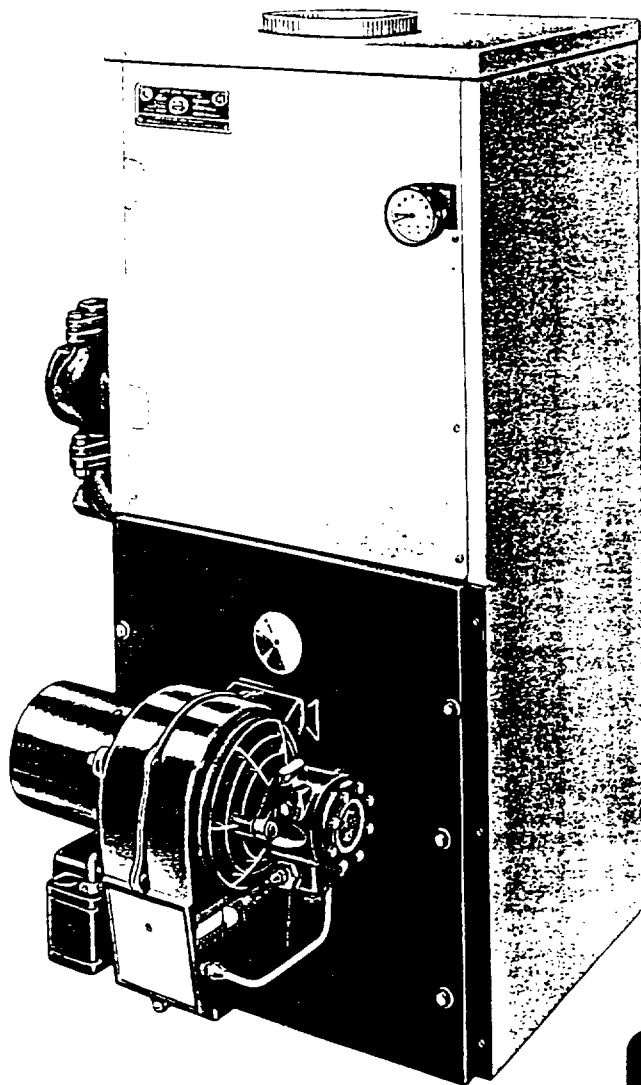


AMERICAN-Standard

APT

packaged oil-fired boilers

hot water



PLAINTIFF'S
EXHIBIT

ASI-285

August, 1964

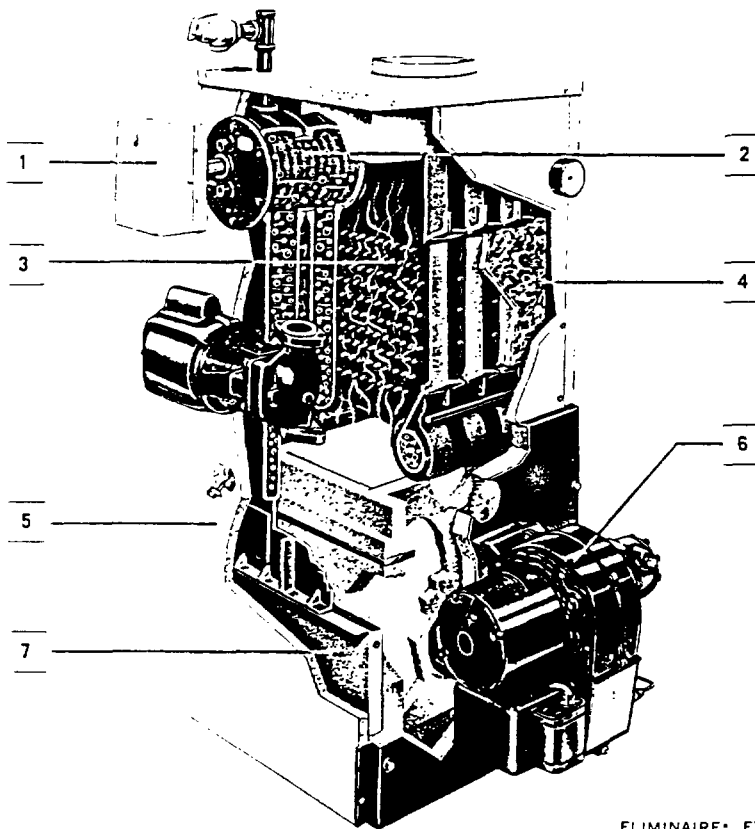
00308

the new oil-fired APT—easy-to-install, packaged with built-in tankless heater

AF

The new cast iron APT meets the need for an oil-fired hot water boiler that can furnish, at low cost, the superior quality of hydronic heat and a dependable supply of domestic hot water to the modern home. The compact APT is available completely packaged with I=W=H-rated tankless coil in 4, 5, and 6 section sizes. I=B=R-

approved ratings are in the important 95,000 to 165,000 Btu. hr range. Installation is fast and easy, in new home or old. All controls are factory-mounted and pre-wired. Rugged cast iron sections, precision DH-5 Arcoflame burner, and ELIMINAIRE[®] design, further guarantee durability, economy and efficiency in operation.



