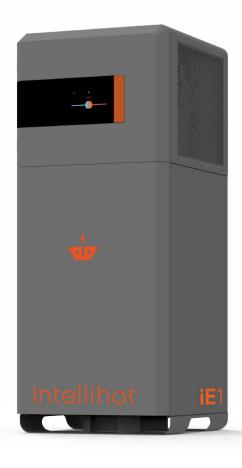
iE1 Submittal Data

Date:	Bid Date:	
Project Name:	Factory Option:	Solar
Project #:	Electric Option:	iE1 Std
City State Zip:		iE1 Mid
Engineer:		iE1 Max
Contractor:		

Operational		Temperature Rise (ΔT)°F - (80 °F Ambient Temperature)										
Modes	30	40	50	60	70	80	90	100	110	120	130	140
iE1 STD (GPH)	227	170	136	114	97	85	76	68	62	57	52	49
iE1 MID (GPH)	309	232	185	155	132	116	103	93	84	77	71	66
iE1 MAX (GPH)	391	293	235	195	168	147	130	117	107	98	90	84



KEY FEATURES

- · No storage, tankless, heats on-demand
- · Uses CO₂, GWP of 1
- · Suitable for high-pressure multistory buildings
- · Handles tough hard water scale
- · Produces water up to 170°F

DESIGN FEATURES

- · Cellular connectivity with 24/7 factory monitoring
- · Automatic software update over the air
- · Grid enabled (CTA-2045)
- · Wirelessly cascade over Bluetooth up to 6 units
- · Can be installed indoors or outdoors
- · Compact and lightweight
- · Designed and built in the US

