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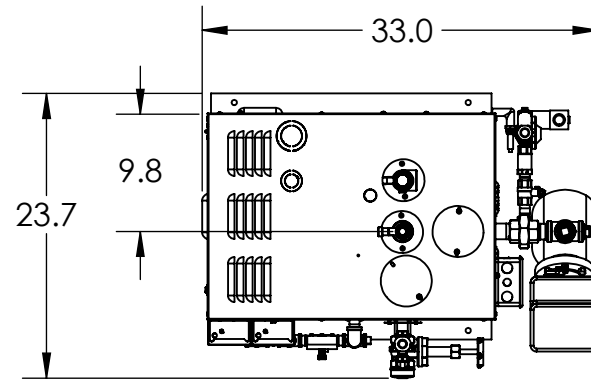
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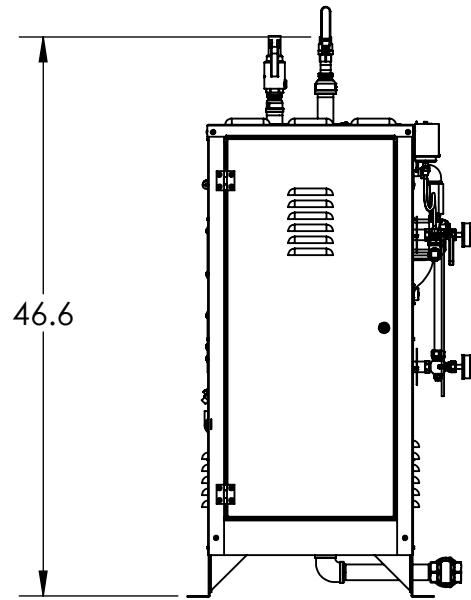
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Notes:

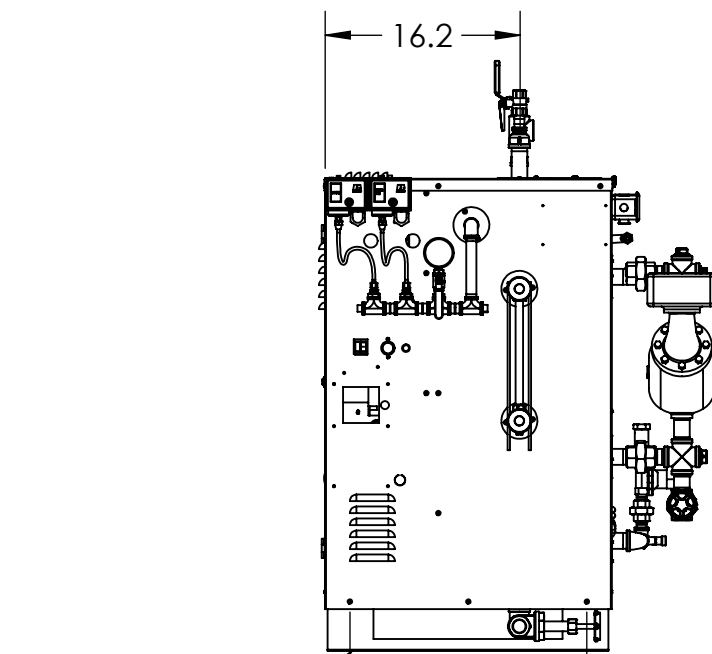
- 1. For ES72 208V/3 boilers, see Sheets 3 & 4 for dimensions and clearance requirements
- 2. Boiler is UL listed to standard 834
- 3. Materials of construction:
 - 1. Vessel and Piping: Carbon Steel
 - 2. Jacket: Stainless Steel
- 4. Pressure vessel built in accordance with ASME Section 1 and carries an "M" stamp
- 5. Completed boiler is built in accordance with ASME Section 1 and carries an "E" Stamp
- 6. Refer to Technical Data Sheet at www.sussmanboilers.com for more information