1—controls—combination light-sensing primary and triple immersion control is factory-mounted and pre-wired.

2—water heater—provides ample supply of domestic hot water; I=W=H-approved ratings.

3—cast iron sections—multiple pin-type projections extract maximum heat from flue gases. Sections are tested at 2½ times maximum working pressure.

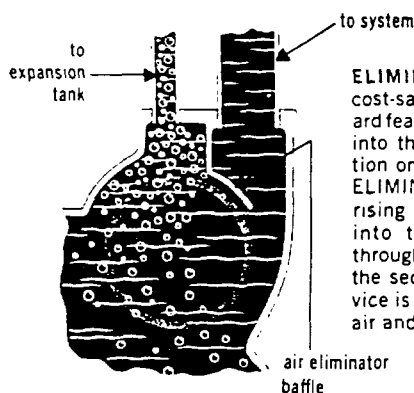
4—cleanout panel—easily accessible one-piece panel permits cleaning of all flue surfaces without disturbing burner, controls and accessories.

5—jacket—smartly styled of sturdy steel in sparkling gray finish; fully insulated.

6—model DH-5 Arcoflame burner—with sling mounting, is specifically designed and adapted for use with APT boiler. EXACT-AIRE control and special turbulator and disc combination assure proper air-oil mixture for clean, economical firing.

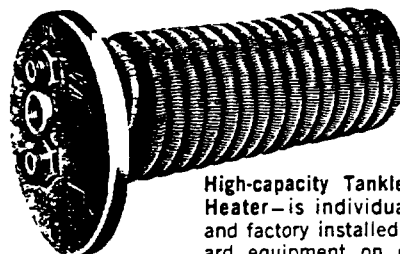
7—insulated steel base—firmly supports cast iron sections and encloses refractory combustion chamber.

ELIMINAIRE[®], EXACT-AIRE and Arcoflame are trademarks of AR & SS.



ELIMINAIRE[®]—a patented cost-saving American-Standard feature—is integrally cast into the left hand end section on all APT boilers. The ELIMINAIRE[®] baffle diverts rising air bubbles directly into the expansion tank through a special tapping in the section. No external device is necessary to separate air and water.

Patent No. 3,123,454



High-capacity Tankless Water Heater—is individually sized and factory installed as standard equipment on each APT packaged boiler. Specifically designed for forced circulation boilers, the copper coil fits into the extra large 5" nipple port at the top of the section. High I=W=H approved ratings are obtained by actual test in the boiler.

packaged oil-fired boilers



APT ratings

boiler number	gross I=B=R output (Btu/hr)	net I=B=R ratings* (Btu/hr)	I=B=R burner capacity* (gph)	chimney		water content (gallons)
				size (inches)	height (feet)	
APT-95	95,000	71,300	0.95	8x8	15	9.6
APT-130	130,000	97,500	1.25	8x8	15	11.7
APT-165	165,000	123,800	1.60	8x8	15	13.7

* Net I=B=R ratings shown include allowance for normal piping loss and pick up load. American-Standard should be consulted before selecting a boiler for installations having unusual piping and pick up requirements.

• Nozzle sizes, gph, 60° S, furnished with APT packaged hot water boilers: APT-95, 0.90; APT-130, 1.25; and APT-165, 1.50.

