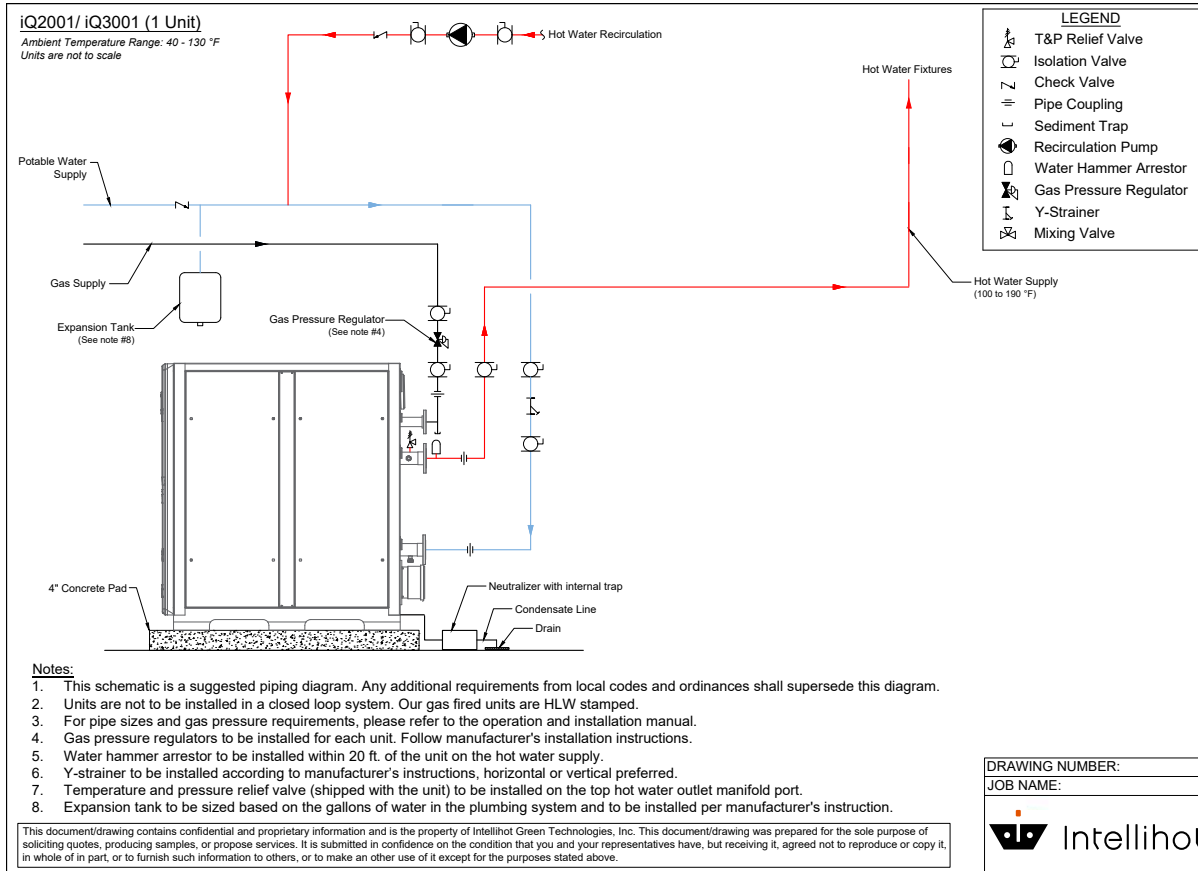
iQ2001, Gen II Service Clearances

Location	Required		Recommended Service Clearance ¹
	From Combustibles	From Non-Combustibles	
Top	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)

