

4

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NOTES:

1. MATERIALS OF CONSTRUCTION

1. VESSEL AND PIPING: CARBON STEEL AND CAST IRON

2. JACKET: STAINLESS STEEL AND PAINTED STEEL

2. PRESSURE VESSEL BUILT IN ACCORDANCE WITH ASME SECTION IV AND CARRIES AN "H" STAMP

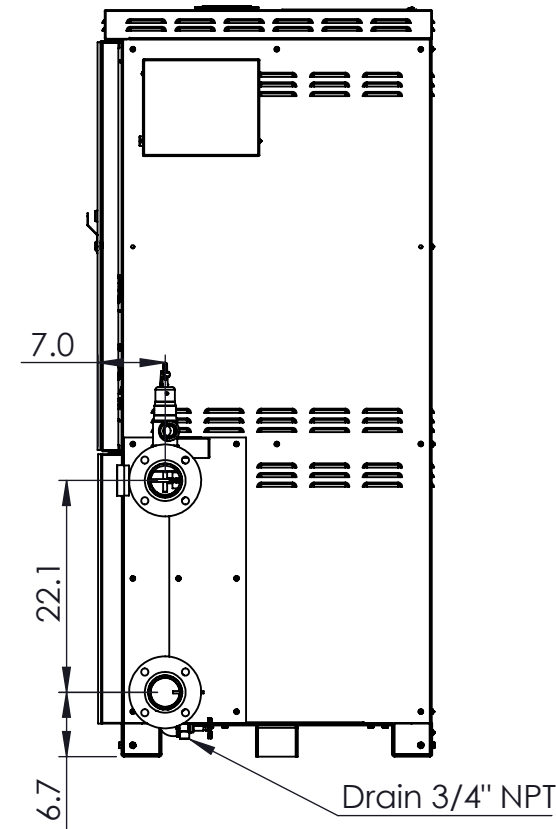
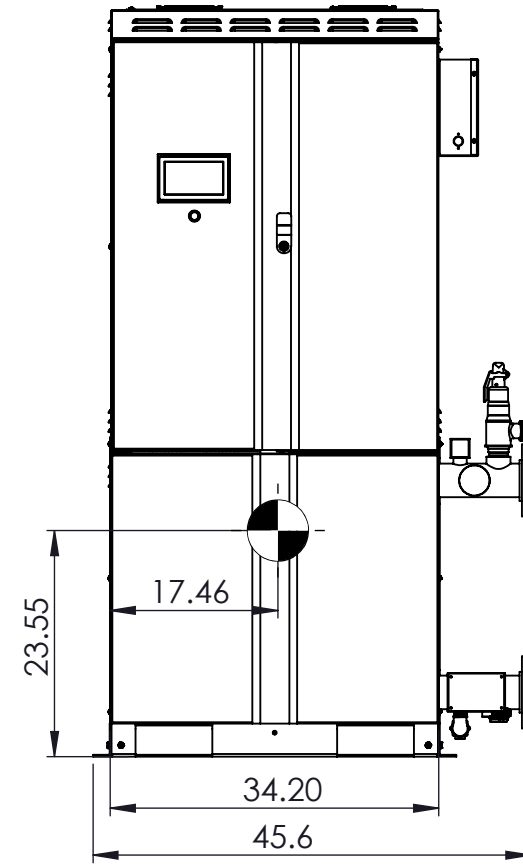
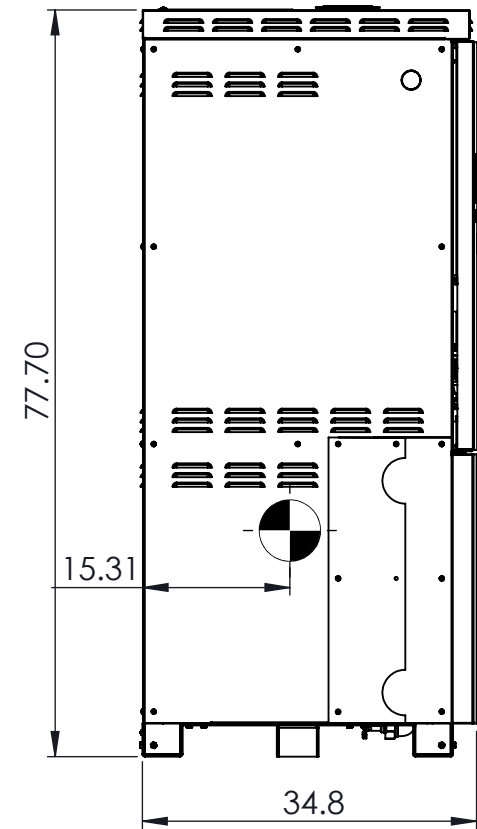
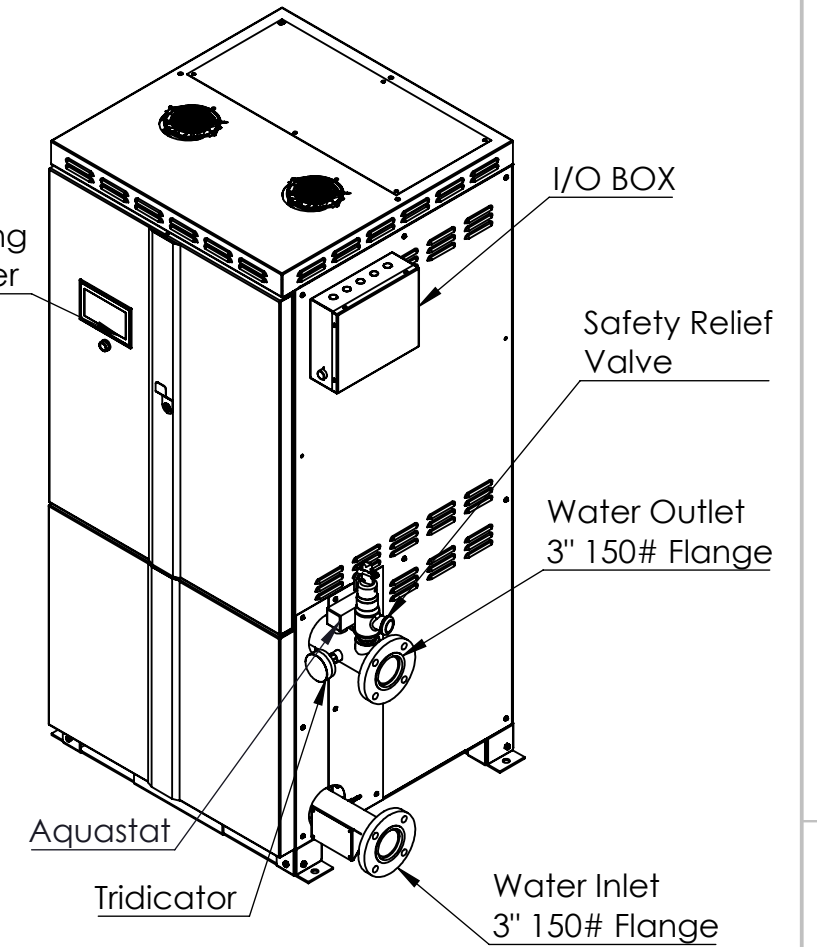
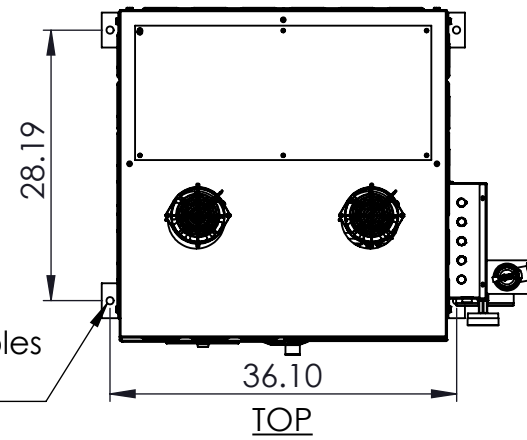
3. MAXIMUM ALLOWABLE WORKING PRESSURE UP TO 150PSI