tankless heater ratings

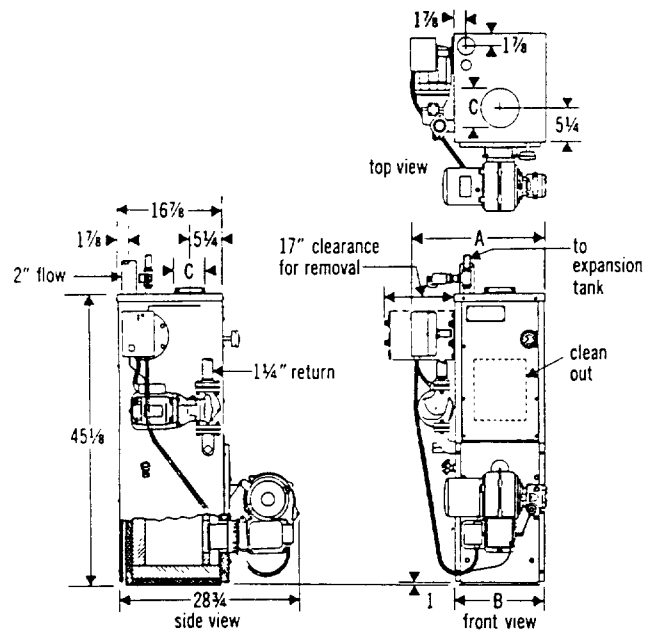
boiler number	I=B=R burner capacity (gph)	heater number	I=W=H ratings (gpm)▲
APT-95	0.95	218	2¾
APT-130	1.25	222	3¼
APT-165	1.60	230	3¾

• Domestic hot water connection sizes for all heaters is ½" I.P.S.

▲ Gallons of water per minute heated from 40° F to 140° F with 200° F boiler water temperature.

dimensions and tappings

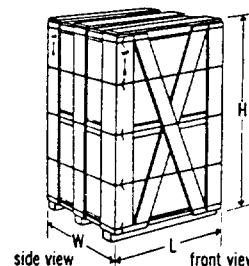
boiler number	number of sections	size of tappings (inches)		dimensions (inches)		
		flow	return	A	B	C
APT-95	4	2	1¼	21½	14¼	6
APT-130	5	2	1¼	24¾	17½	6
APT-165	6	2	1¼	28	20¾	7



crated dimensions

boiler number	dimensions (inches)			approximate shipping weight (lbs.)
	H	W	L	
APT-95	46½	21½	23¾	484
APT-130	46½	21½	27½	548
APT-165	46½	21½	30¾	621

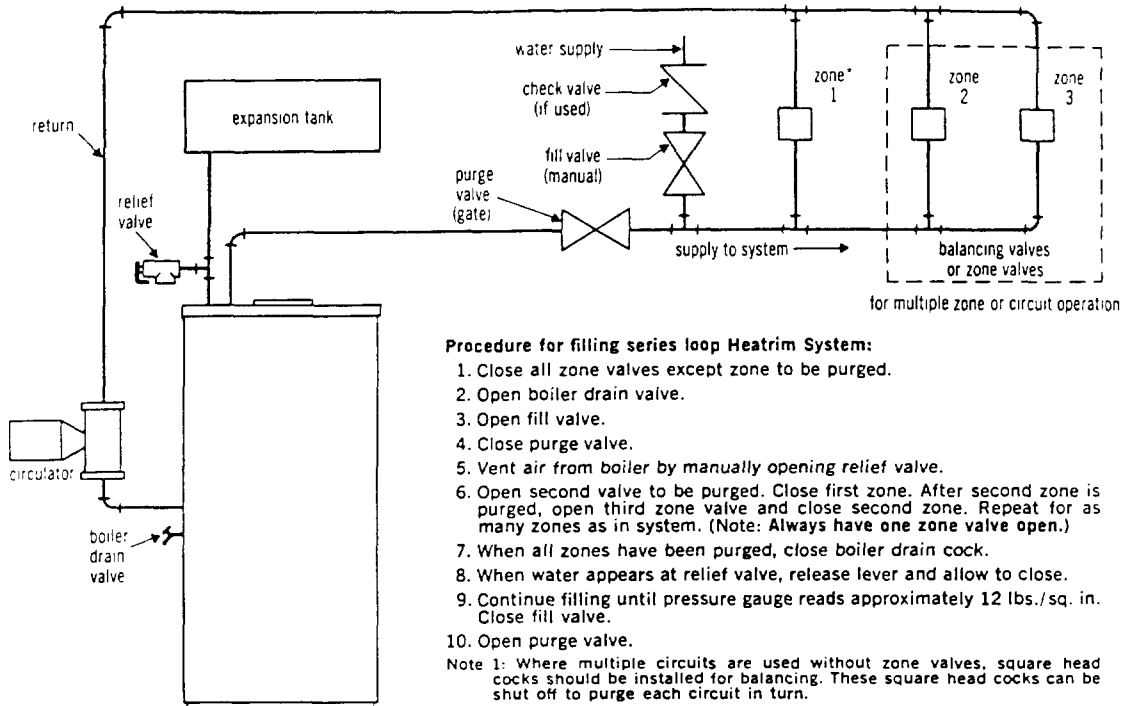
DH-5 Arcoflame burner shipped in separate carton.



