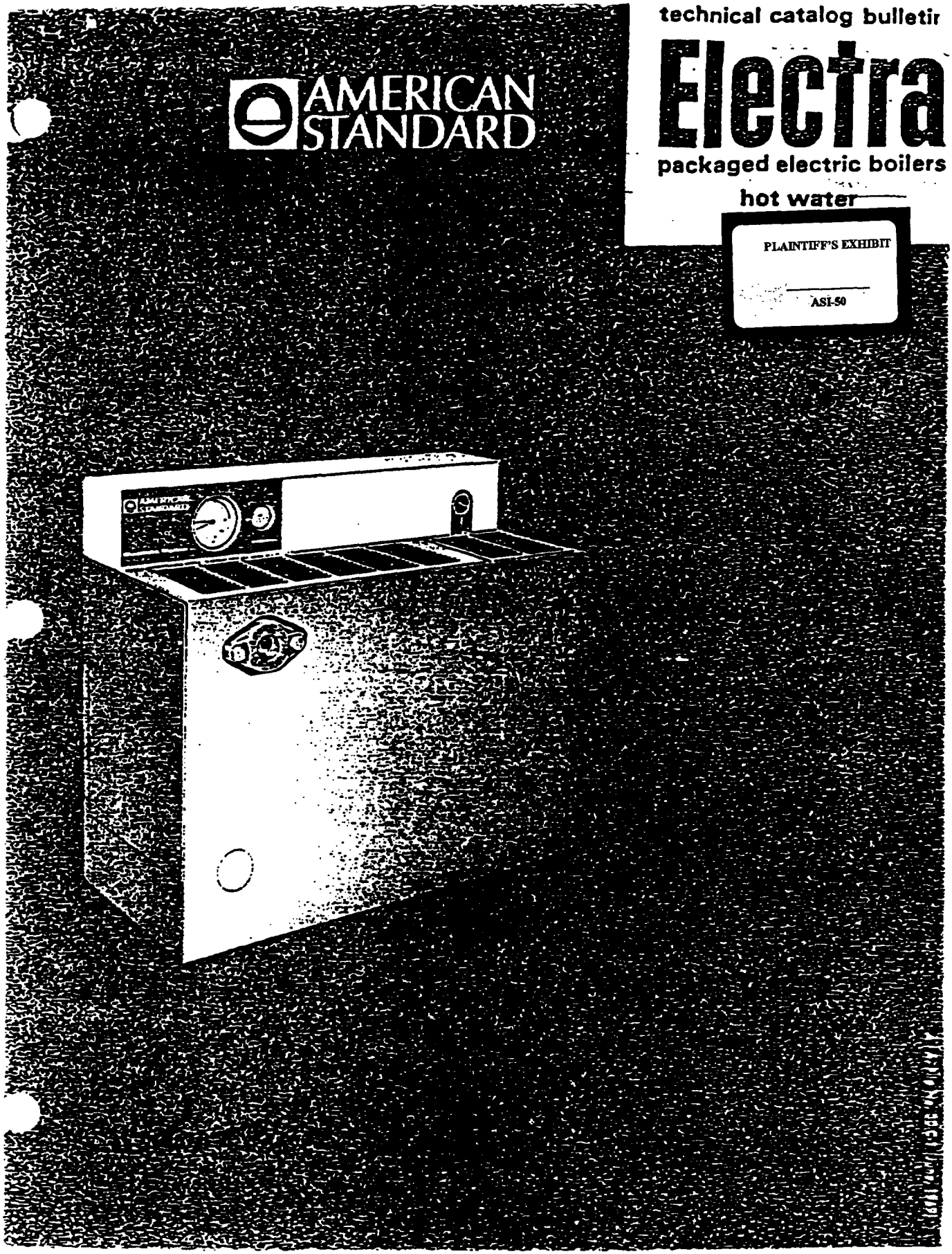
technical catalog bulletin

Electra

packaged electric boilers

hot water



PLAINTIFF'S EXHIBIT

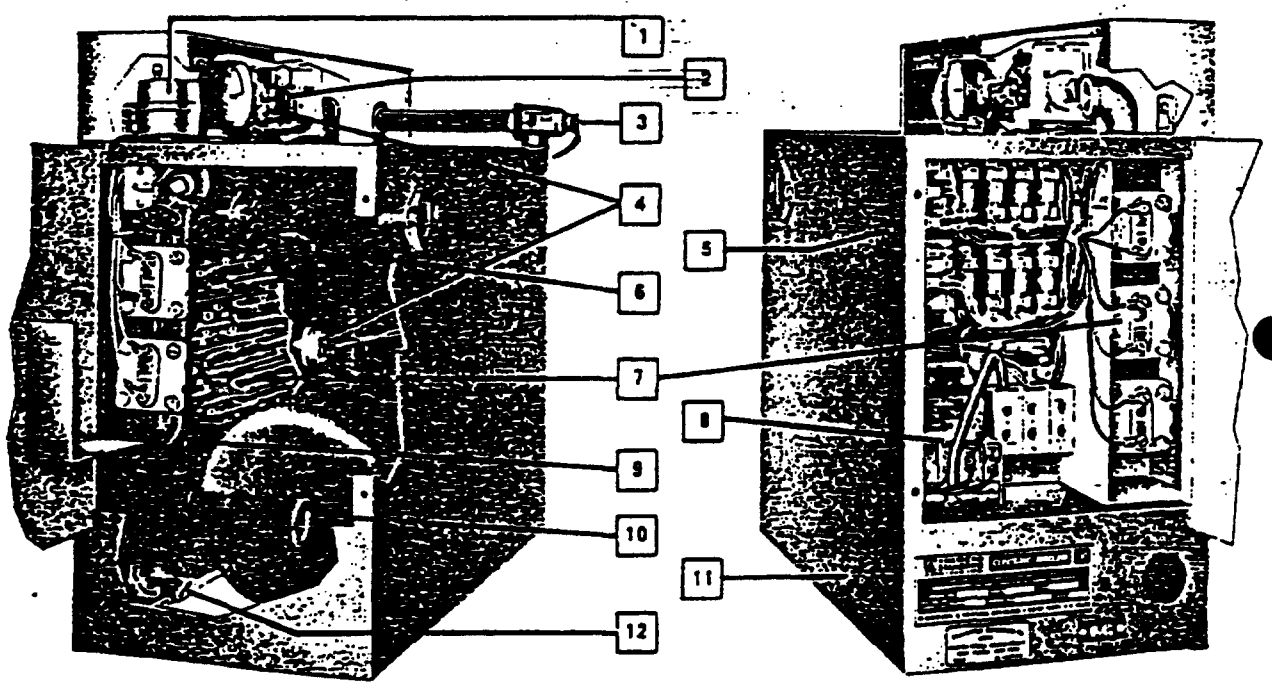
ASI-50

new *Electra*® electro-hydronic cast iron boilers — completely packaged for fast installation

For the ultimate in modern electric heating, choose the new Electra boilers! They provide the superior comfort and convenience of a hydronic heating system, while using clean, flameless electricity as a fuel. Designed for forced water applications in new homes or old, these electric boilers have outputs ranging from 34,000 to 82,000 Btuh. Their lightweight and extra-compact design make them ideal for wall-mounting, thereby freeing valuable floor space for other uses.

New Electra boilers are fast and low-cost to install, without requiring any new steps of the hydronics contractor that haven't been done before! They are completely packaged, with cast iron boiler shell, electric heating elements, circulator and expansion tank inside the jacket. All wiring has been completed and controls are mounted in place. Piping connections are made fast and easy—with only two simple electrical connections needed, to main power supply and room thermostat.

Electra (model EP) boilers come in four models, all the same in jacket and casting size, regardless of the number of heating elements installed. Each include those important features homeowners need for dependable, trouble-free electro-hydronic heating—rugged construction, simplified design and sensitive limit controls.



1—automatic air vent—bleeds off trapped air from the system water.

2—adjustable limit control—allows selection of maximum boiler water temperature for system design.

3—water pressure relief valve—is safely remote from all electrical connections.

4—pre-set pressure controls—guarantee safe operation within prescribed pressure range.

5—red indicator lights—on jacket front visually indicate operation of heating elements.

6—circulater—is wired for continuous operation.

7—electric heating elements—mounted inside ends of boiler casting are low density for extra quiet performance.

8—sequencing relay switch—provides for an incremental loading on the electric service line. This reduces line-voltage fluctuation and prevents power surge during energizing.

