SUSSMAN ELECTRIC BOILERS

Technical Data Sheet

EWx SERIES: 30-1200kW

ELECTRIC HOT WATER BOILER

The Sussman EWx Series is a next-generation Electric Hot Water Boiler system, available in a large range of sizes. Our newly expanded product line ranges from 30 kW up to 1200 kW; offering a smart, sustainable, and high-efficiency heating solution for a broad spectrum of hydronic applications. The 30 kW to 240 kW model sizes retain the same innovative modular design and digital feed-forward control architecture as the larger units, but with an even more compact footprint — ideal for maximizing space in crowded utility rooms and facilitating easy retrofitting into modern hybrid or fully electric heating systems. All EWx models are engineered for easy installation and integration, featuring state-of-the-art connectivity (including standard BACnet and Modbus), a user-friendly interface, and proven technologies to ensure optimal efficiency and reliable, long-term operation. Designed to meet or exceed the swiftly evolving regulations and standards governing building electrification and decarbonization, the EWx is ideal for those customers who prioritize sustainability and energy efficiency in modern building designs.



FEATURES

- **Output Range:** 43 models from 30 kW to 1200 kW (102.4 to 4094 MBH)
- **Compact Design**: All models fit through a standard 36" doorway
- **Flexible Configurations**: Right and Left side units offered
- **Fully Packaged System:** Factory-assembled for simplified installation
- **Minimal Clearance Requirements:** 2" clearance on two sides; service access from one side only; no overhead service clearance required
- **Advanced Electronic PID Controls:** 7" touchscreen interface; BMS compatibility via BACnet and Modbus (IP and MSTP)
- **SSR (30-240kW)/SCR (270-1200) Power Control**: Almost infinite turndown; minimizes cycling and extends component life
- **Certifications and Compliance**
  UL 834; ASME Section IV; ASME CSD-1 compliant
- **Short-Circuit Current Rating (SCCR)**: 5 kA standard; optional 100 kA available
- **Maximum Operating Temperature**: 220°F
- **Maximum Design Pressure**: 160 psi
- **System Compatibility**: Suitable for water or glycol systems
- **Warranty**: 10 years
- **Manufacturing**: Designed and assembled in the USA

APPLICATIONS

- Ideal for new or retrofit installations.
- Suitable for both single and multiple unit installations.
- Supports a variety of applications including:
  - Apartment Complexes
  - Prisons / Correctional Facilities
  - Hospitals/Nursing homes/Medical Centers
  - Hotels / Entertainment Facilities
  - Schools/Colleges/Universities/Dormitories
  - Commercial laundries
  - Government and Office buildings
  - Industrial applications

