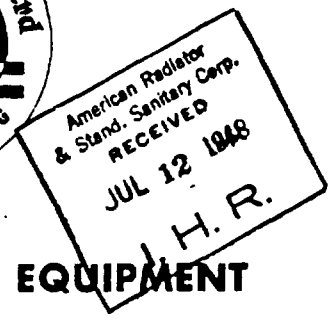
Heating & Plumbing - Dated 1939-1950 ERB





RADIATOR HEATING EQUIPMENT

Current Line — ***June 1, 1948***

IMPORTANT INFORMATION

To supply you with up-to-date information on our products, we have published this pamphlet containing a complete list of AMERICAN-Standard Radiator Heating Equipment currently in our line. Products are listed in the same order as they are shown in the General Catalogue, with page numbers included for easy reference.

Products not listed in this pamphlet ARE NO LONGER IN PRODUCTION, and catalogue pages showing them should not be used for reference, ordering, or writing specifications.

Please insert this pamphlet in your catalogue binder, and be sure to refer to it when you select AMERICAN-Standard Heating Equipment.

AMERICAN RADIATOR & Standard Sanitary
CORPORATION
PITTSBURGH 30, PA.



Catalogue Page: A 1 and A 2

AMERICAN BOILERS
COAL (HAND-FIRED)
STEAM OR WATER
ARCOLINER BOILER (DRY BASE)

BOILER NUMBER		▲INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type Water Heater			
S-153-D	W-153-D	180	290
S-154-D	W-154-D	270	430
S-155-D	W-155-D	370	590

Catalogue Page: A 3 and A 4

SEVERN BOILER

BOILER NUMBER		▲INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type Water Heater			
S-17	W-17	350	560
S-21	W-21	450	720
S-25	W-25	550	880
S-29	W-29	630	1,010
S-33	W-33	710	1,140
S-37	W-37	780	1,250

NOTE: Foot Treadles have been eliminated.

Catalogue Page: A 5 thru A 9

REDFLASH BOILER

BOILER NUMBER		▲INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
2-S-6	2-W-6	770	1,230
2-S-7	2-W-7	940	1,505
2-S-8	2-W-8	1,110	1,775
2-S-9	2-W-9	1,280	2,050
2-S-10	2-W-10	1,450	2,320
2-S-11	2-W-11	1,620	2,590
2-S-12	2-W-12	1,790	2,660
3-S-6	3-W-6	1,500	2,400
3-S-7	3-W-7	1,800	2,880
3-S-8	3-W-8	2,100	3,360
3-S-9	3-W-9	2,400	3,840
3-S-10	3-W-10	2,700	4,320
3-S-11	3-W-11	3,000	4,800
3-S-12	3-W-12	3,300	5,280
3-S-13	3-W-13	3,600	5,760
4-S-7	4-W-7	3,000	4,800
4-S-8	4-W-8	3,575	5,720
4-S-9	4-W-9	4,150	6,640
4-S-10	4-W-10	4,725	7,560
4-S-11	4-W-11	5,300	8,480
4-S-12	4-W-12	5,875	9,400
4-S-13	4-W-13	6,450	10,320
5-S-8	5-W-8	5,000	8,000
5-S-9	5-W-9	5,700	9,120
5-S-10	5-W-10	6,400	10,240
5-S-11	5-W-11	7,100	11,360
5-S-12	5-W-12	7,800	12,480
5-S-13	5-W-13	8,500	13,600
5-S-14	5-W-14	9,200	14,720
5-S-15	5-W-15	9,900	15,840

Catalogue Page: A 19 and A 20

AMERICAN BOILERS
OIL FIRED
STEAM OR WATER
ARCOLINER OIL BOILER (WET-BASE)

BOILER NUMBER		▲INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type Water Heater			
S-O-153	W-O-153	260	420
S-O-154	W-O-154	360	580
S-O-155	W-O-155	450	720
S-O-156	W-O-156	520	835
Arranged for Biltin Taco Tank Type or Tankless Type Water Heater			
S-O-153-T	W-O-153-T	260	420
S-O-154-T	W-O-154-T	360	580
S-O-155-T	W-O-155-T	450	720
S-O-156-T	W-O-156-T	520	835

Catalogue Page: A 21 and A 22

SEVERN OIL BOILER

BOILER NUMBER		▲INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type Water Heater			
S-17-O	W-17-O	400	640
S-21-O	W-21-O	460	740
S-25-O	W-25-O	520	830
S-29-O	W-29-O	600	960
S-33-O	W-33-O	690	1,100
S-37-O	W-37-O	780	1,250
Arranged for Biltin Taco Tank Type or Tankless Type Water Heater			
S-17-O-T	W-17-O-T	400	640
S-21-O-T	W-21-O-T	460	740
S-25-O-T	W-25-O-T	520	830
S-29-O-T	W-29-O-T	600	960
S-33-O-T	W-33-O-T	690	1,100
S-37-O-T	W-37-O-T	780	1,250

Catalogue Page: A 23 and A 24

OAKMONT OIL BOILER

BOILER NUMBER		▲INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type or Tankless Type Water Heater			
†S-84	†W-84	390	625
†S-85	†W-85	480	770
S-86	W-86	560	895
S-87	W-87	640	1,025
S-88	W-88	730	1,170
S-89	W-89	810	1,295

†Crown Sheet Baffles are regular equipment although not shown in catalogue.

