

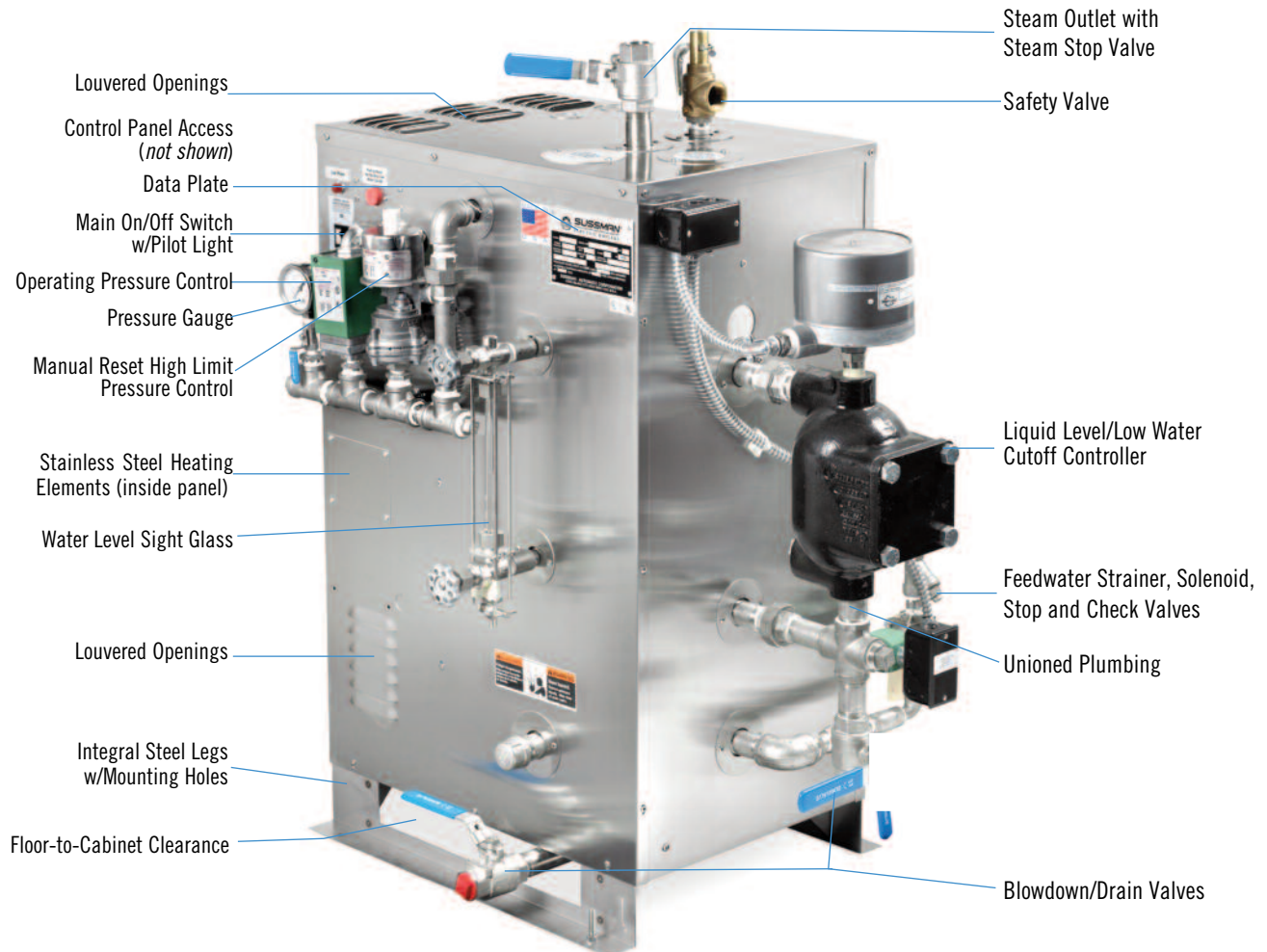
SSB SERIES

ELECTRIC STEAM BOILERS

- *Lbs/Hr Sat. Steam:* 36 to 543
- *KW Rating:* 12 to 180
- *ASME Rating* 100 PSIG
- *Operating PSIG Range* 0-80 PSIG Max

NOTE: Deionized water with a minimum of 1 meg ohm-cm specific resistivity must be used for compliance with ASME Section I and for proper & safe boiler operation.

All wetted metal parts are 316 stainless steel / Passivation-Pressure Vessel per ASTM A-967-96



Typical boiler arrangement



Built to ASME Code



Stainless Steel Electric Boilers

Sussman SSB Boilers minimize contaminants because all-wetted metal parts are Stainless Steel. Whenever copper, iron or other materials cannot be tolerated in the steam and/or process, a Sussman SSB Stainless Steel Boiler is the product of choice for clean steam.