4. BOILER IS UL LISTED TO STANDARD 834

5. FOR EWx270- EWx600 ALL VOLTAGES EXCEPT EWx510-EWx600 208V/3 & 240V/3

6. BACNET IP AND MSTP, MODBUS RS485, AND 4-20 mA REMOTE SET POINT STANDARD

7. REFER TO THE INSTALLATION AND OPERATION MANUAL FOR MORE INFORMATION



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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THIRD ANGLE PROJECTION 	DWG. SCALE 1:20	MATERIAL SPEC:
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439 MAIN RD. TOWACO NJ 07082
PHONE: (800) 221-1522 FAX: (718) 386-7809

TITLE EWx270-EWx600 ELECTRIC WATER BOILERS
* EXCLUDES EWx510-EWx600 208V, 240V

NAME	DATE	DWG#	REV
JH	5/4/2026	EWx270-EWx600	B
CHECKED BY		SHEET 1 OF 4	

4

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1

B

B

A

A

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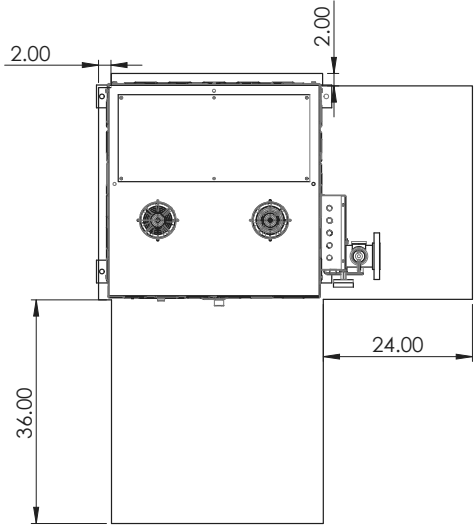
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1

NOTES:

- 1. SERVICE CLEARANCES TO BE IN CONFORMANCE TO NEC REQUIREMENTS. ALLOW A MINIMUM OF 36" CLEARANCE IN FRONT OF DOORS FOR SERVICING OF HEATING ELEMENTS. RECOMMENDED 24" CLEARANCE FOR OTHER SIDES OF BOILER FOR SERVICING.
- 2. MINIMUM 1" CLEARANCE TO ALL COMBUSTIBLE MATERIALS
- 3. BOILER WEIGHTS, FLOW RATES AND OTHER INFORMATION ON PAGE 3

Service Clearance Requirements



DIMENSIONS ARE SHOWN IN INCHES (CENTIMETERS)
 TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED
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 ±.12 ±.031 ±.0156 ±1.0° 250

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THIRD ANGLE PROJECTION	DWG. SCALE	MATERIAL SPEC:
	1:20	

SUSSMAN
ELECTRIC BOILERS

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

TITLE		EWx270-EWx600 ELECTRIC WATER BOILERS	
		* EXCLUDES EWx510-EWx600 208V, 240V	
	NAME	DATE	DWG#
DRAWN BY	JH	10/23/24	EWx270-EWx600
CHECKED BY			SHEET 2 OF 4
			REV B

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Notes

- See Page 5 for EWx510-EWx600 208V/3 & 240V/3 Amp Draw
- Boiler Weights are 480V Model. Contact factory for other voltage weights