▲For definition of "Installed Radiation" see Catalogue Page A 68.
For explanation of Biltin Taco Water Heater Capacities see Catalogue Page A 69.
See General Catalogue pages referred to for other details.

00499

Catalogue Page A 25 and A 26

EXBROOK OIL BOILER

BOILER NUMBER		INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
Not Adapted for Biltin Taco Water Heater			
S-207	W-207	775	1,240
S-208	W-208	950	1,520
S-209	W-209	1,125	1,800
S-2010	W-2010	1,300	2,080
S-2011	W-2011	1,475	2,360
S-2012	W-2012	1,650	2,640
Arranged for Biltin Taco Tank Type or Tankless Type Water Heater			
S-207-T	W-207-T	775	1,240
S-208-T	W-208-T	950	1,520
S-209-T	W-209-T	1,125	1,800
S-2010-T	W-2010-T	1,300	2,080
S-2011-T	W-2011-T	1,475	2,360
S-2012-T	W-2012-T	1,650	2,640

A 27 and A 28

REDFLASH OIL BOILER

BOILER NUMBER		INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
3-S- 9-O	3-W- 9-O	1,650	2,640
3-S-10-O	3-W-10-O	1,875	3,000
3-S-11-O	3-W-11-O	2,100	3,360
3-S-12-O	3-W-12-O	2,325	3,720
3-S-13-O	3-W-13-O	2,550	4,080
3-S-14-O	3-W-14-O	2,775	4,440
4-S-10-O	4-W-10-O	2,750	4,400
4-S-11-O	4-W-11-O	3,100	4,960
4-S-12-O	4-W-12-O	3,450	5,520
4-S-13-O	4-W-13-O	3,800	6,080
4-S-14-O	4-W-14-O	4,150	6,640
5-S-10-O	5-W-10-O	3,900	6,240
5-S-11-O	5-W-11-O	4,400	7,040
5-S-12-O	5-W-12-O	4,900	7,840
5-S-13-O	5-W-13-O	5,400	8,640
5-S-14-O	5-W-14-O	5,900	9,440
5-S-15-O	5-W-15-O	6,400	10,240
5-S-16-O	5-W-16-O	6,900	11,040
5-S-17-O	5-W-17-O	7,400	11,640

A 29 thru A 32

WATER TUBE OIL BOILER

BOILER NUMBER		INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
S-0629	W-0629	1,200	1,920
S-0729	W-0729	1,450	2,320
S-0829	W-0829	1,680	2,690
S-0929	W-0929	1,900	3,040
S-1029	W-1029	2,130	3,410
S-1129	W-1129	2,370	3,790
S-0736	W-0736	2,350	3,760
S-0836	W-0836	2,800	4,480
S-0936	W-0936	3,250	5,200
S-1036	W-1036	3,700	5,920
S-1136	W-1136	4,150	6,640
S-1236	W-1236	4,600	7,360

Catalogue Page A 34

AMERICAN ARCOFLAME OIL HEATING UNITS

ARCOLINER (WET BASE) ARCOFLAME OIL HEATING UNIT

UNIT NUMBER● INCLUDING ARCOFLAME OIL BURNER		INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type Water Heater			
S-O-153-B	W-O-153-B	260	420
S-O-154-B	W-O-154-B	360	580
S-O-155-B	W-O-155-B	450	720
S-O-156-B	W-O-156-B	520	835
Arranged for Biltin Taco Tank Type or Tankless Type Water Heater			
S-O-153-B-T	W-O-153-B-T	260	420
S-O-154-B-T	W-O-154-B-T	360	580
S-O-155-B-T	W-O-155-B-T	450	720
S-O-156-B-T	W-O-156-B-T	520	835

NOTE: Arcoliner (Wet Base) Oil Heating Units are now equipped with Model CF-7 Arcoflame Oil Burner.

Catalogue Page A 35

SEVERN ARCOFLAME OIL HEATING UNIT

UNIT NUMBER● INCLUDING ARCOFLAME OIL BURNER		INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type Water Heater			
S-17-OB	W-17-OB	400	640
S-21-OB	W-21-OB	460	740
S-25-OB	W-25-OB	520	830
S-29-OB	W-29-OB	600	960
S-33-OB	W-33-OB	690	1,100
S-37-OB	W-37-OB	780	1,250
Arranged for Biltin Taco Tank Type or Tankless Type Water Heater			
S-17-OB-T	W-17-OB-T	400	640
S-21-OB-T	W-21-OB-T	460	740
S-25-OB-T	W-25-OB-T	520	830
S-29-OB-T	W-29-OB-T	600	960
S-33-OB-T	W-33-OB-T	690	1,100
S-37-OB-T	W-37-OB-T	780	1,250

Catalogue Page A 36

OAKMONT ARCOFLAME OIL HEATING UNIT

UNIT NUMBER● INCLUDING ARCOFLAME OIL BURNER		INSTALLED RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type or Tankless Type Water Heater			
†S-84-OB	†W-84-OB	390	625
†S-85-OB	†W-85-OB	480	770
S-86-OB	W-86-OB	560	895
S-87-OB	W-87-OB	640	1,025
S-88-OB	W-88-OB	730	1,170
S-89-OB	W-89-OB	810	1,295

†Crown Sheet Baffles are regular equipment although not shown in catalogue.