APPLICATIONS

- Pharmaceutical
- Chemical Process
- Sterilization
- Food Processing
- Cosmetics
- Autoclaves and other clean steam

STANDARD FEATURES

- Series 316L stainless steel pressure vessel.
- Passivation of pressure vessel.
- Built to ASME Boiler and Pressure Vessel Codes Sect. I UL and cUL Listed. National Board registered.
- Tested to rigid Q.C. Inspection Procedures.
- LOW WATER CUT-OFF/LEVEL CONTROL - Float type automatically maintains proper water level for safe operation and shuts off the boiler when the water supply falls below a safe level. Auxiliary low-water cut-off supplied in addition to primary control as standard.
- WATER LEVEL SIGHT GLASS - Permits visual observation of water level while unit is in operation.
- MAIN ON-OFF SWITCH - Permits manual operation of boiler control circuit.
- STEAM STOP-VALVE - Ball valve; quick closing.
- PILOT LIGHT - Indicates boiler on/off condition.
- INTEGRAL ELECTRICAL CONTROL - Magnetic contactors for energizing boiler elements are integrally mounted in the control unit.
- BLOWDOWN/DRAIN VALVES - Permits easy blow-down and draining.
- LONG LIFE HEATING ELEMENTS - Industrial Grade heavy duty 0.420 inch diameter sheath heating elements with one piece resistance welded terminations for added life and security.
- OPERATING PRESSURE CONTROL - Automatically maintains pre-set operating pressure within boiler.
- RUGGED INDUSTRIAL CONSTRUCTION
- AUXILIARY LOW WATER CUTOFF
- PASSIVATION PER ASTM A-967-96
- NEMA 1 Louvered enclosure standard
- SCCR - 5kA standard with optional 100kA

OPTIONS & ACCESSORIES

- HIGH PRESSURE WATER FEED SYSTEM - High pressure feed water pump to ensure adequate water pressure, powered directly from the boiler.
- AUTOMATIC BLOWDOWN SYSTEM - Uses a stainless steel, motor-driven, straight-through, self cleaning ball valve for boiler water blowdown.
- BLOWDOWN SEPARATOR & COOLER - Reduces temperature and pressure to insure a safe discharge of water and sludge.
- CONTROL VOLTAGE TRANSFORMER - Allows for single source power supply; eliminates need for separate control voltage connection at boiler.
- MULTI-STAGE LOAD PROGRESSIVE SEQUENCERS - Designed to apply power progressively to larger KW boilers, energizing and de-energizing heating elements through power contactors.
- BACnet COMMUNICATIONS - Allows controller to communicate with external Building Automation Systems (BAS).
- Multiple Control & Alarm Options

CODE REQUIREMENTS

- Built to ASME Section I for max 100 PSIG. Vessel National Board Registered. Code E certified
- Electrical construction conforms to NEC requirements.
- UL and cUL Listed.

SAFETY FEATURES

- STEAM SAFETY VALVE - ASME Code Safety Valve automatically opens to reduce pressure.
- STEAM PRESSURE GAUGE - Allows visual observation of steam while unit is in operation.
- MANUAL RESET PRESSURE CONTROL - Provides high limit pressure cut-off with manual reset feature.

SSB Electrical Steam Boiler Specifications

Boiler Model	kW	BHP Rating	Steam Output Lbs./Hr at 0 PSIG with 50F Feed Water	Amperage at Three Phase Voltage						Dimensions (in)			Shipping Wt. lbs.
				208/3	240/3	380/3	415/3	480/3	600/3	L	W	H	
SSB-12*	12	1.22	36.2	33	29	18	17	14	12	23	30	36	260
SSB-18*	18	1.84	54.2	50	43	27	25	22	17	23	30	36	270
SSB-24*	24	2.45	72.3	67	58	37	33	29	23	25	37	48	330
SSB-30*	30	3.06	90.4	83	72	46	42	36	29	25	37	48	340
SSB-36*	36	3.67	108	100	87	55	50	43	35	25	37	48	350
SSB-48	48	4.90	145	133	116	73	67	58	46	25	37	48	365
SSB-60	60	6.12	181	167	145	91	84	72	58	25	37	48	410
SSB-72	72	7.35	217	200	173	110	100	87	69	25	37	48	420
SSB-85	84	8.5	256	233	202	128	117	101	81	28	35	63	675
SSB-100	108	11.0	325	300	260	164	150	130	104	28	35	63	675
SSB-135	144	14.6	433	400	347	219	201	173	139	29	37	64	785
SSB-160	158	16.1	475	438	379	240	219	190	152	29	37	64	785
SSB-180	180	18.4	542	500	434	274	251	217	173	29	37	64	790

* Single phase available

NOTES:

- All wetted metal parts are 316 stainless steel. Consult factory for specific wetted parts materials.
- Allow 21 inches for heating element removal. When ordering: Specify model number, kw, volts, phase and optional equipment.
- Minimum of 1 meg ohm-cm specific resistivity deionized feed water must be used for proper & safe boiler operation