OPERATIONAL MODES

- Efficiency
- · Hybrid
- Electric
- · Self-learning



iE1 Specifications

Type Power Source Supply Input Voltage Number of Wires Electric Input, kW Heating Output (BTU/Hr) Current, FLA (Amps) Minimum Circuit Ampacity, MCA (Amps) Minimum Recommended Circuit Breaker Maximum Overcurrent Protection, MOP (Amps) Resistive Heating Elements COP Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range Temperature Stability		Indoor / Outdoor, Floor Mounted Electric 208 V AC, 60 5 Wires (L1, L2, L 9.4 Up to 77,000 45.4 49.6 50 70 1 (6 kW) Up to 4.9 (without Heating Elements) Rotary witch, Thermal Cutout, and Overheat Page 10 (10 mounts)	23, N and G) 15.4 Up to 97,000 74.2 54.1 60 90 2 (2 x 6 kW)			
Supply Input Voltage Number of Wires Electric Input, kW Heating Output (BTU/Hr) Current, FLA (Amps) Minimum Circuit Ampacity, MCA (Amps) Minimum Recommended Circuit Breaker Maximum Overcurrent Protection, MOP (Amps) Resistive Heating Elements COP Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range	3 Wires (L1, L2 and G) 3.4 Up to 57,000 16.6 20.8 25 35 0	208 V AC, 60 5 Wires (L1, L2, L 9.4 Up to 77,000 45.4 49.6 50 70 1 (6 kW) Up to 4.9 (without Heating Elements) Rotary witch, Thermal Cutout, and Overheat P	23, N and G) 15.4 Up to 97,000 74.2 54.1 60 90 2 (2 x 6 kW)			
Number of Wires Electric Input, kW Heating Output (BTU/Hr) Current, FLA (Amps) Minimum Circuit Ampacity, MCA (Amps) Minimum Recommended Circuit Breaker Maximum Overcurrent Protection, MOP (Amps) Resistive Heating Elements COP Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range	3 Wires (L1, L2 and G) 3.4 Up to 57,000 16.6 20.8 25 35 0	5 Wires (L1, L2, L 9.4 Up to 77,000 45.4 49.6 50 70 1 (6 kW) Up to 4.9 (without Heating Elements) Rotary witch, Thermal Cutout, and Overheat Po	23, N and G) 15.4 Up to 97,000 74.2 54.1 60 90 2 (2 x 6 kW)			
Electric Input, kW Heating Output (BTU/Hr) Current, FLA (Amps) Minimum Circuit Ampacity, MCA (Amps) Minimum Recommended Circuit Breaker Maximum Overcurrent Protection, MOP (Amps) Resistive Heating Elements COP Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range	3.4 Up to 57,000 16.6 20.8 25 35	9.4 Up to 77,000 45.4 49.6 50 70 1 (6 kW) Up to 4.9 (without Heating Elements) Rotary witch, Thermal Cutout, and Overheat Proceedings of the second s	15.4 Up to 97,000 74.2 54.1 60 90 2 (2 x 6 kW)			
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Current, FLA (Amps) Minimum Circuit Ampacity, MCA (Amps) Minimum Recommended Circuit Breaker Maximum Overcurrent Protection, MOP (Amps) Resistive Heating Elements COP Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range	16.6 20.8 25 35 0	45.4 49.6 50 70 1 (6 kW) Up to 4.9 (without Heating Elements) Rotary witch, Thermal Cutout, and Overheat Po	74.2 54.1 60 90 2 (2 x 6 kW)			
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Minimum Recommended Circuit Breaker Maximum Overcurrent Protection, MOP (Amps) Resistive Heating Elements COP Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range	25 35 0	50 70 1 (6 kW) Up to 4.9 (without Heating Elements) Rotary witch, Thermal Cutout, and Overheat Po	60 90 2 (2 × 6 kW)			
Maximum Overcurrent Protection, MOP (Amps) Resistive Heating Elements COP Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range	35 0	70 1 (6 kW) Up to 4.9 (without Heating Elements) Rotary witch, Thermal Cutout, and Overheat Po	90 2 (2 x 6 kW)			
Resistive Heating Elements COP Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range	0	1 (6 kW) Up to 4.9 (without Heating Elements) Rotary witch, Thermal Cutout, and Overheat P	2 (2 × 6 kW)			
COP Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range		Up to 4.9 (without Heating Elements) Rotary witch, Thermal Cutout, and Overheat P				
Compressor Type Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range		Rotary witch, Thermal Cutout, and Overheat P	rotection			
Safety Devices Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range	Pressure S	witch, Thermal Cutout, and Overheat P	rotection			
Ambient Installation Temperature Air Flow Requirement Outlet Water Temperature Range	Pressure S		rotection			
Air Flow Requirement Outlet Water Temperature Range						
Air Flow Requirement Outlet Water Temperature Range		-10° to 110°F				
Outlet Water Temperature Range		3500 CFM				
	100°F to 170°F					
	+/- 4°F					
Connectivity		Cellular and Bluetooth				
Operational Modes	Efficiency, Hybrid, Electric, Self-learning					
Grid Connectivity	Via CTA-2045 module (customer supplied)					
Refrigerant		R744, CO2 refrigerant				
Refrigerant Charge Quantity	3.96lbs (1.8 kg)					
Refrigerant Max Allowable Pressure	2175 PSI (15 MPa)					
Cascading Protocol		Masterless, Up to 6 units				
Noise Level	Up to 55 dBA					
Domestic Heat Exchanger	Stainless Steel, 316L Water-Propylene-Glycol based Thermal Battery					
Energy Storage	vvate	a i ropyrene-drycorpased Mermai Balli	от y			
Water Inlet & Outlet Connections		1-1/2" NPT Female				
Unit Dimensions H X W X D	72 in X 30 in X 30 in					
Shipping Weight / Unit Weight	620 lbs. / 540 lbs.					
Water Pressure Min / Max	3	0 PSI (0.21 MPa) / 160 PSI (1.1 MPa)				
Clearances						
Back		24"				
Front		30"				
Тор		30"				
Sides		12"				
Certifications Warranty	Energy Star, NSF 372, UL 60355-2-40, CSA C22.2 and CTA-2045 1 Year on Parts and Compressor, 3 Years on Thermal Battery					