9—cast iron boiler shell—features an internal water flow baffle for quiet, efficient operation.

10—factory-installed expansion tank—is concealed inside jacket.

11—two-tone jacket—of beige and brown has doors on each side for easy access to controls and elements.

12—drain valve—with flat wheel handle allows connection of standard hose fittings.

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Electra (model EP) ratings*

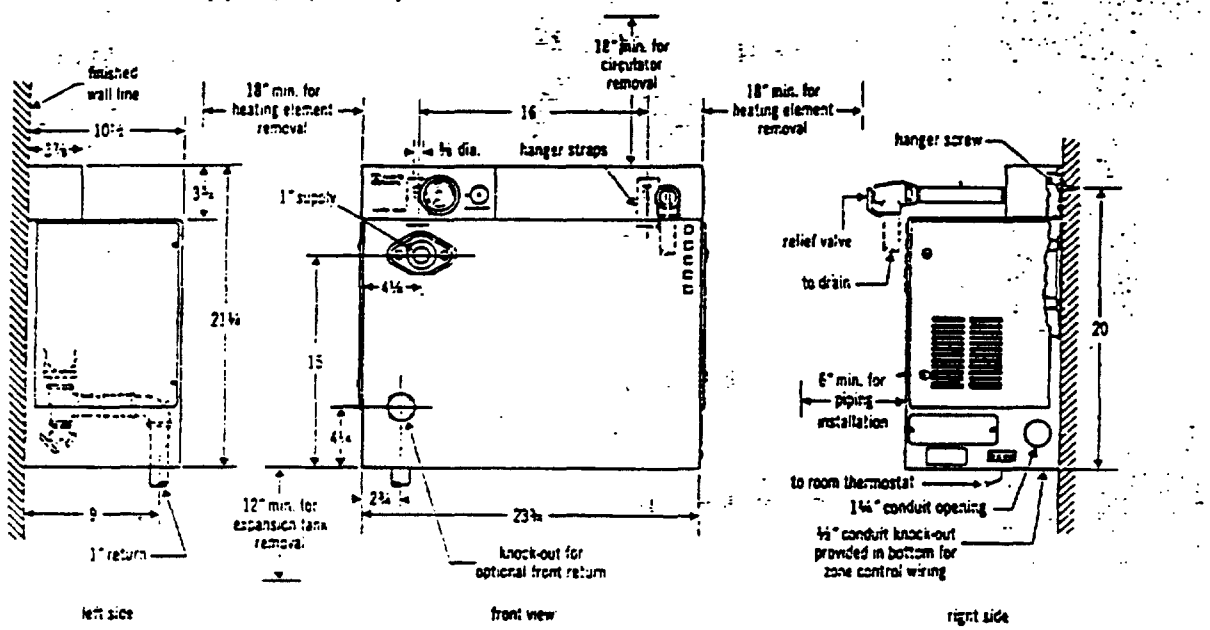
boiler number	no. of elements	watts	Btuh	amps @ 240 volts	no. of internal fuses	water capacity of casting (gallons)
EP-34	2	10,000	34,130	41.7	4	1.35
EP-51	3	15,000	51,195	62.4	6	1.35
EP-68	4	20,000	68,260	83.2	8	1.35
EP-82	5	24,000	81,912	100.0	10	1.35

* This boiler is intended for use on 240 volt a-c (nominal) three-wire, single-phase, 60-cycle service only. Internal wiring takes 120 volts from this source to operate the circulator and transformer.

crated shipping weight

boiler number	approx. shipping weight (pounds)
EP-34	88½
EP-51	90
EP-68	91½
EP-82	93

dimensions and tappings (inches)



controls

Special temperature and pressure controls keep Electra boilers operating within a safe range at all times. These controls are:

1—An adjustable immersion limit that allows installer to set maximum water temperature for system design. It shuts off the boiler if temperature exceeds his pre-determined setting.

2—A pre-set high pressure switch that de-energizes the boiler if the pressure reaches 28 psi. This switch is reinforced by the relief valve, which is pre-set to relieve at 30 psi.

3—A pre-set safe-fill switch that keeps elements from being energized unless pressure in the system is 4 psi. This prevents any chance of heating elements burning out should an attempt be made to operate the boiler while dry.

