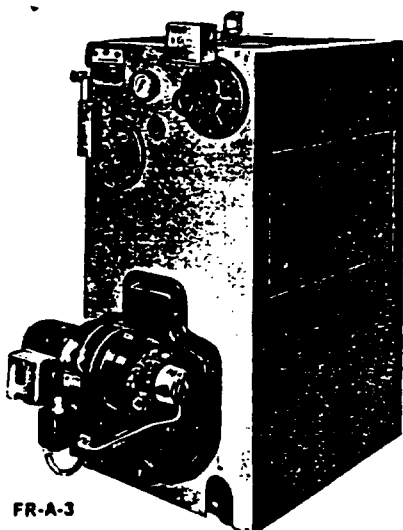
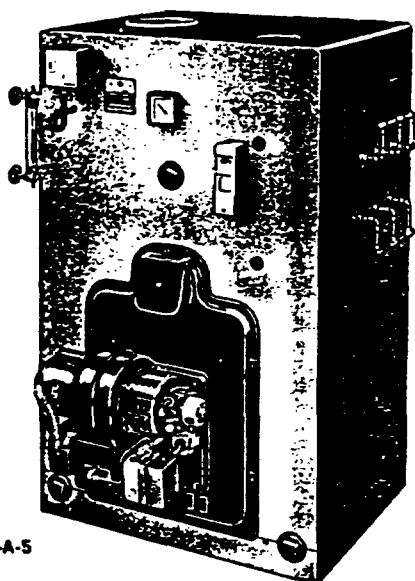


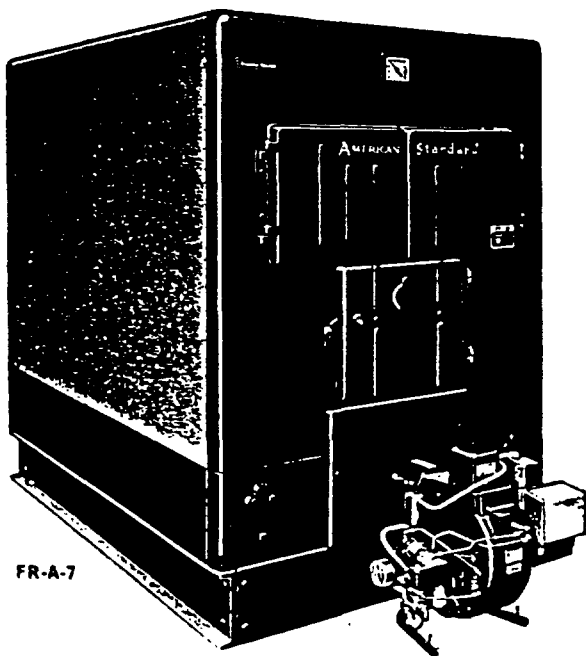
more BTU's for the money!



FR-A-3



FR-A-5



FR-A-7

FR

AMERICAN-Standard flame retention oil heating units

Put a new FR next to a "same-size" conventional boiler and you'll say "So what?" But—fire them up and compare performances—it's all the difference in the world!

THE NEW FR OPERATES AT GREATER EFFICIENCY AND HIGHER OUTPUT—with no increase in size, no boost in price!

Two things make that difference:

(1) The flame retention burner generates more heat by precisely mixing air and oil so that every particle of fuel is burned. (2) Improved internal design exposes more cast iron section area to this highly concentrated flame. No combustion chamber is needed on wet-base models—a big help on the job and there's no worry about future replacement.

19 models for steam, forced circulation and gravity hot water

I=B=R approved outputs 275,000 to 3,000,000 Btuh

ideal for large homes, and all commercial and industrial installations

life time cast iron sections (tested at 2½ times normal operating pressure)

sturdy steel jacket attractively finished in gray, fully insulated

provision for an internal domestic hot water coil on models FR-A-3 and FR-A-5 and an external domestic hot water arrangement on the model FR-A-7

