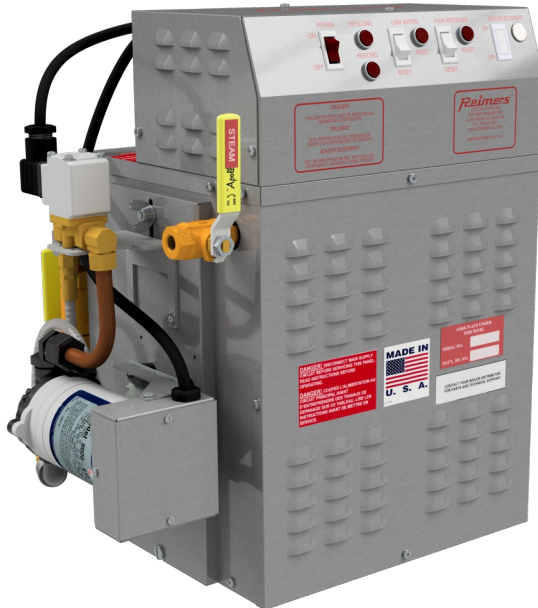




## AR4 - 8 STEAM BOILERS



### Features

- Miniature boiler max. vessel volume 0.29ft<sup>3</sup>
- Maximum safety valve setting 100psi
- All boilers are manufactured in accordance with the requirements of the A.S.M.E. Boiler and Pressure Vessel Code and A.S.M.E. CSD-1. Each boiler bears the National Board Stamp "M".
- High quality saturated steam, operating pressure range 0 – 85psig
- Heavy duty carbon steel pressure vessel. Vessel jacket and electrical enclosure 304 stainless steel
- Large selection of optional equipment

### Standard Equipment of Each Boiler Includes:

- A.S.M.E. pressure relief valve
- One (1) quick opening bottom blowoff valve as per A.S.M.E. Code B31.1
- Bronze steam outlet ball valve
- High pressure feed pump on ARH-models
- Low water cutoff control with manual reset
- One (1) high pressure cutoff control with manual reset
- One (1) operating pressure control
- Magnetic contactor
- Indicator lights for POWER, REFILLING, HEATING and ALARMS

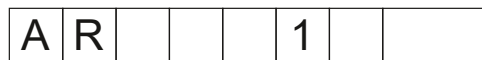
### Applications

- Process Steam
- Food Service(\*)
- Air Humidification
- Dry Cleaning
- Laboratories

(\*) DIRECT STEAM APPLICATIONS TO FOOD PRODUCTS: Reimers offers stainless steel boilers or #OPT1030 Brass/Bronze free boiler trim option (see Page 5). This alone does not guarantee the production of culinary grade steam. Applicable safety standards (i.e. 3-A T609) must be considered.

HEATING POWER KW	OUTPUT CAPACITY LBS/hr (KG/HR) <sup>(4)</sup>	BHP	NO. OF HEATING STAGES	VOLTAGE <sup>(1)</sup>	PHASE	SHIP WEIGHT <sup>(2)</sup> lbs (kg)	PRESSURE VESSEL CAPACITY GAL. (L)	OPERATING PRESSURE RANGE psi (bar)	STEAM OUTLET (NPT)	
									LP <15psig	HP >15psig
3 KW	10.24 (5)	0.3		120	1	90 (41)	2.14 (8.10)	0 - 85 (0 - 5.86)	1/2	1/4
4 KW	13.65 (6)	0.4		240	1	90 (41)	2.14 (8.10)	0 - 85 (0 - 5.86)	1/2	1/4
8 KW	27.30 (12)	0.8		240	1	90 (41)	2.14 (8.10)	0 - 85 (0 - 5.86)	1/2	1/4

## Model Number Key



Feed Water Options:  
Blank = Solenoid Valve  
H = Solenoid Valve + Pump

Boiler Power in kW  
3 = 4kW  
4 = 4kW  
8 = 8kW  
Voltage:  
A = 120V  
E = 240V

Example: ARH8E1F = AR-Series boiler with feed water solenoid and pump, 8kW heating power, heating power supply 240V, 1ph, control voltage power supply 120V 1ph, safety valve set to 100psi.