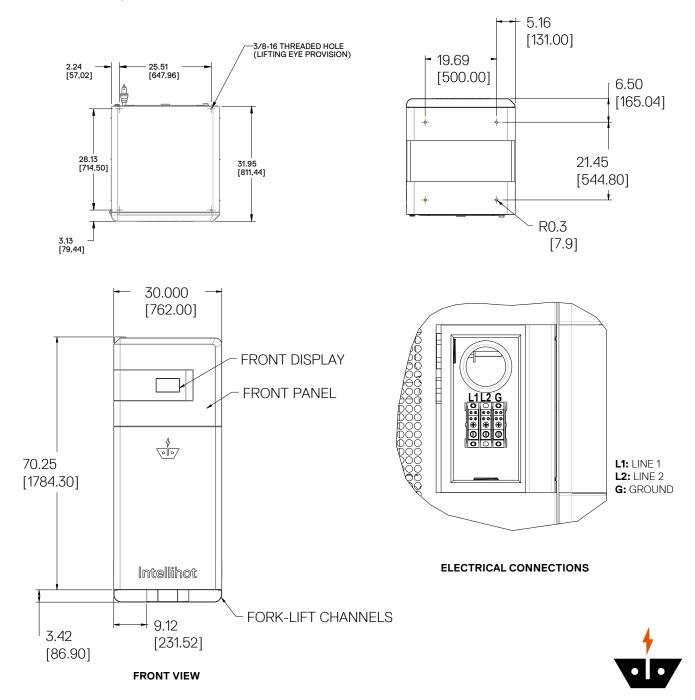


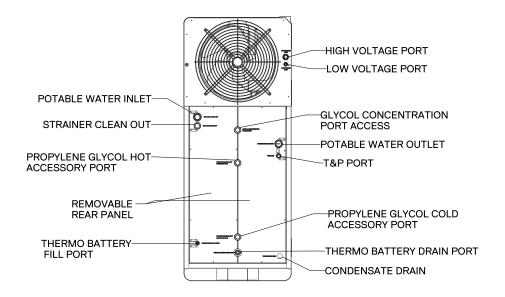
iE1 Electrical Requirements

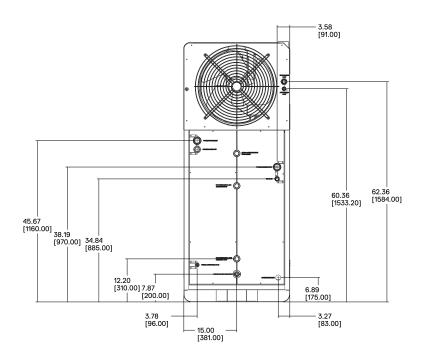
Electrical power required for the water heater is 208 VAC, 60 Hz. Each unit must have it's own dedicated breaker with a shut off switch. The shut off switch located near the sight of the water heater for maintenance and emergency shut off. Please ensure correct polarity of wiring before powering up unit. Select a model that suits your electrical infrastructure the best:

	iE 1Std	iE 1Mid	i E 1Max
Minimum Breaker Size	25 Amps	50 Amps	60 Amps

iE1 Dimensional Specifications



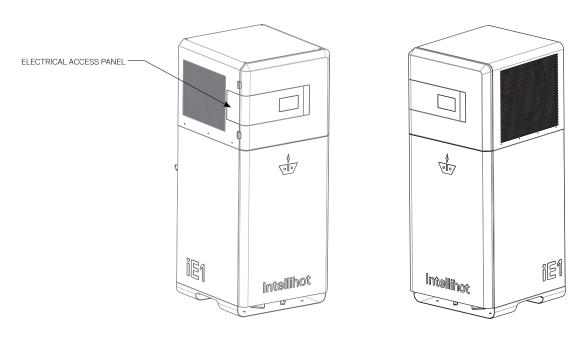




BACK VIEW

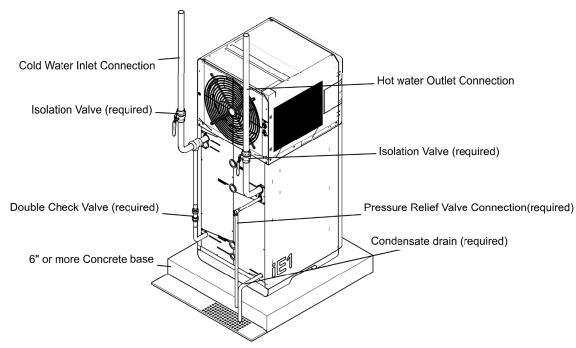


iE1 Dimensional Specifications



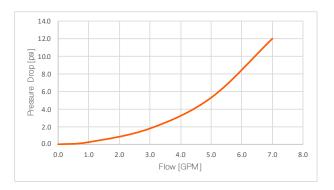
SIDE VIEWS

iE1 Plumbing Setup





iE1 Pressure Drop



iE1 Cascading

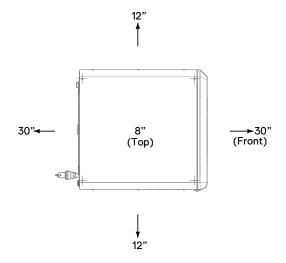
Up to six units can be cascaded wirelessly using the built-in Bluetooth capability.

iE1 Clearance Requirements

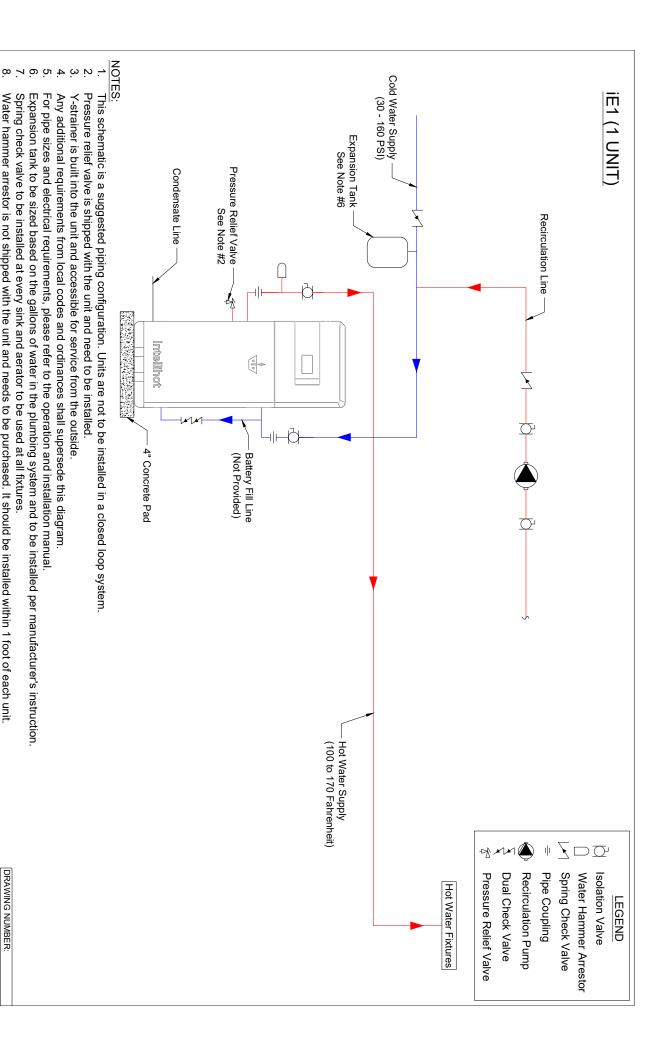
The clearances are listed in the table below. For ease of installation and in order to achieve service clearances, perform electrical connections first before making all other connections (water and condensate).

