SPARQ: SWA16, SWA20, SWA24

Residential Electric Hot Water Boilers

SPARQ Submittal Sheet

SPARQ Wall Mount Heating Boilers, Indoor Installation Only

Wholesaler _____

Job Name _____

Mechanical Contractor _____

Model Number _____ Quantity: _____

Boiler Size (kW) _____

Output Power (Watts) _____

Output Power (MBH) _____

Element Size (Watts) _____

Single Phase Voltage (AC) _____

Amps _____

Standard Features - All Models

- 100% Efficient, Zero Emissions
- UL 834 Listed
- American Made, ASME Constructed Steel Water Tube Heat Exchanger
- Modern Residential Design
- Powder Coated Steel Jacket
- Easy to Install (Only 54 lbs)
- Mounting Brackets Provided
- Built-in Dual 60 Amp Circuit Breakers
- Easy Interior Access, Top-Mounted Elements, No Drain Heat Exchanger
- Cooling Fan
- Secondary Manual High Limit
- Individual Element Relays
- Pump Switching Relay
- UL353 Listed Flow Switch (shipped loose)
- Temperature/Pressure Gauge (shipped loose)
- Air Vent (shipped loose)
- ASME 30 psi Pressure Relief Valve (shipped loose)
- 30 psi Maximum Allowable Working Pressure
- 90°-180°F Water Temperature Heating Range
- 20 Year Heat Exchanger Warranty
- 2 Year Parts Warranty

Boiler Control Features

- User Friendly LED 3 Button Diagnostic Display
- Load Management to Take Advantage of Off-Peak Utility Rates
- 4:1 Turn-down, Only Powers Necessary Number of Elements Needed for Demand
- Anti Short Cycle Timer
- Dry-fire Protection
- Dual Set-point
- DHW Priority
- Audible Alarm and Fault Codes
- Three Wire Thermostat Connection

Special Job Notes:

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Specifications															
											Recommended Copper Wire[3]			Recommended Aluminum Wire[4]	
Model	Boiler Size (kW)	Volt-age (AC)	Output Power (Watts)	Output Power (MBH)	Amps	Element Size (Watts)	Pump Load (Amps)	Total Amps	MCA[1]	MOP[2]	140°F (60°C) AWG	167°F (75°C) AWG	194°F (90°C) AWG	140°F (60°C) AWG	167°F (75°C) AWG
SWA16	16	240	16,000	54.6	66.7	4,000	5	72.7	90.8	100	2	3	4	1/0	1
SWA20	20	240	20,000	68.2	83.3	5,000	5	89.3	111.7	125	1/0	2	2	2/0	2/0
SWA24	24	240	24,000	82.0	100.0	6,000	5	106.0	132.5	150	2/0	1/0	1	4/0	3/0

1. Minimum Circuit Ampacity (MCA) is a calculated value that specifies the minimum primary power wire size to determine the minimum wire size required for a field wired product.
2. Maximum Over-Current Protection (MOP) is a calculated value that determines the maximum size of the over-current protection device (fuse or beaker).
3. Recommended Field Wire Size per National Electric Code (NEC). Check with latest version of NEC and local codes. No more than three (3) current-carrying conductors in raceway. Based on ambient temperature of 86°F (30°C). Other ambient temperatures see NEC or CEC for correction factors. UL-834, Section 14.2.
4. Recommended aluminum wire (not for use in Canada). It is recommended to apply antioxidant paste for aluminum conductors. Aluminum is more malleable than copper - avoid cuts or nicks during termination.

Dimensions (in.), Weights (lbs.), & Volume (gal.)											
Model	A	B	C	Boiler Supply	Boiler Return	Water Volume	Approximate Shipping Weight	Flow Switch Tee	Air Vent	Relief Valve	T/P Gauge
SWA16	24	19	10	3/4	3/4	2.2	54	3/4	3/4	3/4	1/4
SWA20	24	19	10	3/4	3/4	2.2	54	3/4	3/4	3/4	1/4
SWA24	24	19	10	3/4	3/4	2.2	54	3/4	3/4	3/4	1/4

SPARQ ELECTRIC BOILER

Special circuit/outlet for 240V single phase service required for boiler power