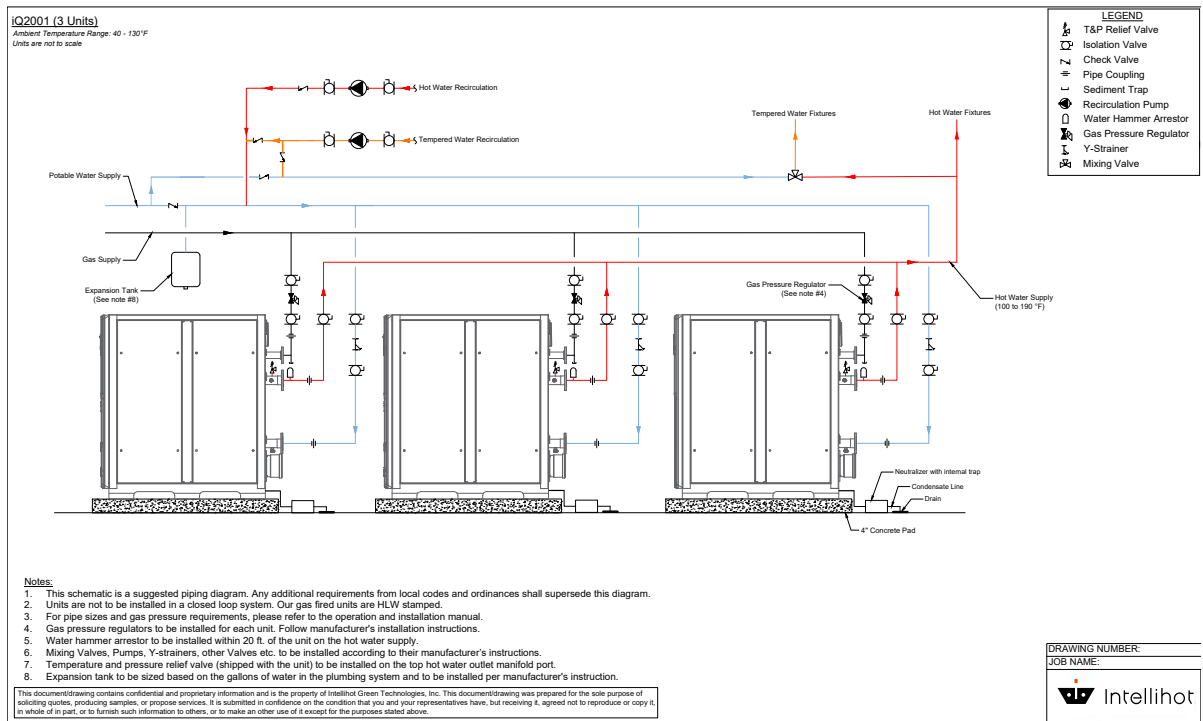
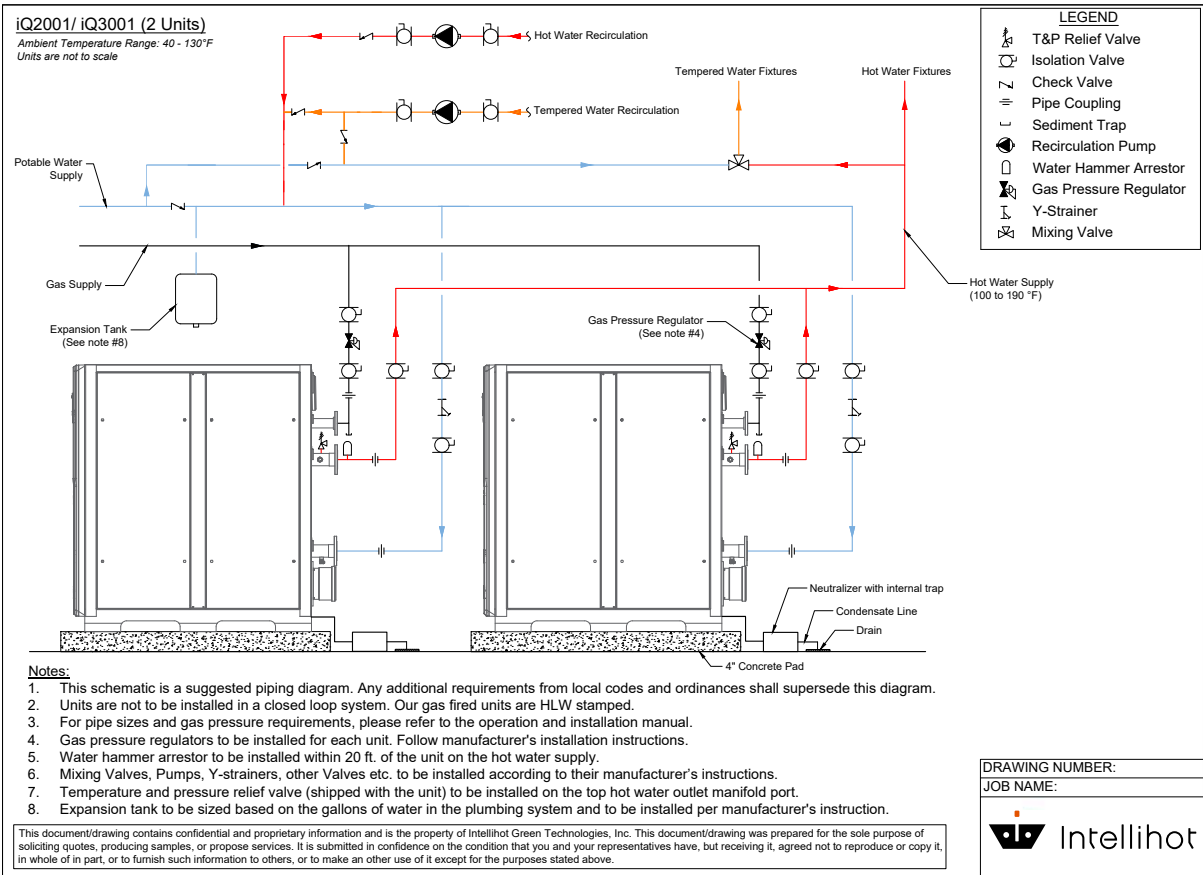
¹ Service clearances are recommended dimensions to allow for normal service of the unit.



