



E-3000B High Efficiency Gas Condensing Boiler

Submittal Sheet

Section 1 - Specifications
Section 2 - Dimensions
Section 3 - Electrical

Project Name: _____ Date: _____
Location: _____
Engineer: _____
Contractor: _____ Rep: _____

1 SPECIFICATIONS

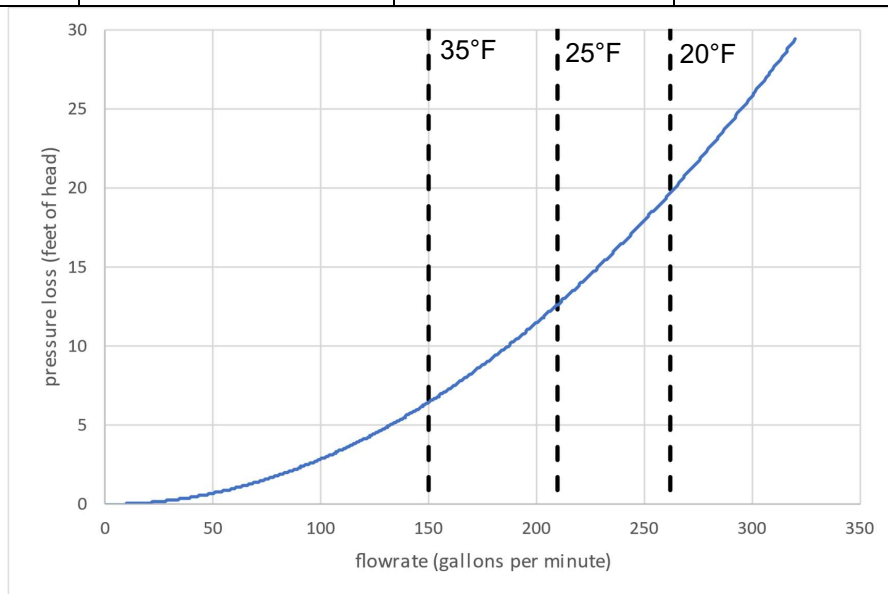
General Specifications

- ▶ Product Features
 - Certified to ANSI Z21.13 / CSA 4.9 Gas Boiler Standard
 - ASME "H" stamped, designed and constructed in compliance with the ASME Boiler and Pressure Vessel Code Section IV
 - SA-249 TP316L Stainless Steel Heat Exchanger
 - Maximum System Water Pressure 160 psi [1100 kPa]
 - Field conversion from Natural Gas (factory) to Propane
 - Modulating Burner, 7:1 Turndown, Low Nox emissions <20ppm
 - Direct Spark Ignition, Sealed Combustion
 - Outdoor Model Std. with Freeze Protection
 - Easy serviceability
- ▶ Factory Supplied Items
 - 30PSI ASME Pressure Relief Valve
 - ANSI Flange Adapters
- ▶ Control Features
 - Integrated cascade manager up to 16 units
 - Optimized connectivity options (0-10V, Modbus, etc.)
 - Low Water Flow Safety Control and Indication
- ▶ Touchscreen Features
 - Performance Graphs for Single and Cascaded units
 - Live status screen for 10+ values (temp, flow rate, etc.)

Water Connections ANSI FLG, in.	Gas Connection NPT, in.	Vent/Air-inlet Pipe Diameter, in.	Vent/Air-inlet Max. Length, NG/LP, ft.	Approx. Weight with Water, lb.
4	2 (Male)	10 / 12	150 / 150	2273

Performance Specifications

Input Modulation, MBH	Gross Output, MBH	AHRI Net Rating, MBH	Combustion Efficiency, %	Thermal Efficiency, %
420 – 3000	2858	2485	97.5	99



Ace Heaters
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Ace Heaters reserves the right to change these specifications without notice