Clearance	Requ	Recommended		
	From Combustibles	From Non- Combustibles	Service Clearance ¹	
Тор	8"	8"	30"	
Back	30"	30"	30"	
Sides	24"	24"	30"	
Front	30"	30"	30"	

¹ Required clearances to enable easier service of the unit.







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Water hammer arrestor is not shipped with the unit and needs to be purchased. It should be installed within 1 foot of each unit.

DRAWING NUMBER: JOB NAME:

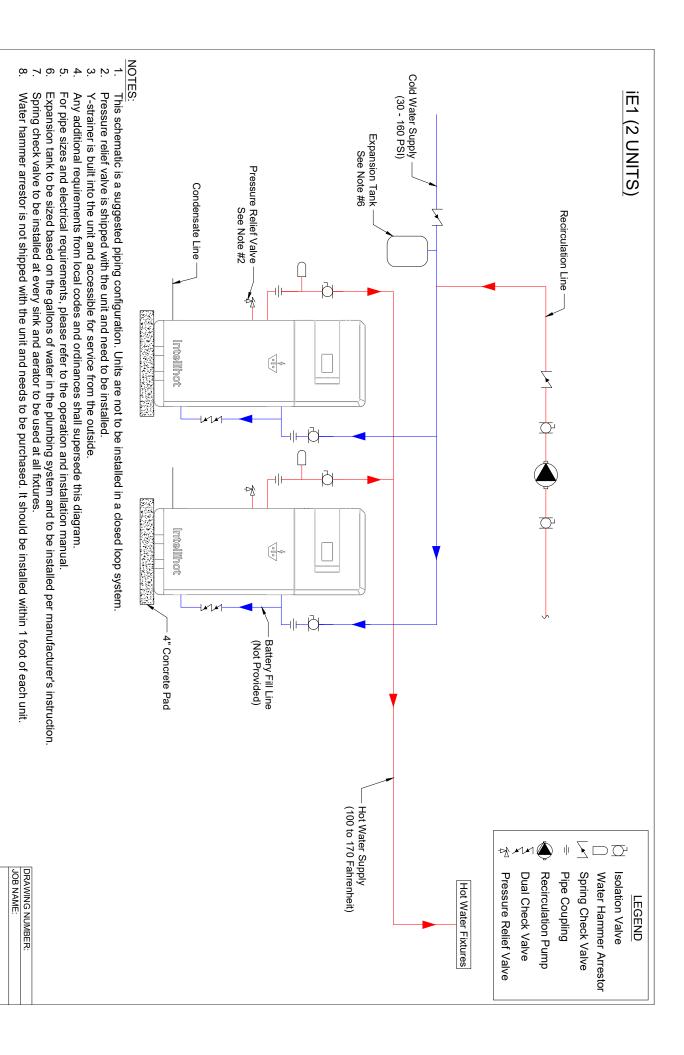
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Expansion tank to be sized based on the gallons of water in the plumbing system and to be installed per manufacturer's instruction.