SPECIFICATIONS

EWx Models	KW	MBH	Qty 30kW Elements	Amperage				Flange/ Inlet/ Outlet Connections	Footprint Dimensions			Operating Weight 480, 600V** (lbs.)	Shipping Weight 480, 600V** (lbs.)
				208/3***	240/3***	480/3	600/3		Width (in.)	Depth (in.)	Height (in.)		
EWx30	30	102.4	1	83 (3P) 144 (1P)	72 (3P) 125 (1P)	36	29	1.5 in. NPT	30.4	16.6	43.4	473	485
EWx45	45	153.5	1-30, 1-15	125	108	54	43	1.5 in. NPT	30.4	16.6	43.4	485	497
EWx60	60	204.7	2	167	144	72	58	1.5 in. NPT	30.4	16.6	43.4	485	497
EWx75	75	255.9	2-30, 1-15	208	181	90	72	1.5 in. NPT	30.4	16.6	43.4	496	508
EWx90	90	307.1	3	250	217	108	87	1.5 in. NPT	30.4	16.6	43.4	496	508
EWx105	105	358.3	3-30, 1-15	292	253	126	101	1.5 in. NPT	30.4	16.6	43.4	508	520
EWx120	120	409.4	4	333	289	145	116	1.5 in. NPT	30.4	16.6	43.4	508	520
EWx150	150	511.8	5	417	361	181	145	2 in. NPT	34.4	22.1	77.7	1016	980
EWx180	180	614.2	6	500	434	217	173	2 in. NPT	34.4	22.1	77.7	1034	999
EWx210	210	716.5	7	584	506	253	202	2 in. NPT	34.4	22.1	77.7	1048	1013
EWx240	240	818.9	8	667	578	289	231	2 in. NPT	34.4	22.1	77.7	1060	1024
EWx270	270	921.2	9	751	651	326	261	3 in.	34.4	34.5	77.7	1568	1589
EWx300	300	1024	10	834	723	362	290	3 in.	34.4	34.5	77.7	1583	1604
EWx330	330	1126	11	918	795	398	318	3 in.	34.4	34.5	77.7	1598	1619
EWx360	360	1228	12	1001	868	434	347	3 in.	34.4	34.5	77.7	1613	1634
EWx390	390	1331	13	1084	940	470	376	3 in.	34.4	34.5	77.7	1913	1887
EWx420	420	1433	14	1168	1012	506	405	3 in.	34.4	34.5	77.7	1928	1902
EWx450	450	1535	15	1251	1084	542	434	3 in.	34.4	34.5	77.7	1943	1917
EWx480	480	1638	16	1334	1157	579	463	3 in.	34.4	34.5	77.7	1963	1937
EWx510	510	1740	17	1418	1229	615	492	3 in.	34.4*	34.5	77.7	2264	2190
EWx540	540	1842	18	1501	1301	651	521	3 in.	34.4*	34.5	77.7	2284	2210
EWx570	570	1945	19	1585	1373	687	550	3 in.	34.4*	34.5	77.7	2299	2225
EWx600	600	2047	20	1668	1446	723	579	3 in.	34.4*	34.5	77.7	2314	2240

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				208/3***	240/3***	480/3	600/3		Width (in.)	Depth (in.)	Height (in.)		
EWx630	630	2150	21	-	-	759	607	4 in.	49.4	34.5	77.7	2883	2813
EWx660	660	2252	22	-	-	795	636	4 in.	49.4	34.5	77.7	2898	2828
EWx690	690	2354	23	-	-	831	665	4 in.	49.4	34.5	77.7	2913	2843
EWx720	720	2457	24	-	-	868	694	4 in.	49.4	34.5	77.7	2928	2858
EWx750	750	2559	25	-	-	904	723	4 in.	49.4	34.5	77.7	3228	3111
EWx780	780	2661	26	-	-	940	752	4 in.	49.4	34.5	77.7	3243	3126
EWx810	810	2764	27	-	-	976	781	4 in.	49.4	34.5	77.7	3258	3141
EWx840	840	2866	28	-	-	1012	810	4 in.	49.4	34.5	77.7	3278	3161
EWx870	870	2968	29	-	-	1048	839	4 in.	49.4	34.5	77.7	3578	3414
EWx900	900	3071	30	-	-	1084	868	4 in.	49.4	34.5	77.7	3598	3434
EWx930	930	3173	31	-	-	1120	896	4 in.	49.4	34.5	77.7	3613	3449
EWx960	960	3276	32	-	-	1157	925	4 in.	49.4	34.5	77.7	3628	3464
EWx990	990	3378	33	-	-	1193	954	4 in.	62.4	34.5	77.7	4083	3942
EWx1020	1020	3480	34	-	-	1229	983	4 in.	62.4	34.5	77.7	4103	3962
EWx1050	1050	3583	35	-	-	1265	1012	4 in.	62.4	34.5	77.7	4123	3982
EWx1080	1080	3685	36	-	-	1301	1041	4 in.	62.4	34.5	77.7	4143	4002
EWx1110	1110	3787	37	-	-	1337	1070	4 in.	62.4	34.5	77.7	4443	4255
EWx1140	1140	3890	38	-	-	1373	1099	4 in.	62.4	34.5	77.7	4463	4275
EWx1170	1170	3992	39	-	-	1409	1128	4 in.	62.4	34.5	77.7	4478	4290
EWx1200	1200	4094	40	-	-	1446	1157	4 in.	62.4	34.5	77.7	4493	4305

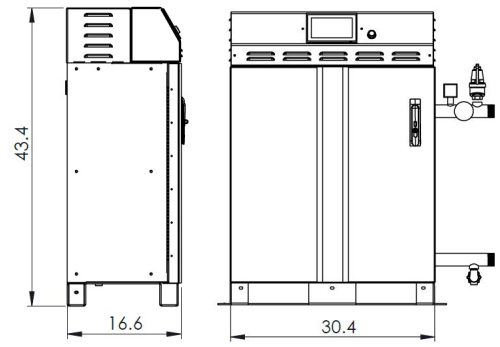
*Note: 208/3 and 240/3 models are 49.4 in. wide.