Boiler	kW	Elements	Voltage	Amp Draw	MBH	Min Flow (GPM)	Max Flow (GPM)
EWx270	270	9 x 30kW	208	751	902.8	12	123
			240	651			
			480	326			
			600	261			
EWx300	300	10x 30kW	208	834	1003	12	123
			240	723			
			480	362			
			600	290			
EWx330	330	11x 30kW	208	918	1103	12	123
			240	795			
			480	398			
			600	318			
EWx360	360	12x 30kW	208	1001	1204	12	123
			240	868			
			480	434			
			600	347			
EWx390	390	13x 30kW	208	1084	1304	16	164
			240	940			
			480	470			
			600	376			
EWx420	420	14x 30kW	208	1168	1404	16	164
			240	1012			
			480	506			
			600	405			
EWx450	450	15x 30kW	208	1251	1505	16	164
			240	1084			
			480	542			
			600	434			
EWx480	480	16x 30kW	208	1334	1605	16	164
			240	1157			
			480	579			
			600	463			
EWx510	510	17x 30kW	480	615	1705	20	205
			600	492			
EWx540	540	18x 30kW	480	651	1806	20	205
			600	521			
EWx570	570	19x 30kW	480	687	1906	20	205
			600	550			
EWx600	600	20x 30kW	480	723	2006	20	205
			600	579			

Boiler	Dry Weight (LBS)	Wet Weight (LBS)	Total Volume (Gal)	Boiler Headers Size (150# Flange)	Drain Size (NPT)	Safety Valve Outlet Size (NPT)
EWx270	1389	1568	20.5	3"	0.75"	1.25" (50,60,75 PSI) 1" (100 PSI) 0.75" (125,150 PSI)
EWx300	1404	1583				
EWx330	1419	1598				
EWx360	1434	1613				
EWx390	1687	1913	26.1	3"	0.75"	1.25" (50,60,75 PSI) 1" (100 PSI) 0.75" (125,150 PSI)
EWx420	1702	1928				
EWx450	1717	1943				
EWx480	1737	1963				
EWx510	1990	2264	31.8	3"	0.75"	1.25" (50,60,75 PSI) 1" (100 PSI) 0.75" (125,150 PSI)
EWx540	2010	2284				
EWx570	2025	2299				
EWx600	2040	2314				

DIMENSIONS ARE SHOWN IN INCHES (CENTIMETERS)
TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED
X.XX X.XXX X.XXXX ANGULAR FINISH
 $\pm .12$ $\pm .031$ $\pm .0156$ $\pm 1.0^\circ$ 250
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THIRD ANGLE PROJECTION



DWG. SCALE

1:20

MATERIAL SPEC:



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

TITLE EWx270-EWx600 ELECTRIC WATER BOILERS

* EXCLUDES EWx510-EWx600 208V, 240V

DRAWN BY

JH

DATE

5/4/2026

DWG#

EWx270-EWx600

REV

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CHECKED BY

SHEET 3 OF 4

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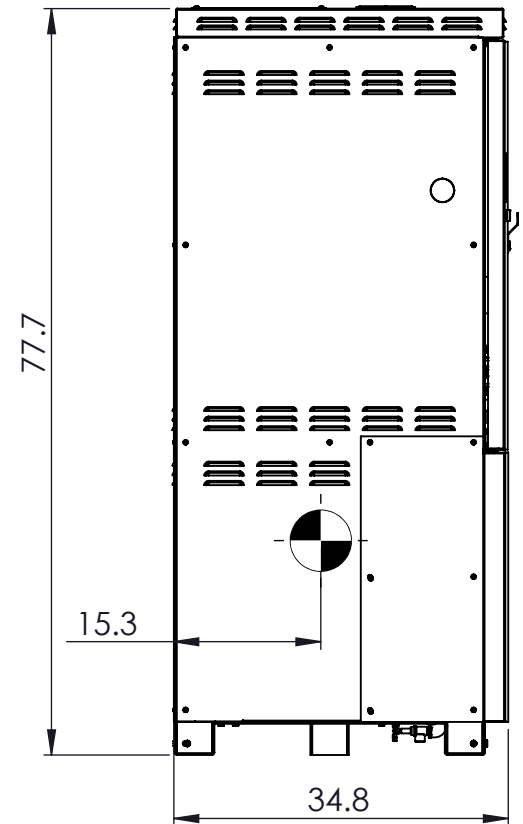
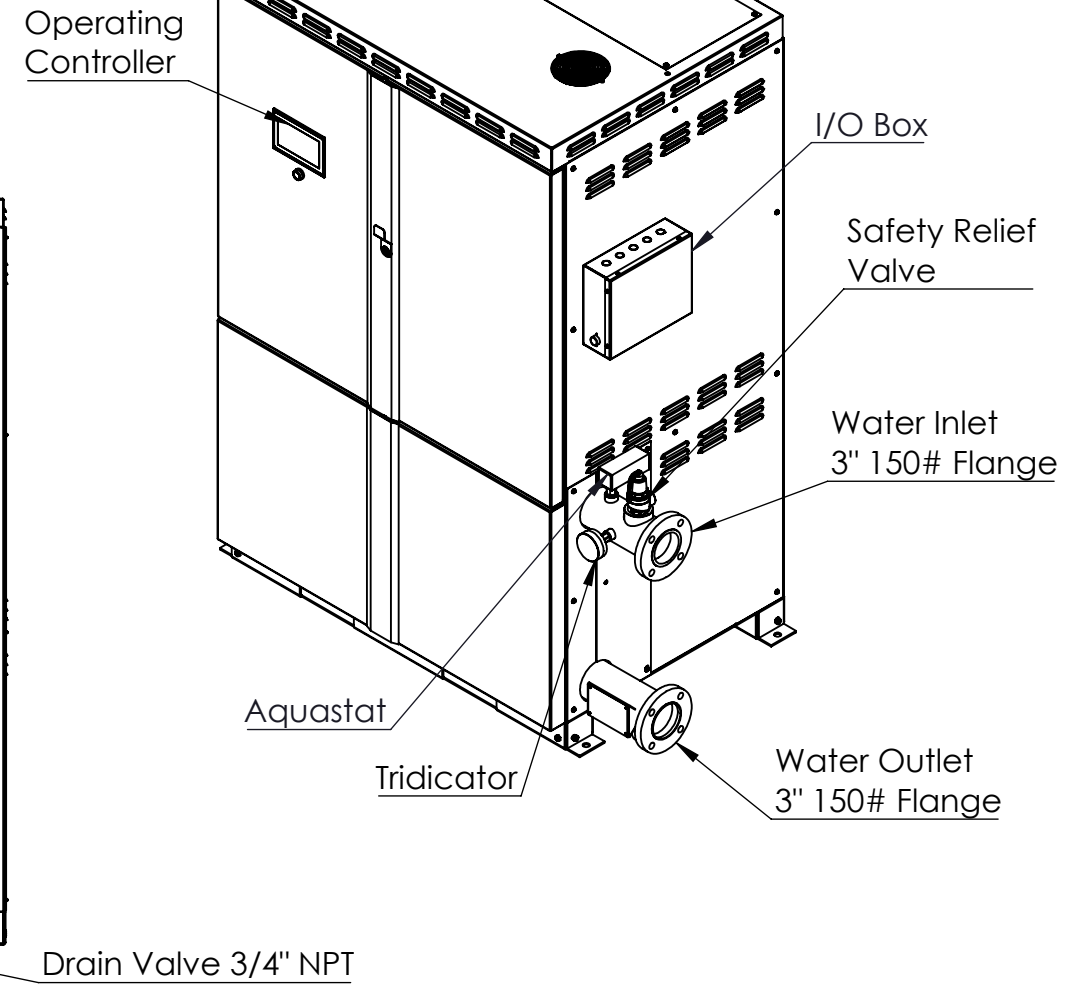
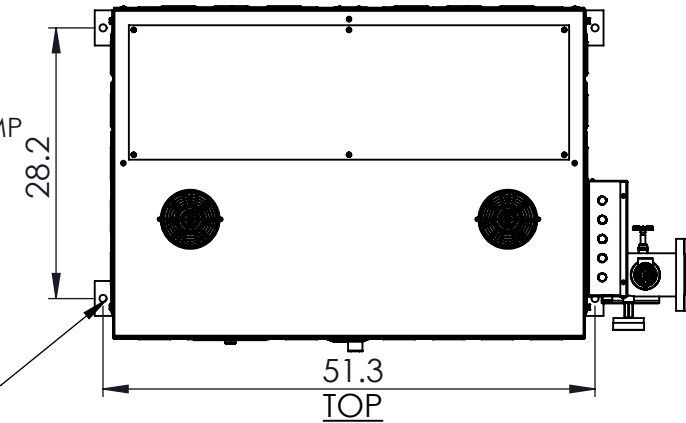
