iQ3001, 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)	141.6	113.3	94.4	80.9	70.8	62.9	56.6



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 100:1 per unit
- Cascade up to 2 units with common venting for a total of over 6,000MBH and a 200:1 total turndown ratio

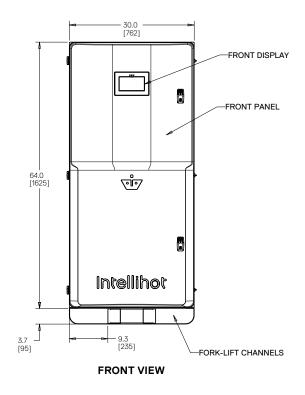


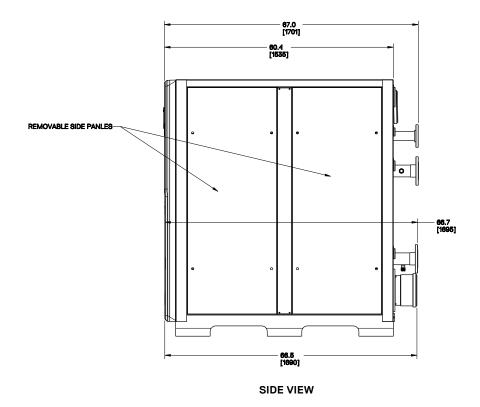
iQ3001 Specifications

PARAMETERS	MODELS iQ3001, Gen II Indoor/Outdoor, Floor Mounted, Condensing, Fully Modulating, On-Demand Water Heater		
TANAMETERO			
Туре			
Fuel	Preset for NG / LP convertible		
Minimum Input (BTU/hr)	30,000		
Maximum Input (BTU/hr)	3,001,000		
Maximum Output (BTU/hr)	2, 820,940		
Thermal Efficiency	94%		
Turn Down Ratio (TDR)	100:1		
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)	21.6		
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)	1645 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*	70 ft (8")		
Max Vent Length - Two Pipe / Direct Vent*	35 ft (8")		
* Venting Note: From the ma	aximum 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)	2.5" WC		
NG/LP - Maximum Static Gas Pressure	14" WC		
Gas Pressure for Adjustments	8" WC for NG, 11" WC for LP		
Electrical	(2) 120V AC, 60 Hz		
Power Consumption	(2) Max 30 Amps		
Internal Water Volume (gallons)	12		
Features	iQ 3001, Gen II		
High Turn Down	100:1		
Built-In Redundancy	Multiple Heat Engines w/ Individual Control		
Cascading	Masterless, 2 units, Automatic Rotation		
Common Venting	Yes - up to 2 units		
Heat Exchanger	Expandable, Stainless 316L		
Listing	ETL (Z21.10.3 / CSA 4.3), ASME HLW		
Performance GPM	iQ3001, Gen II		
Hot Water Capacity (45F Rise)	125.9		
Hot Water Capacity (49F Rise)	80.9		
Hot Water Capacity (1905 Rise)	62.9		
Hot Water Capacity (100F Rise)	56.9		
Hot Water Capacity (140F Rise)	40.5		
Narranty (with recirculation, and unlimited thermal cycles)	Heat Exchanger Coil – 10 years, All Other Parts – 2 years		