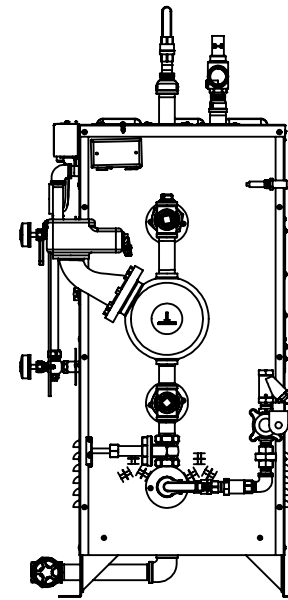
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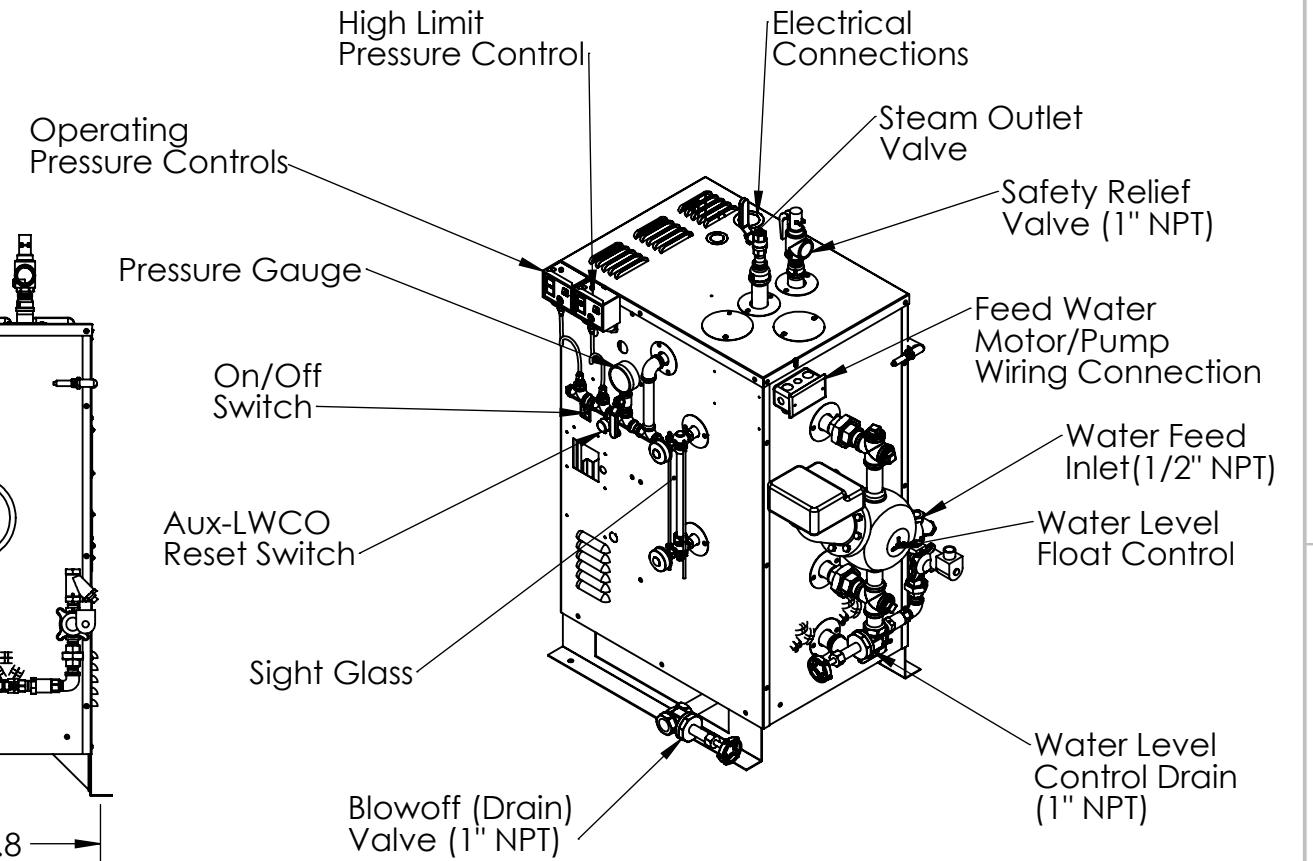
Left