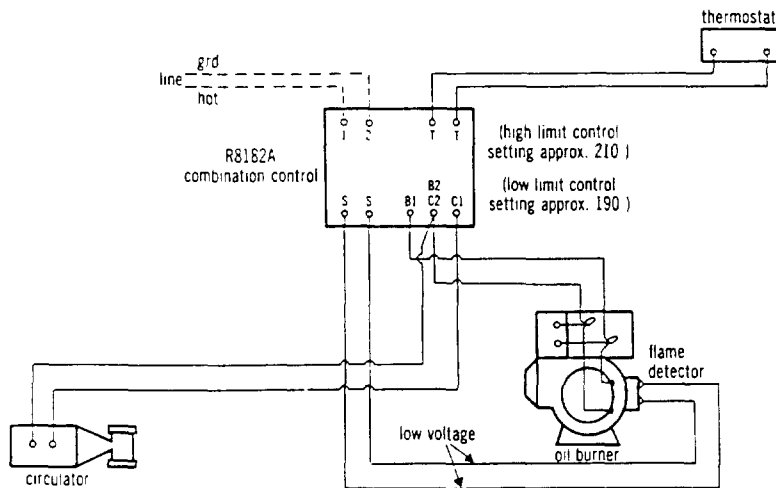
APT packaged oil-fired boilers are designed and built to comply with the American Society of Mechanical Engineer's Code, and bear their approval symbol. Ratings have been approved by the Institute of Boiler and Radiator Manufacturers. The Model DH-5 Arcoflame Oil Burner is listed by the Underwriters' Laboratories, Inc. for No. 1 and No. 2 fuel oil; complies with Commercial Standard CS-75; and is approved by the New York City Board of Standards and Appeals, by the State Fire Marshal of the Commonwealth of Massachusetts, and by the Department of State Police, State of Connecticut.

packaged oil-fired boilers

near boiler piping



standard wiring diagram



AMERICAN-Standard
PLUMBING AND HEATING DIVISION

AMERICAN RADIATOR & STANDARD SANITARY CORPORATION
40 WEST 40TH STREET • NEW YORK, N.Y. 10018

00311

AMERICAN-Standard

TRADE PRICE SCHEDULE

APT PACKAGED BOILER-BURNER UNITS WITH TANKLESS HEATER

Designed and equipped with controls for forced circulation.

Pre-wired, factory assembled with jacket and crated.

"Eliminaire" (cast-in air separator).

Motors and controls regularly furnished for 115 volt, 60 cycle current.



WATER

packaged unit number	gross I=B=R output Mbh	I=B=R burner capacity gph	tankless heater number	Δ I=W=H rating	net I=B=R rating Mbh	net rating sq ft water	Trade Price with standard equipment	chimney size	approx. shipping weight
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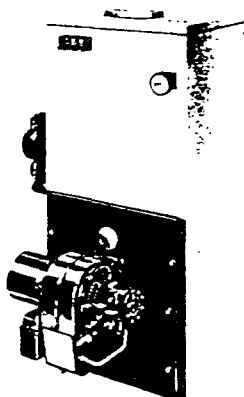


Packaged units with factory installed tankless heater: With R8182A Aquastat-relay combination, high limit, low limit and circulator control, light sensing constant ignition primary control.

APT-95	95	.95	218	2¾	71.3	475	\$390.00	8 x 8 x 15	484
APT-130	130	1.25	222	3¼	97.5	650	430.00	8 x 8 x 15	548
APT-165	165	1.60	230	3¾	123.8	825	490.00	8 x 8 x 15	621

*Nozzle sizes, gph, 60° solid, furnished with APT packaged units:
APT-95, 0.90; APT-130, 1.25; APT-165, 1.50.

Δ Gallons of water per minute heated from 40F to 140F with 200F boiler water temperature.



Standard equipment:

Model DH-5 Arcoflame oil burner with sling mounting and factory installed cad cell, bracket and leads.

CB-52502 thermostat.

Nozzle.

Light weight insulating fire brick combustion chamber.

1¼" circulator.

Wiring harness.

Draft regulator.

Pressure and temperature gauge.

ASME relief valve.

Drain valve.

Zone valve packages are available for APT units. For details and prices, see page 30, Price Book HH-5.

Note: APT units are shipped with flush jacket and with all electrical controls (except thermostat), circulator and piping, factory installed and wired. Arcoflame oil burner shipped separately. Draft regulator, relief valve and thermostat are secured inside boiler crate.

Units furnished only as listed above

This Price List has been prepared for the convenience of American-Standard distributors and their trade customers only. The trade prices shown represent fixed markups over distributor prices to reflect reasonable selling and distribution expense and do not purport to represent actual prices prevailing in any particular market.