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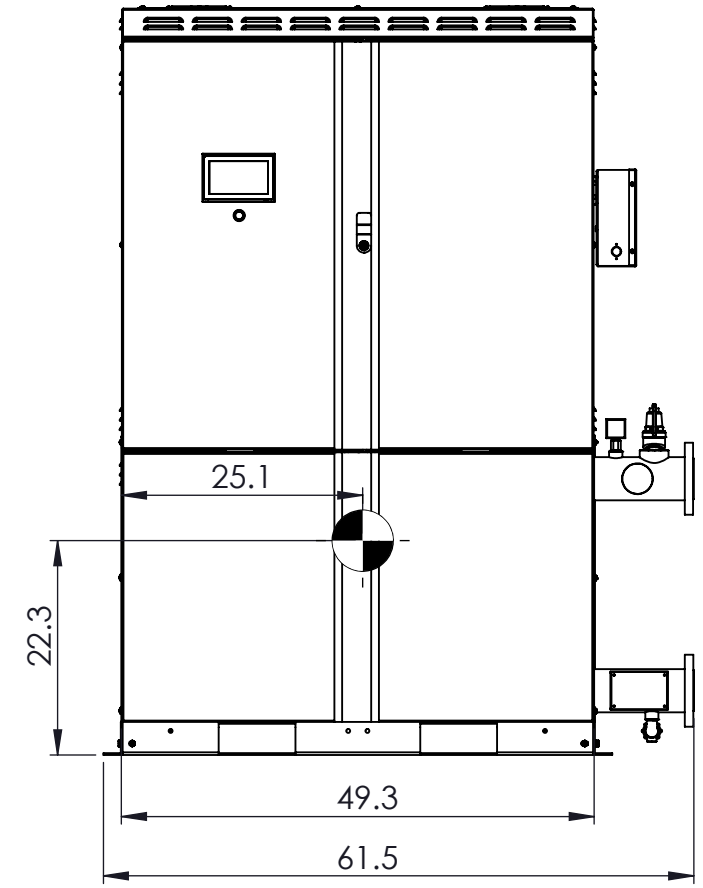
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2. PRESSURE VESSEL BUILT IN ACCORDANCE WITH ASME SECTION IV AND CARRIES AN "H" STAMP
3. MAXIMUM ALLOWABLE WORKING PRESSURE UP TO 150PSI
4. BOILER IS UL LISTED TO STANDARD 834
5. FOR EWx510-EWx600 VOLTAGES 208V/3 & 240V/3
6. BACNET IP AND MSTP, MODBUS RS485, AND 4-20 mA REMOTE SET POINT STANDARD
7. REFER TO THE INSTALLATION AND OPERATION MANUAL FOR MORE INFORMATION