Front



Right



DIMENSIONS ARE SHOWN IN INCHES (CENTIMETERS)
 TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED
 X.XX X.XXX X.XXXX ANGULAR FINISH
 ±.12 ±.031 ±.0156 ±1.0° 250

REMOVE AND DEBURR SHARP EDGES AND CORNERS
 ALL DIMENSIONS ARE AFTER FINISH OR PLATING
 REFERENCE DIMENSIONS ARE SHOWN IN PARENTHESES ()
 CRITICAL DIMENSIONS ARE SHOWN IN

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439 MAIN RD. TOWACO NJ 07082
 PHONE: (800) 221-1522 FAX: (718) 386-7809

TITLE
 ES24-ES72 ELECTRIC STEAM BOILER
 15 PSI, 50 PSI, 100 PSI

A		FOR RELEASE	JH	12/26/2023	THIRD ANGLE PROJECTION	DWG. SCALE	MATERIAL SPEC:		NAME	DATE	DWG#	REV
REV	ECN	REVISION DESCRIPTION	NAME	DATE		1:16		DRAWN BY	JH	12/26/2023	ES24-ES72	
								CHECKED BY			SHEET 1 OF 4	

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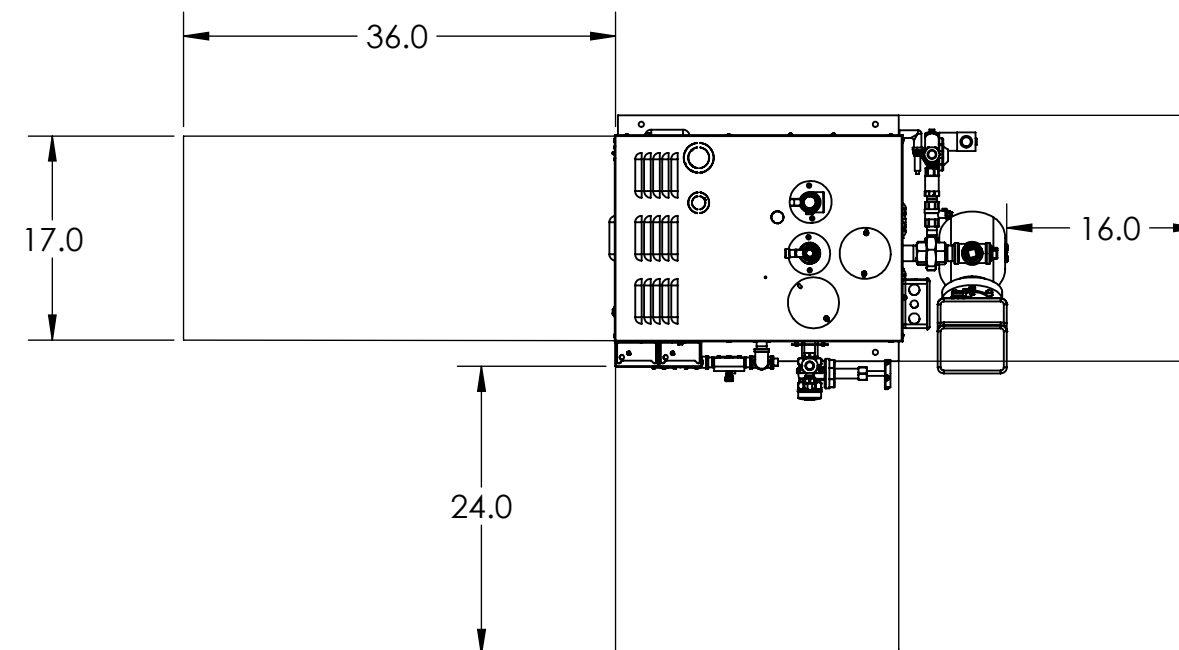
Notes:

- Minimum 1" clearance to all combustible materials
- Service clearances to be in conformance to NEC requirements