Underwriters' Laboratories Inc. LISTED ELECTRIC CENTRAL HEATING BOILER WITH INTERNAL LIMIT CONTROL E38076 No. 000 000

EP packaged electric boilers are designed and built to comply with the American Society of Mechanical Engineers' Code. They have been examined and listed by Underwriters' Laboratories under their Label Service Procedure.

AMERICAN STANDARD
PLUMBING & HEATING DIVISION

electra

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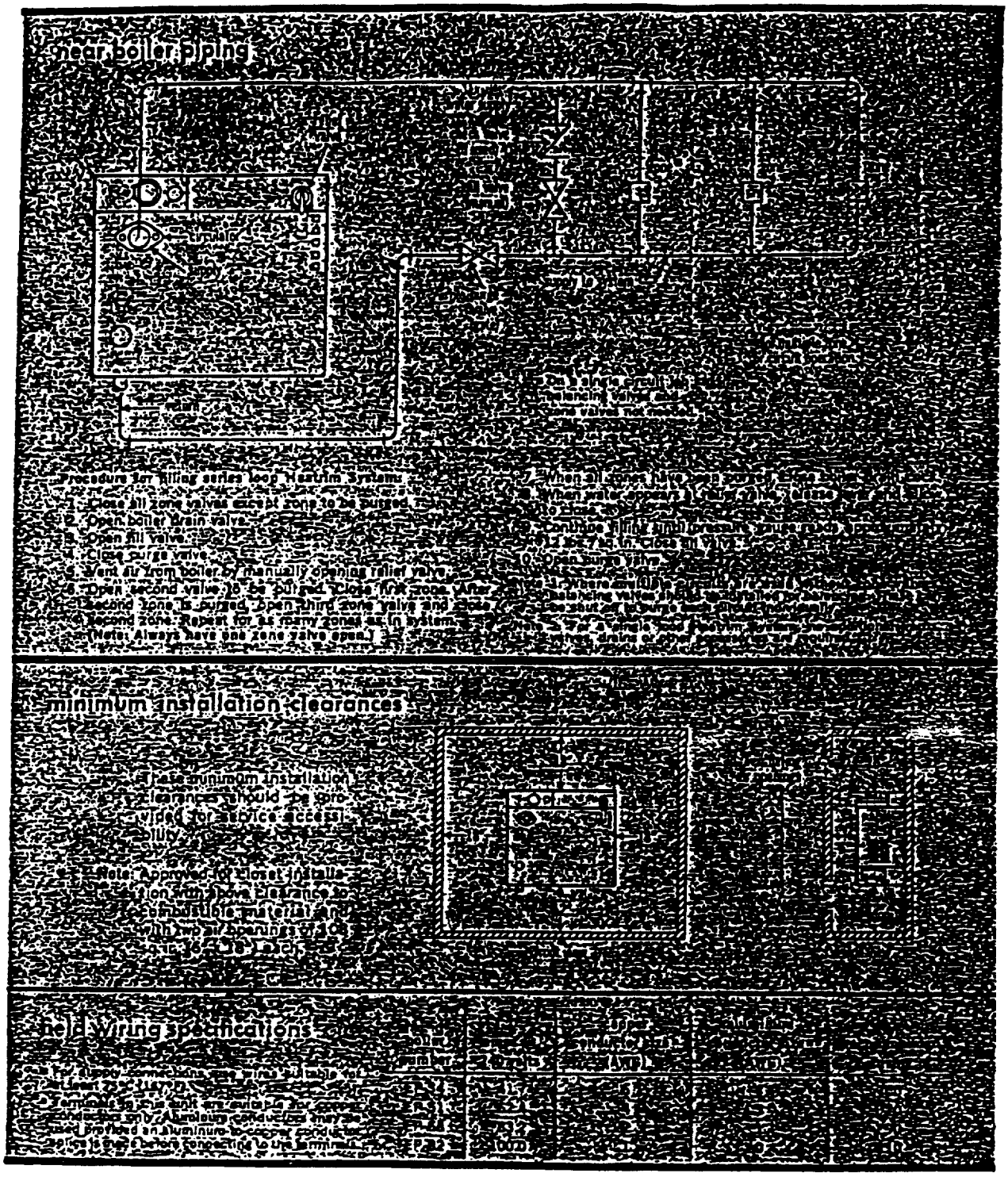

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