** Note: Contact factory for Shipping and Operating weights of all 208/3 and 240/3 models.

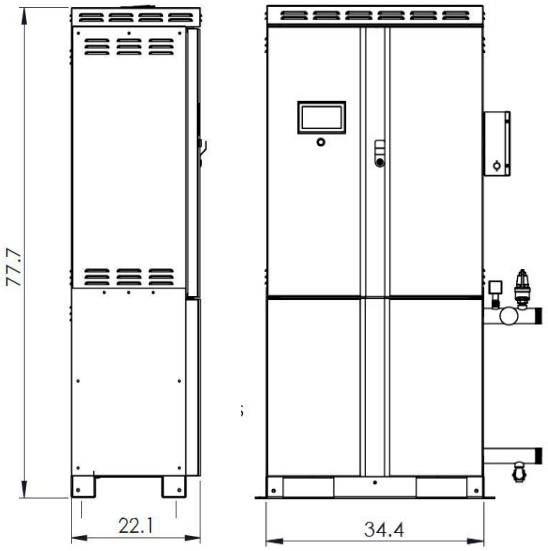
*** 208/1 and 240/1 single phase available up to 30kW.

MODEL FOOTPRINT DIMENSIONS

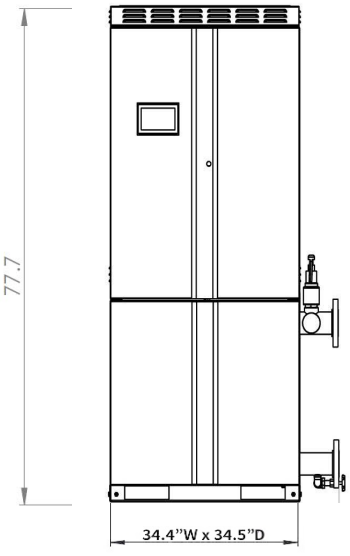
EWx30-EWx120



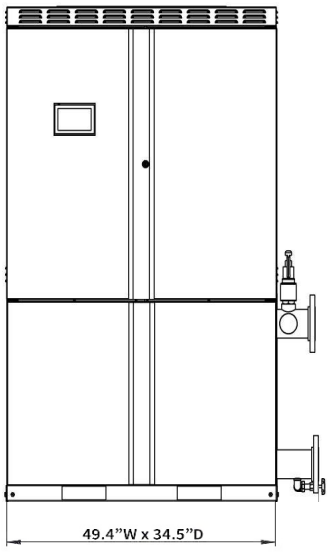
EWx150-EWx240



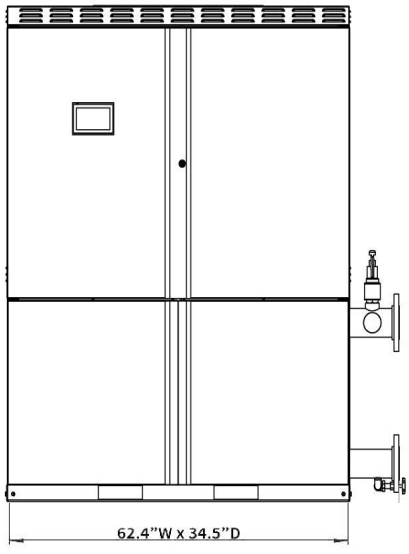
EWx270 - EWx600



EWx630 - EWx960**



EWx990 - EWx1200



**Note: 510kW-600kW for 208/3 and 240/3 Amp. models are 49.4" wide.

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