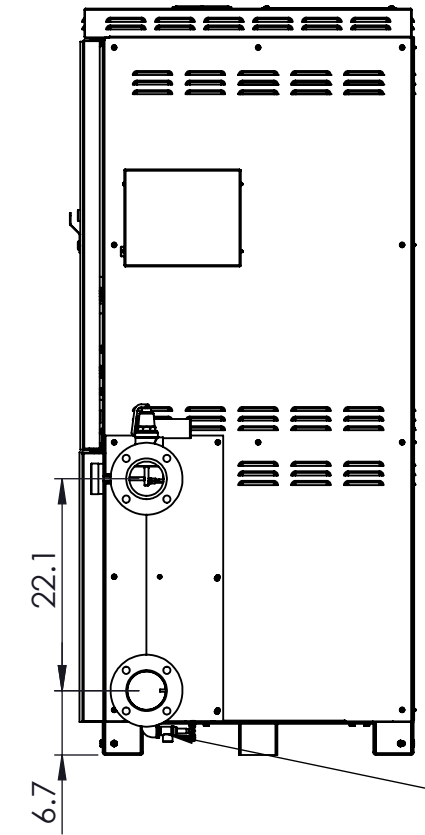
Mounting Holes
4 Ø .75"



LEFT



FRONT



RIGHT

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

TITLE EWx510-EWx600 ELECTRIC WATER BOILERS 208V & 240V

THIRD ANGLE PROJECTION 	DWG. SCALE 1:20	MATERIAL SPEC:	NAME JH	DATE 5/4/2026	DWG# EWx510-EWx600 208V&240V SHEET 4 OF 5	REV A
			DRAWN BY	CHECKED BY		

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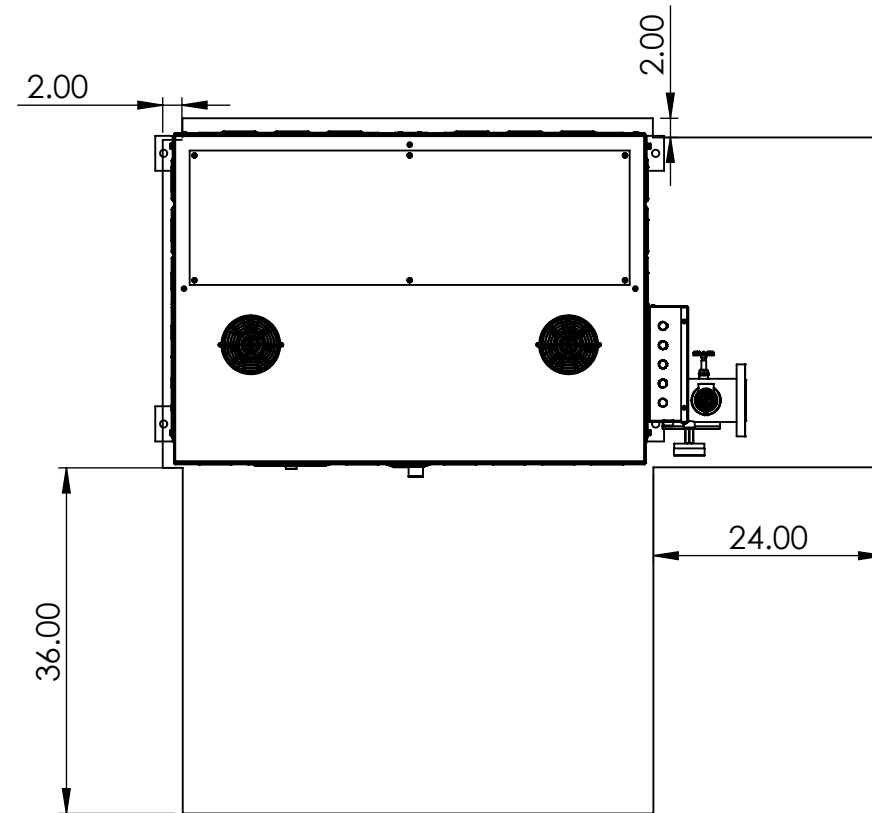
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Service Clearance Requirements

Boiler	Dry Weight (LBS)	Wet Weight (LBS)	Total Volume (Gal)	Boiler Headers Size (150# Flange)	Drain Size (NPT)	Safety Valve Outlet Size (NPT)
EWx510	2390	2664				1.25" (50,60,75 PSI)
EWx540	2410	2684	31.8	3"	0.75"	1" (100 PSI)
EWx570	2425	2699				0.75" (125,150 PSI)
EWx600	2440	2714				

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THIRD ANGLE PROJECTION



DWG. SCALE

1:20

MATERIAL SPEC:



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TITLE EWx510-EWx600 ELECTRIC WATER
BOILERS 208V & 240V

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DATE

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DWG#
EWx510-EWx600
208V & 240V
SHEET 5 OF 5

REV

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