Blank = 120VAC power supply required at boiler installation site for hookup as boiler control voltage  
X = Boiler is equipped with transformer to provide 120VAC control voltage. (Applies to 380 & 415V voltages only)

Safety Relief Valve Setting:  
A = 15psi (1.03bar)  
F = 100psi (6.9bars)

<sup>(1)</sup> Each boiler model requires two (2) power supplies: Primary heating power and secondary control voltage. Nominal control voltage is 120V, 50/60Hz. Boiler models with the – X option (this applies to foreign voltages only, see Model Number Key below) require only the heating power supply of 240V 1PH, 50/60Hz.

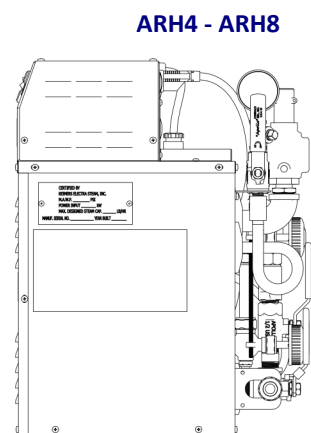
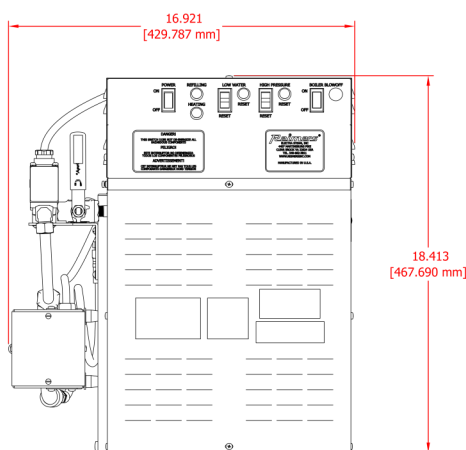
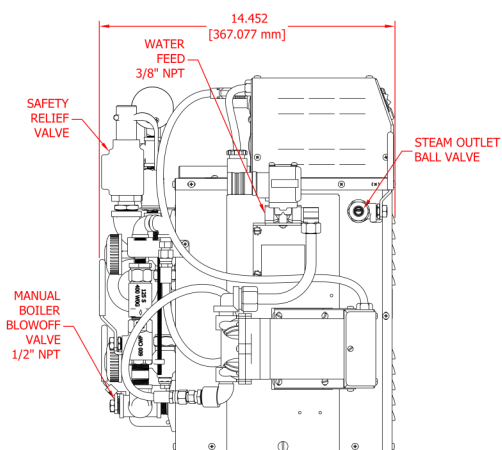
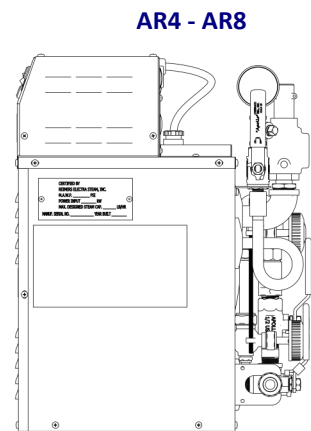
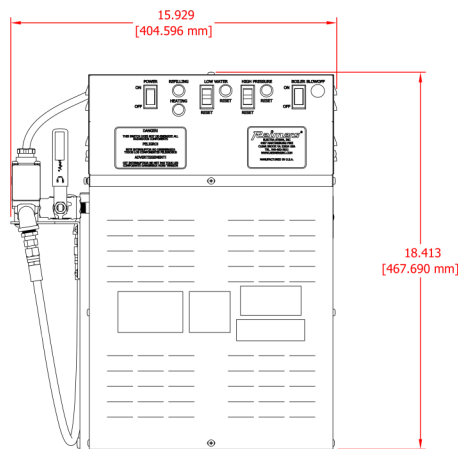
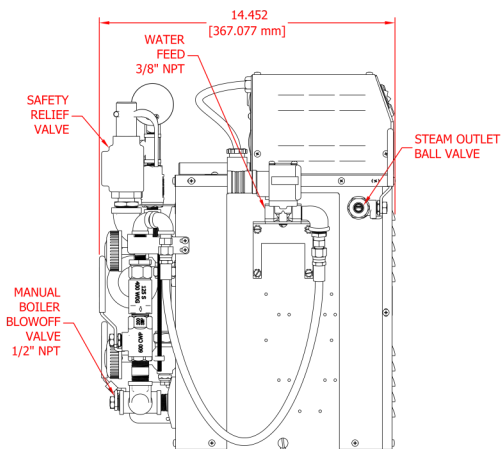
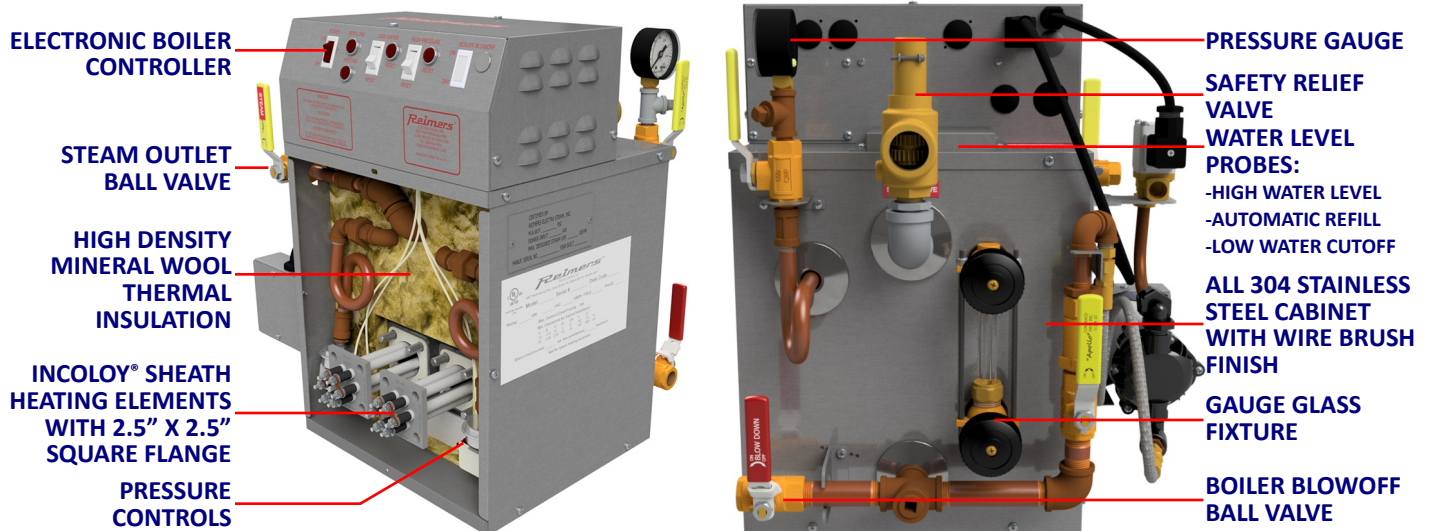
<sup>(2)</sup> The STEAM CAPACITY listed above is based on the evaporation rate from and at 212°F, at 0 psig. If the boiler feed water temperature is 50°F, then the STEAM CAPACITY for each model listed above is approximately 15% lower.