Version Date : 2024-02-15



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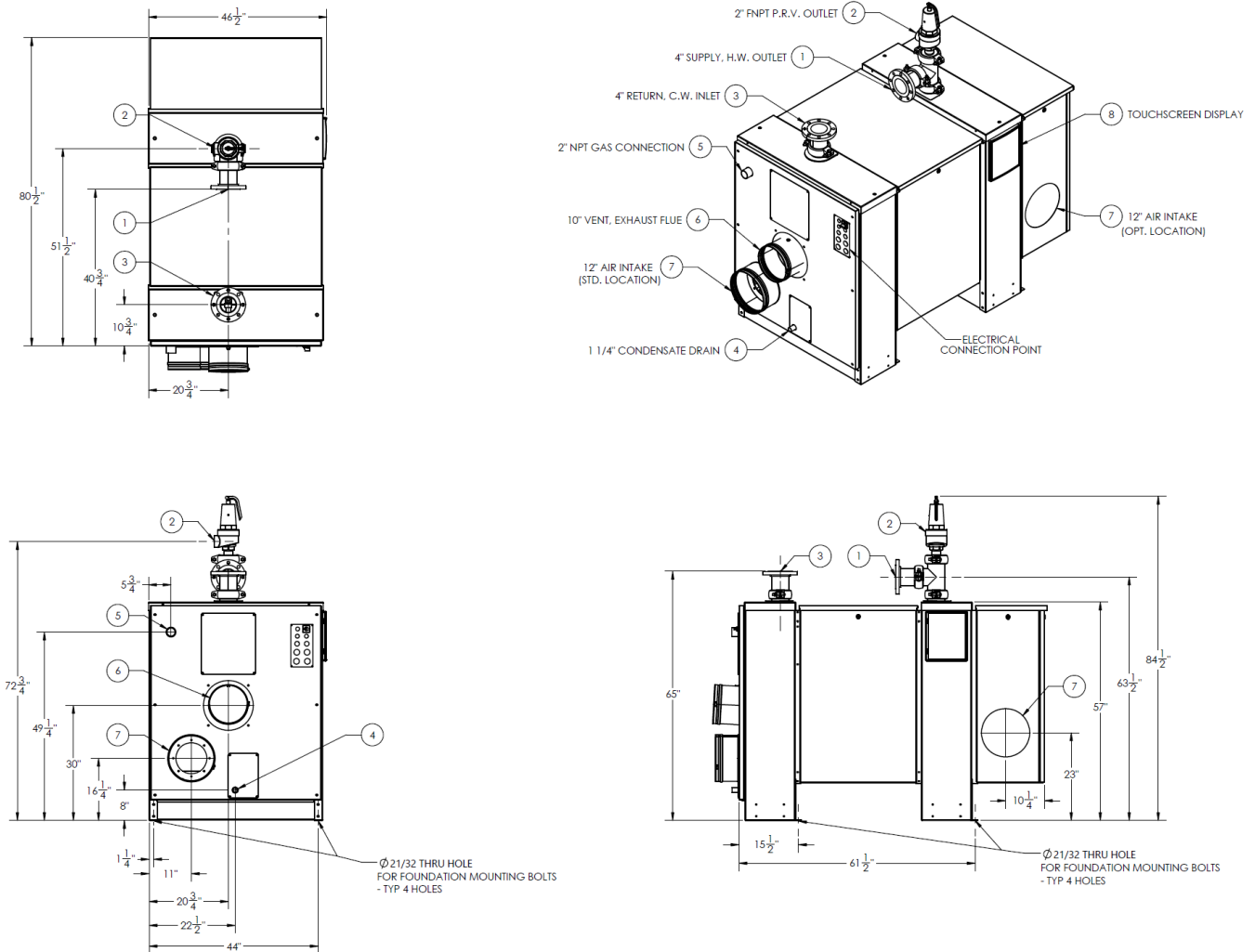
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2 DIMENSIONS

Product Dimensions – in.



Installation and Service Clearances (Minimum / Recommended) – in.

Top	Front	Left	Right	Back	Bottom
30/36	20/50	24/50	2/36	20/36	0/0





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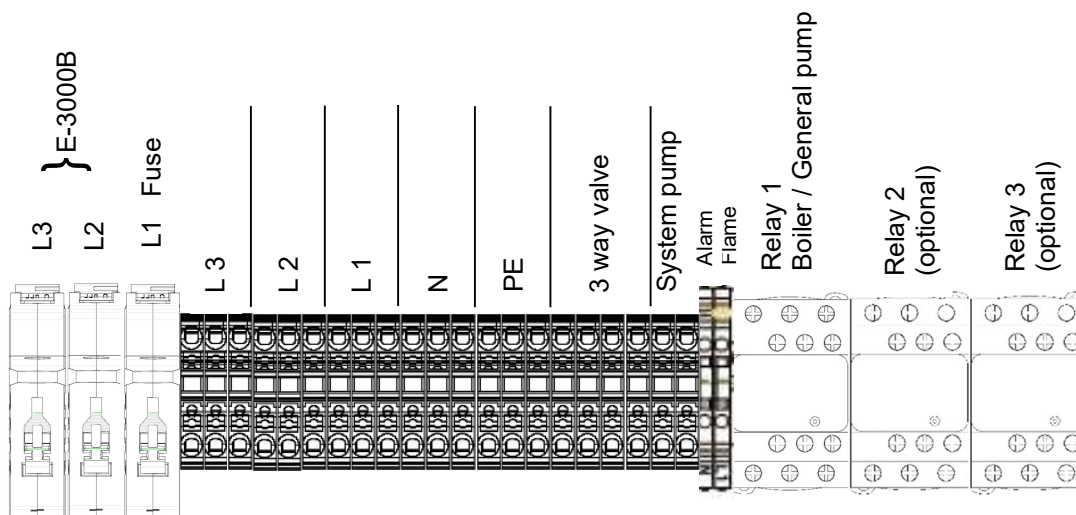
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3 ELECTRICAL

Mains Voltage Connections:

- ▶ 120VAC / 1 Phase / 60 Hz / 9.7A (Standard)
- ▶ 208VAC / 3 Phase / 60 Hz / ____A (Amperage dependent on selected system pump)
 - Applicable based on pump selection. Note: Pumps are field supplied.
 - No internal modifications needed.
 - Simply wire 208VAC / 3Phase / 60Hz from the main power supply to the unit and the unit itself is fully ready to transfer that to the pump connections.
- ▶ The boiler circulator (Heating or DHW) can be mounted to relay 1 in the electrical housing. When more circulators are needed (a system circulator, or a DHW circulator with a heating boiler) extra relays must be applied. These are available as an accessory.



Low Voltage Connections:

29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
						-	+	-	+	Gnd		Gnd	+	-	+			-	+	B	A	Gnd						
Safety switch 2		Safety switch 1		Flue Damper		LWCO Extern		AL-BUS managing boiler		Pump control PWM		Pump control 0-10V		0-10 Vdc		On/Off thermostat or modulating thermostat		AL-BUS depending boiler		Modbus			DHW sensor		System sensor		Outdoor sensor	
Interrupteur de sécurité 2		Interrupteur de sécurité 1		Clapet de cheminée		Eau basse coupure à l'extérieur		AL-BUS chaudière gérant		Commande de pompe PWM		Commande de pompe 0-10V		0-10 Vcc		Thermostat marche/ arrêt ou thermostat modulant		AL-BUS chaudière dépendant					Capteur ECS		Capteur de système		Capteur extérieur	