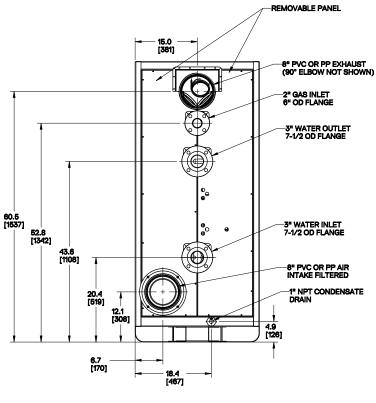
iQ3001 Dimensional Specifications



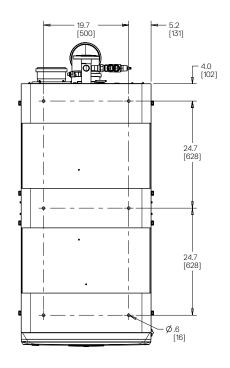




iQ3001 Dimensional Specifications



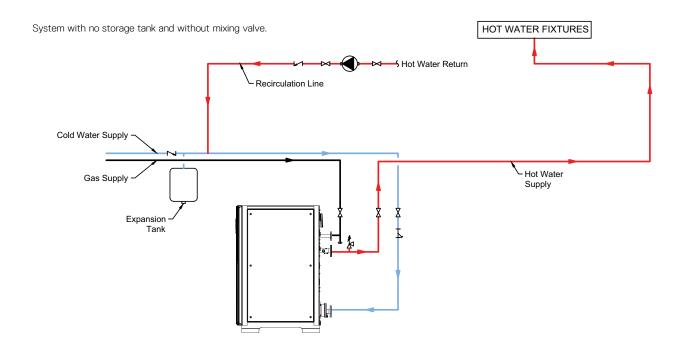
REAR VIEW



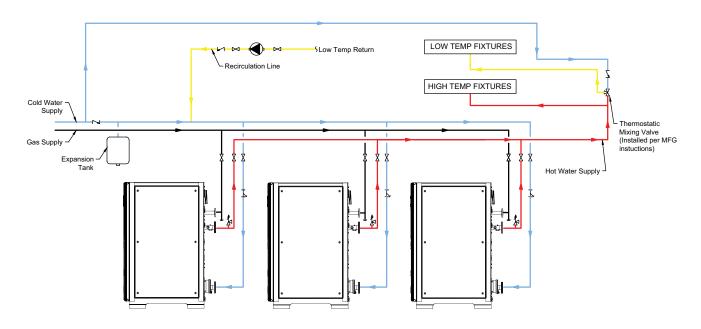
BOTTOM VIEW



iQ3001, Gen II Configuration Options

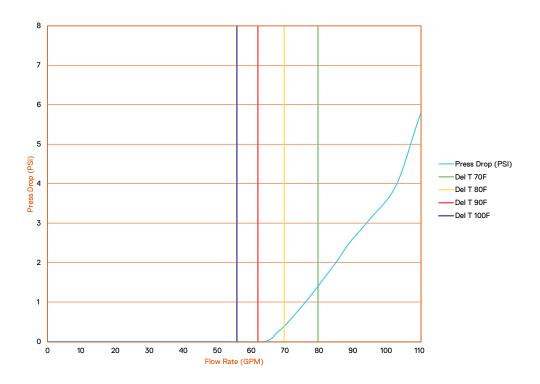


Multiple unit system with mixing valve but no storage tank.



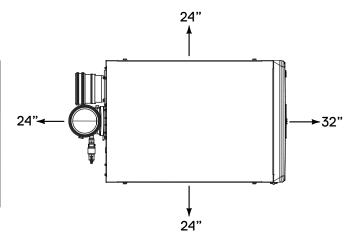


iQ3001, Gen II Pressure Drop & Clearance Requirements



Location	Required		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.

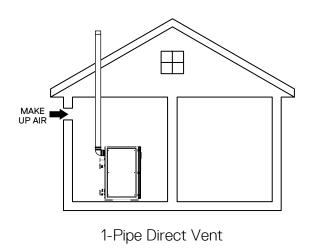


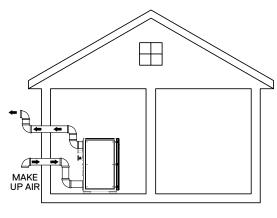


iQ3001, Gen II Venting

Maximum Pipe Length in Feet					
Number	Venting Type	8" Diameter	10" Diameter	12" Diameter i Q 3001	
		i Q 3001	i Q 3001		
1	1 pipe - PV	70	220	220	
1	2 pipe - DV	35	110	110	
2	1 pipe - PV	-	60	150	
2	2 pipe - DV	-	30	75	
⁵ V = Pov	wer Vent				
DV = Dire	ect 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.





2-Pipe Direct Vent

iQ3001, 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 30A (FLA). Larger breakers can be used for multiple units. Please ensure correct polarity of wiring before powering up unit.