Please note that all information provided within this brochure is approximate and subject to change without notice. Please contact Reimers Electra Steam, Inc. with any questions regarding the specifications or dimensions detailed within.

## Electrical Specifications

BOILER HEATING POWER	PRIMARY VOLTAGE	PHASE	INTERNAL POWER FUSING	INTERNAL ELEMENT WIRING  AWG (mm <sup>2</sup> )	NUMBER & SIZES OF CONTACTORS	AMP DRAW POWER INCOME		MIN REQ. N.E.C. SERVICE	POWER SUPPLY	
						1	2			
						A	A		MIN. REQUIRED CONDUCTOR SIZE IN BOILER ELECTRICAL ENCLOSURE (*)	CONFIGURATION
3	120	1		8 (8.4)	1 x 35A	25.0		31.3	2 x AWG 10	1A
4	240	1		8 (8.4)	1 x 35A	16.7		20.8	2 x AWG 10	1A
8	240	1		8 (8.4)	1 x 35A	33.3		41.7	2 x AWG 8	1A

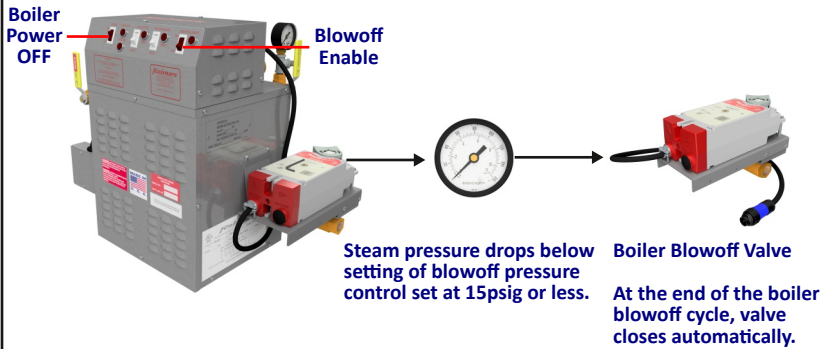
## Construction



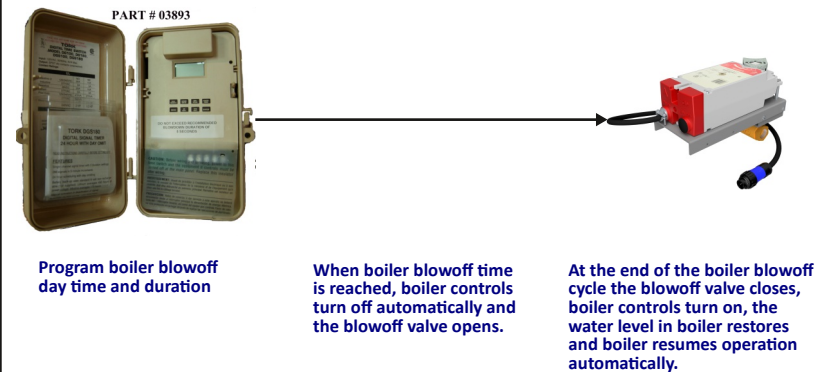
## Optional Equipment and Accessories

### Pressure Controlled Boiler Blowoff System Automatic Flush & Drain # OPT1016

(Not suitable for 24/7 operation):



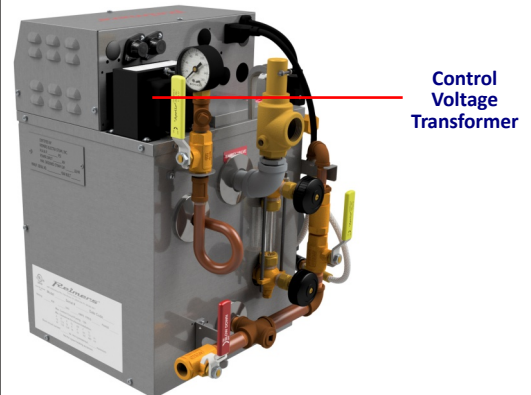
### Timer Controlled Boiler Blowoff System (Suitable for 24/7 operation), # OPT1001:



### ARD8E1F - Boiler w/ Steam Wand for Cleaning Applications



### Control Voltage Transformer for All AR Boiler Models for Boiler Operation with 240V 1PH Heating Power Supply Only



### ARJH8E1F - Boiler Steam w/ Steam Nozzle & Foot Pedal for Steam Cleaning Applications



### Brass/Bronze-Free Boiler Trim, #OPT1030-RB:

RB-series boilers in which standard brass/bronze boiler trim is replaced with carbon steel and stainless steel trim. This option reduces the lead concentration in the boiler water and discharged steam to significantly lower levels. Use this option in applications in which steam comes in direct contact with food and all other applications where lead concentrations are a concern.

### Steam Filter for Culinary Steam Applications, #OPT1032:

Use this filter with FDA listed materials in food processing applications where the steam comes in direct contact with food. The 3 or 5 micron cartridges employed in this steam filter meet or exceed the 3-A guidelines for the production of Culinary Steam under Accepted Practice T609.

NOTE: The installation of this filter alone does not guarantee that the steam produced by your system meets all applicable culinary steam standards.

### Timer Controlled Boiler On/Off, #OPT1017