FR flame retention oil heating units



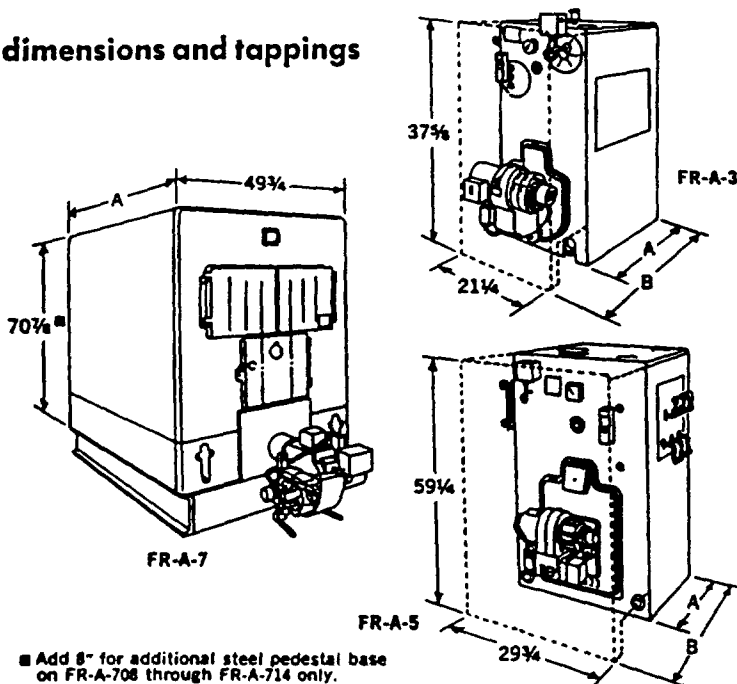
FR ratings

unit number#		gross l=B=R output (Btu/hr)	net l=B=R ratings			l=B=R burner capacity (gph)	l=B=R allowance for piping Δ	chimney		water content full (gallons)
steam	water		water & steam (Btu/hr)	water (sq. ft.)	steam (sq. ft.)			size (in.)	height (ft.)	
FR-A-36-SB(T)	FR-A-36-WB(T)	275,000	206,300	1375	860	2.45	1.333	8x12	15	30.5
FR-A-37-SB(T)	FR-A-37-WB(T)	325,000	243,800	1625	1016	2.90	1.333	8x12	15	33.8
FR-A-504-SB(T)	FR-A-504-WB(T)	384,000	288,100	1921	1200	3.55	1.333	12x12	15	57.7
FR-A-505-SB(T)	FR-A-505-WB(T)	472,000	354,100	2361	1475	4.30	1.333	12x12	20	66.7
FR-A-506-SB(T)	FR-A-506-WB(T)	560,000	420,100	2801	1750	5.10	1.333	12x12	20	75.5
FR-A-507-SB(T)	FR-A-507-WB(T)	648,000	486,100	3241	2025	5.90	1.333	12x16	20	84.5
FR-A-508-SB(T)	FR-A-508-WB(T)	736,000	552,100	3681	2301	6.70	1.333	12x16	20	93.4
FR-A-509-SB(T)	FR-A-509-WB(T)	824,000	618,200	4121	2576	7.45	1.333	12x16	20	102.3
FR-A-510-SB(T)	FR-A-510-WB(T)	912,000	684,200	4561	2851	8.25	1.333	16x16	20	111.3
FR-A-511-SB(T)	FR-A-511-WB(T)	1,000,000	750,200	5001	3126	9.05	1.333	16x16	20	120.2
FR-A-706-SO-B	FR-706-WO-B	1,160,000	870,200	5801	3626	10.55	1.333	16x16	30	167.3
FR-A-707-SO-B	FR-707-WO-B	1,376,000	1,041,600	6944	4340	12.30	1.321	16x20	35	189.5
FR-A-708-SO-B	FR-708-WO-B	1,580,000	1,211,700	8078	5049	14.15	1.304	16x20	35	211.6
FR-A-709-SO-B	FR-709-WO-B	1,812,000	1,403,600	9357	5848	16.35	1.291	20x20	40	233.7
FR-A-710-SO-B	FR-710-WO-B	2,020,000	1,568,300	10455	6535	18.15	1.288	20x20	45	255.9
FR-A-711-SO-B	FR-711-WO-B	2,228,000	1,729,800	11532	7208	20.20	1.288	20x20	55	277.9
FR-A-712-SO-B	FR-712-WO-B	2,440,000	1,894,400	12629	7893	21.95	1.288	20x24	60	302.5
FR-A-713-SO-B	FR-713-WO-B	2,720,000	2,111,800	14079	8799	24.10	1.288	20x24	70	327.1
FR-A-714-SO-B	FR-714-WO-B	3,000,000	2,329,200	15528	9705	26.30	1.288	24x24	80	351.7

■ Suffix "T" denotes internal tankless heater.

▲ American-Standard should be consulted before selecting an FR oil heating unit for installations having unusual piping and pick up requirements.

dimensions and tappings



■ Add 8" for additional steel pedestal base on FR-A-706 through FR-A-714 only.

unit number	number of sections	dimensions (inches)		number and size of tappings (inches)	
		A flush jacket	B jacket extension	flow	return
FR-A-36	6	24 1/4"	39 3/4"	(1)-3	(1)-2 1/2"
FR-A-37	7	27 3/4"	43 3/4"	(1)-3	(1)-2 1/2"
FR-A-504	4	22 3/4"	47 3/4"	(2)-4	(4)-2 1/2"
FR-A-505	5	27 3/4"	52 3/4"	(2)-4	(4)-2 1/2"
FR-A-506	6	31 3/4"	56 3/4"	(2)-4	(4)-2 1/2"
FR-A-507	7	36 3/4"	61 3/4"	(2)-4	(4)-2 1/2"
FR-A-508	8	40 3/4"	65 3/4"	(2)-4	(4)-2 1/2"
FR-A-509	9	45 3/4"	70 3/4"	(2)-4	(4)-2 1/2"
FR-A-510	10	49 3/4"	74 3/4"	(2)-4	(4)-2 1/2"
FR-A-511	11	54 3/4"	79 3/4"	(2)-4	(4)-2 1/2"
FR-A-706	6	49	—	(3)-4	(2)-6
FR-A-707	7	56 1/2"	—	(3)-4	(2)-6
FR-A-708	8	64	—	(3)-4	(2)-6
FR-A-709	9	71 1/2"	—	(4)-4	(2)-6
FR-A-710	10	79	—	(4)-4	(2)-6
FR-A-711	11	86 1/2"	—	(4)-4	(2)-6
FR-A-712	12	94	—	(5)-4	(2)-6
FR-A-713	13	101 1/2"	—	(5)-4	(2)-6
FR-A-714	14	109	—	(5)-4	(2)-6

FR oil heating units are designed and built to comply with the American Society of Mechanical Engineers' Code, and bear their approval symbol. Ratings have been approved by the Institute of Boiler and Radiator Manufacturers. American-Standard flame retention oil burners (115 and 230 volt/60 cycle) are listed with Underwriters' Laboratories, Inc. for No. 1 and No. 2 grades of fuel oil, whether obtained by distillation or by the catalytic cracking process. They are approved by the New York City Board of Standards and Appeals, the State Fire Marshal of the Commonwealth of Massachusetts, and the Department of State Police, State of Connecticut.



AMERICAN-Standard

PLUMBING AND HEATING DIVISION

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