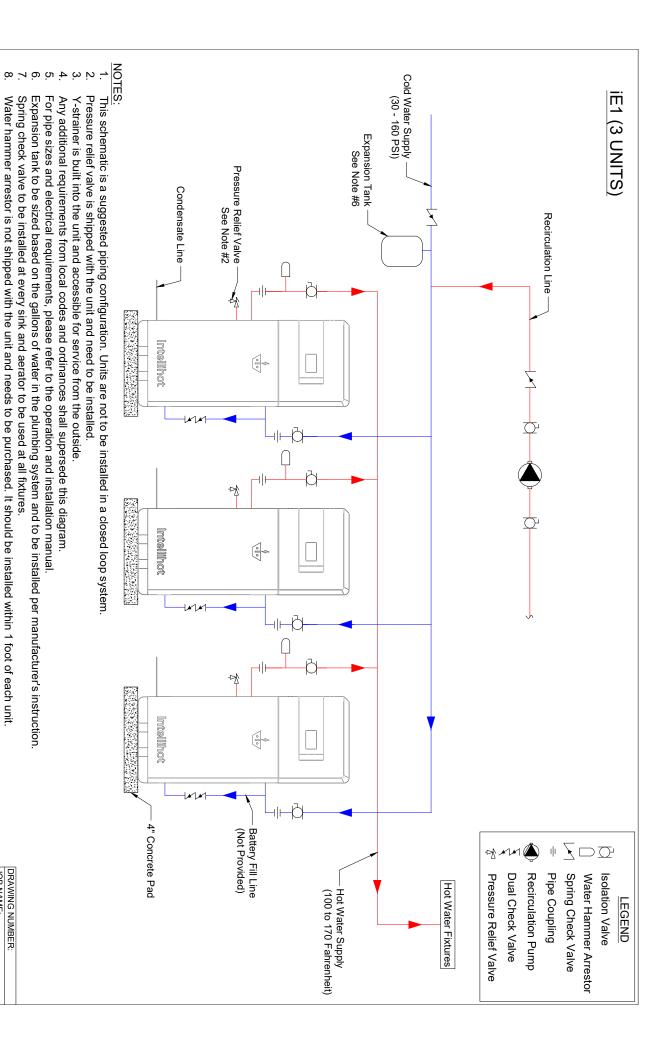
For pipe sizes and electrical requirements, please refer to the operation and installation manual

Spring check valve to be installed at every sink and aerator to be used at all fixtures.



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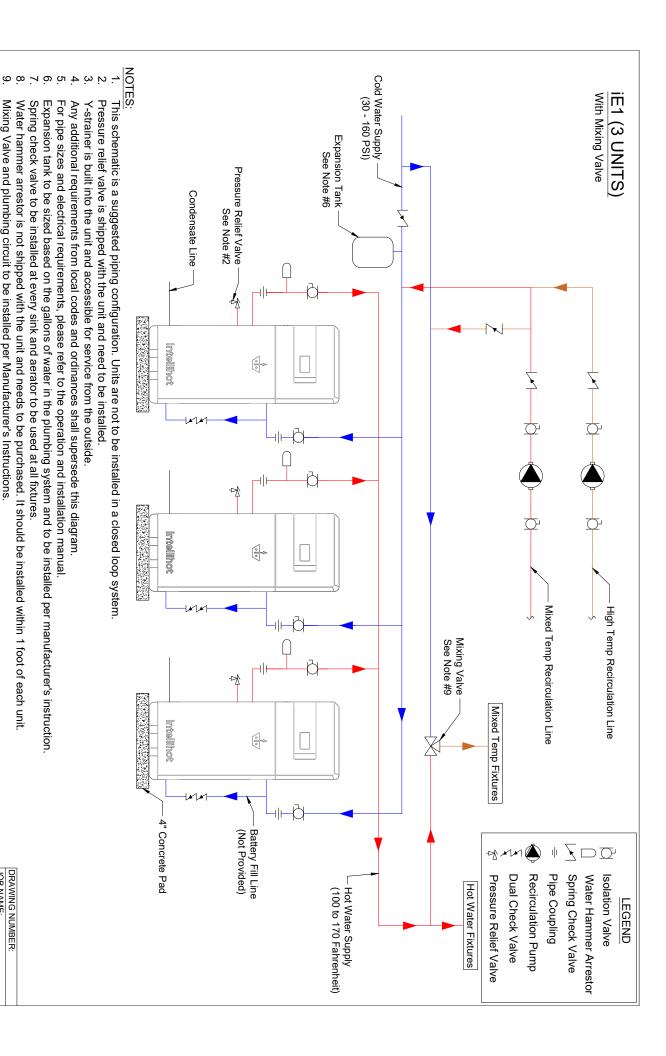


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Mixing Valve and plumbing circuit to be installed per Manufacturer's Instructions

DRAWING NUMBER: JOB NAME

6

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