A		FOR RELEASE	JH	12/26/2023
REV	ECN	REVISION DESCRIPTION	NAME	DATE

Boiler	kW	Pressure	Elements	Voltage	Amp Draw	Control Voltage	Steam Flowrate (lbs/hr)	Feed Water Consumption (GPM)	Reccomended Min. Feed Water Rate (gpm)	
ES24	24	15 50 100	2 x 12kw	208	115(1P) 67	120	72.3	0.145	0.434	
				240	100(1P) 58	120				
				380	63(1P) 37	240				
				415	58(1P) 33	240				
				480	50(1P) 29	120				
				600	40(1P) 23	120				
ES30	30		15 50 100	1 x 12kw 1 x 18kw	208	144(1P) 83	120	90.4	0.181	0.542
					240	125(1P) 72	120			
					380	79(1P) 46	240			
					415	72(1P) 42	240			
					480	63(1P) 36	120			
					600	50(1P) 29	120			
ES36	36	15 50 100		2 x 18kw	208	173(1P) 100	120	108	0.216	0.648
					240	150(1P) 87	120			
					380	95(1P) 55	240			
					415	87(1P) 50	240			
					480	75(1P) 43	120			
					600	60(1P) 35	120			
ES48	48		15 50 100	1 x 12kw 2 x 18kw	208	231(1P) 133	120	145	0.290	0.870
					240	200(1P) 116	120			
					380	127(1P) 73	240			
					415	116(1P) 67	240			
					480	100(1P) 58	120			
					600	80(1P) 46	120			
ES60	60	15 50 100		2 x 12kw 2 x 18kw	208	167	120	181	0.362	1.086
					240	145	120			
					380	91	240			
					415	84	240			
					480	72	120			
					600	58	120			
ES72	72		15 50 100	4 x 18kw	*208	*200	120	217	0.434	1.302
					240	173	120			
					380	109	240			
					415	100	240			
					480	87	120			
					600	69	120			

Service Clearance Requirements



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±.12 ±.031 ±.0156 ±1.0° 250

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THIRD ANGLE PROJECTION



DWG. SCALE

1:16

MATERIAL SPEC:

TITLE
ES24-ES72 ELECTRIC STEAM BOILER
15 PSI, 50 PSI, 100 PSI

DRAWN BY

JH

DATE

12/26/2023

DWG#

ES24-ES72

SHEET 2 OF 4

REV

* See Sheets 3&4 for ES72XXXB3
for ES72, 208V, 3ph boilers

Boiler	Total Volume (gal)	Operating Volume (gal)	Dry Weight (LBS.)	Wet Weight (LBS.)	Shipping Weight (LBS.)	Steam Outlet Size (NPT)	Water Feed Inlet Size (NPT)	Drain Outlet Size (NPT)	Safety Valve Outlet Size (NPT)
ES24-ES36	14.3	8.96	263	338	310	1/2"	1/2"	1"	1"
ES48-ES72						3/4" (15, 50) 1/2" (100)			

Note: All weights do not include options. See option drawings for additional weights

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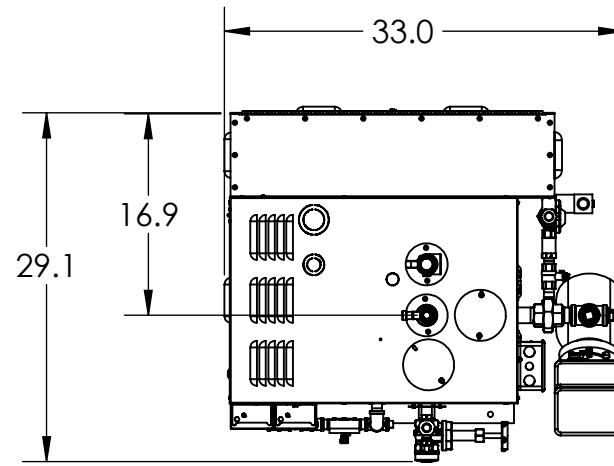
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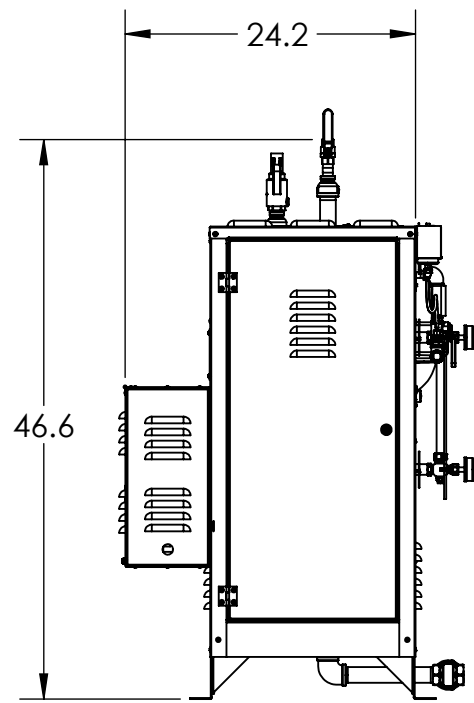
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Notes:

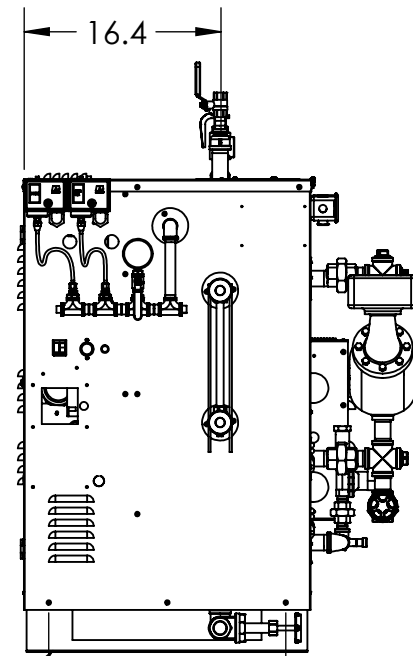
- 1. For ES72 208V/3 boilers only
- 2. Boiler is UL listed to standard 834
- 3. Materials of construction:
 - 1. Vessel and Piping: Carbon Steel
 - 2. Jacket: Stainless Steel
- 4. Pressure vessel built in accordance with ASME Section 1 and carries an "M" stamp
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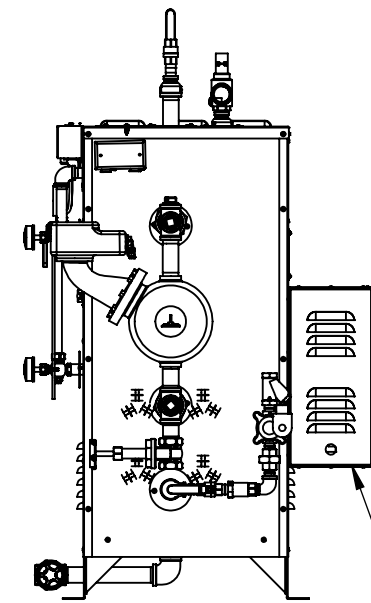
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Left