iQ2001, Gen II Configuration Options



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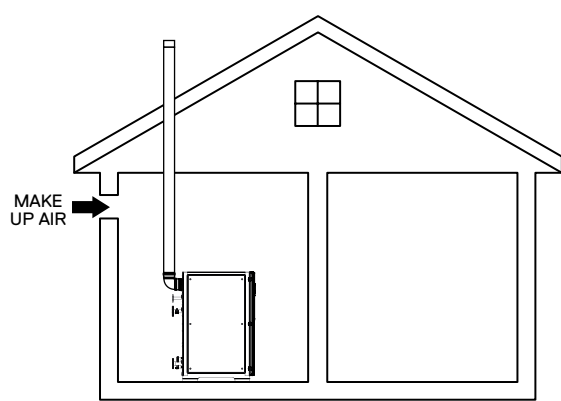
iQ2001, Gen II Venting Guidelines

Number of Units	Venting Type	Maximum Pipe Length in Feet			
		8" Diameter	10" Diameter	12" Diameter	14" Diameter
		iQ2001	iQ2001	iQ2001	iQ2001
1	1 pipe - PV	155	460	500	500
	2 pipe - DV	75	230	250	250
2	1 pipe - PV	40	130	315	500
	2 pipe - DV	20	65	155	250
3	1 pipe - PV	-	60	150	320
	2 pipe - DV	-	30	75	160

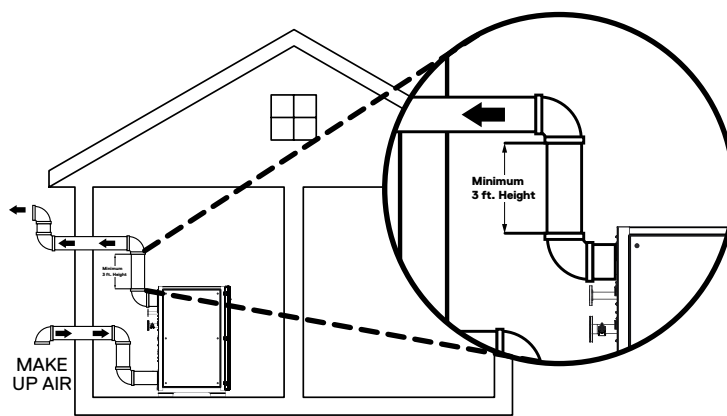
PV = Power Vent
DV = Direct Vent

Note:

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



1-Pipe Direct Vent



2-Pipe Direct Vent

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.

iQ2001, Gen II Cascading Compatibility

Model	Compatible (Max # of Cascaded Units)
iQ2001	Yes (Max 3 Units)
iQ3001	Yes (Max 2 Units)
All other Models (i200, i250, iQ251, iQ251D, iN401, iN501, iQ751, iQ1001 and iQ1501)	Not Supported