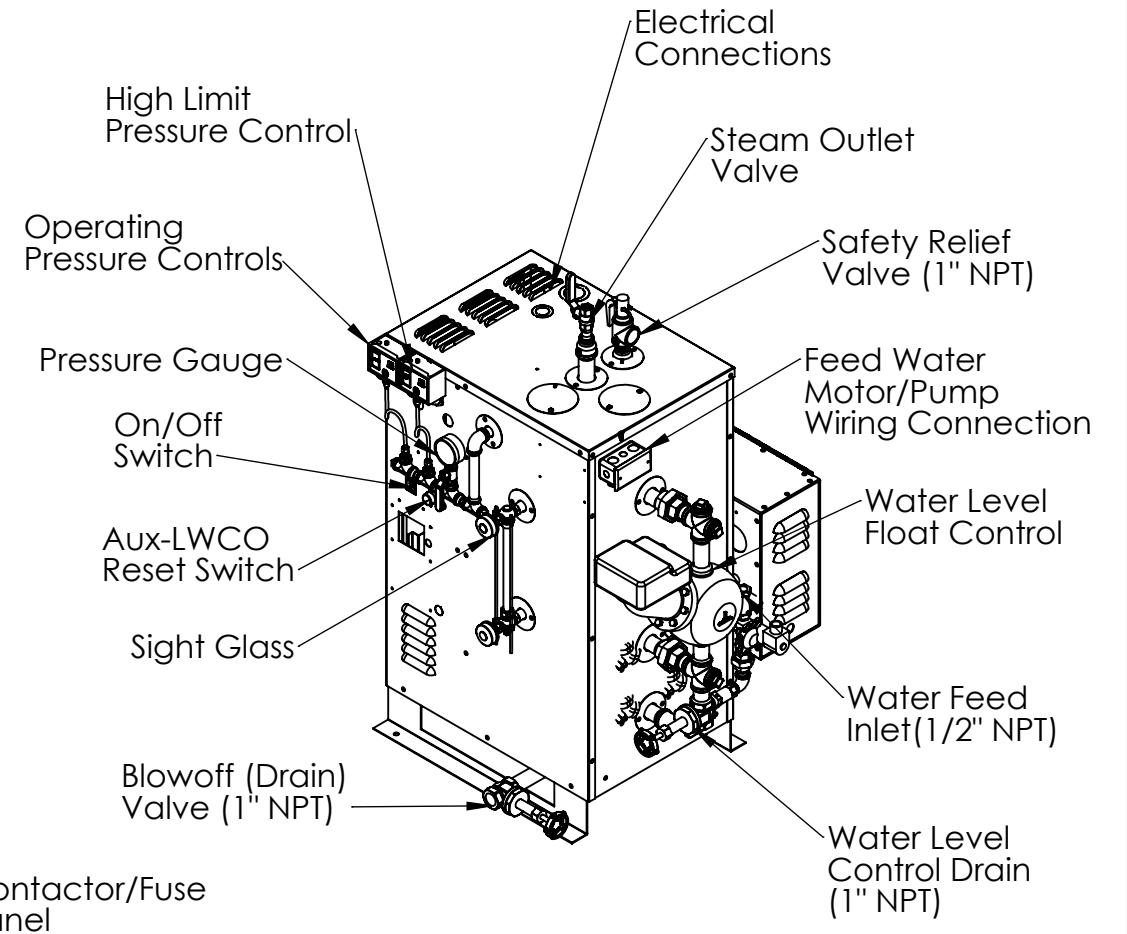


Front



Right

Mounting Holes:
4 x Ø.437"



High Limit Pressure Control

Electrical Connections

Steam Outlet Valve

Operating Pressure Controls

Safety Relief Valve (1" NPT)

Pressure Gauge

Feed Water Motor/Pump Wiring Connection

On/Off Switch

Water Level Float Control

Aux-LWCO Reset Switch

Sight Glass

Water Feed Inlet (1/2" NPT)

Blowoff (Drain) Valve (1" NPT)

Water Level Control Drain (1" NPT)

Contactor/Fuse Panel

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REV	ECN	REVISION DESCRIPTION	NAME	DATE		1:16		DRAWN BY	JH	12/26/2023	ES72XXB3	
								CHECKED BY			SHEET 3 OF 4	

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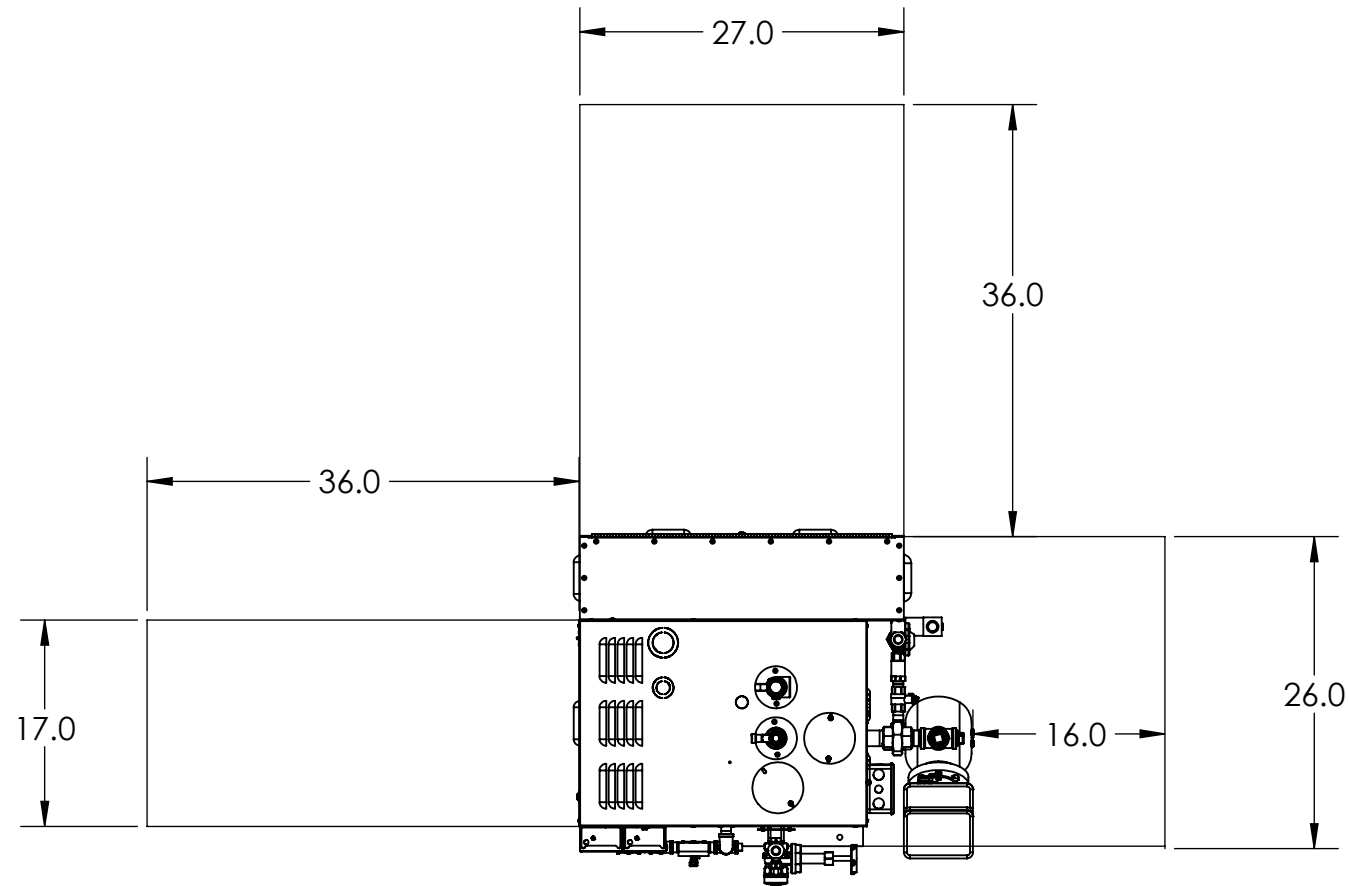
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Notes:

1. Minimum 1" clearance to all combustible materials
2. Service clearances to be in conformance to NEC requirements

Service Clearance Requirements



Boiler	kW	Pressure	Elements	Voltage	Amp Draw	Control Voltage	Steam Flowrate (lbs/hr)	Feed Water Consumption (GPM)	Reccomeded Min. Feed Water Rate (gpm)
ES72	72	15 50 100	4 x 18kw	208	200	120	217	0.434	1.302
Boiler	Total Volume (gal)	Operating Volume (gal)	Dry Weight (LBS.)	Wet Weight (LBS.)	Shipping Weight (LBS.)	Steam Outlet Size (NPT)	Water Feed Inlet Size (NPT)	Drain Outlet Size (NPT)	Safety Valve Outlet Size (NPT)
ES72	14.3	8.96	263	338	310	3/4" (15, 50) 1/2" (100)	1/2"	1"	1"
Note: All weights do not include options. See option drawings for additional weights									

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REV	ECN	REVISION DESCRIPTION	NAME	DATE		1:16		DRAWN BY	JH	12/26/2023	ES72XXXB3	
								CHECKED BY			SHEET 4 OF 4	

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