▲For definition of "Installed Radiation" see Catalogue Page A 68.
●See Page 6 this pamphlet for complete information on Arcoflame Oil Burners and Standard Control Sets.
For explanation of Biltin Taco Water Heater Capacities see Catalogue Page A 69.
See General Catalogue Pages referred to for other details.

00500

Catalogue Page A 37

EXBROOK ARCOFLAME OIL HEATING UNIT

UNIT NUMBER ● INCLUDING ARCOFLAME OIL BURNER		INSTALLED ▲ RADIATION SQ. FT.	
Steam	Water	Steam	Water
Not Adapted for Biltin Taco Water Heater			
S-207-OB	W-207-OB	775	1,240
S-208-OB	W-208-OB	950	1,520
S-209-OB	W-209-OB	1,125	1,800
S-2010-OB	W-2010-OB	1,300	2,080
S-2011-OB	W-2011-OB	1,475	2,360
S-2012-OB	W-2012-OB	1,650	2,640
Arranged for Biltin Taco Tank Type or Tankless Type Water Heater			
S-207-OB-T	W-207-OB-T	775	1,240
S-208-OB-T	W-208-OB-T	950	1,520
S-209-OB-T	W-209-OB-T	1,125	1,800
S-2010-OB-T	W-2010-OB-T	1,300	2,080
S-2011-OB-T	W-2011-OB-T	1,475	2,360
S-2012-OB-T	W-2012-OB-T	1,650	2,640

AMERICAN BOILERS
STOKER FIRED
STEAM OR WATER

Catalogue Page A 46 and A 47

SEVERN STOKER BOILER

BOILER NUMBER		INSTALLED ▲ RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type Water Heater			
SC-17	WC-17	400	640
SC-21	WC-21	460	740
SC-25	WC-25	520	830
SC-29	WC-29	600	960
SC-33	WC-33	690	1,100
SC-37	WC-37	780	1,250
Arranged for Biltin Taco Tank Type Water Heater			
SC-17-T	WC-17-T	400	640
SC-21-T	WC-21-T	460	740
SC-25-T	WC-25-T	520	830
SC-29-T	WC-29-T	600	960
SC-33-T	WC-33-T	690	1,100
SC-37-T	WC-37-T	780	1,250

Catalogue Page A 48 and A 49

EXBROOK STOKER BOILER

BOILER NUMBER		INSTALLED ▲ RADIATION SQ. FT.	
Steam	Water	Steam	Water
Not Adapted for Biltin Taco Water Heater			
SC-207	WC-207	775	1,240
SC-208	WC-208	950	1,520
SC-209	WC-209	1,125	1,800
SC-2010	WC-2010	1,300	2,080
SC-2011	WC-2011	1,475	2,360
SC-2012	WC-2012	1,650	2,640

Catalogue Page A 48 and A 49

EXBROOK STOKER BOILER (Continued)

BOILER NUMBER		INSTALLED ▲ RADIATION SQ. FT.	
Steam	Water	Steam	Water
Arranged for Biltin Taco Tank Type Water Heater			
SC-207-T	WC-207-T	775	1,240
SC-208-T	WC-208-T	950	1,520
SC-209-T	WC-209-T	1,125	1,800
SC-2010-T	WC-2010-T	1,300	2,080
SC-2011-T	WC-2011-T	1,475	2,360
SC-2012-T	WC-2012-T	1,650	2,640

Catalogue Page A 50 and A 51

REDFLASH STOKER BOILER

BOILER NUMBER		INSTALLED ▲ RADIATION SQ. FT.	
Steam	Water	Steam	Water
3-SC-9	3-WC-9	1,800	2,880
3-SC-10	3-WC-10	2,100	3,360
3-SC-11	3-WC-11	2,400	3,840
3-SC-12	3-WC-12	2,700	4,320
3-SC-13	3-WC-13	3,000	4,800
3-SC-14	3-WC-14	3,300	5,280
4-SC-10	4-WC-10	3,200	5,120
4-SC-11	4-WC-11	3,600	5,760
4-SC-12	4-WC-12	4,000	6,400
4-SC-13	4-WC-13	4,400	7,040
4-SC-14	4-WC-14	4,800	7,680
5-SC-10	5-WC-10	4,500	7,200
5-SC-11	5-WC-11	5,100	8,160
5-SC-12	5-WC-12	5,700	9,120
5-SC-13	5-WC-13	6,300	10,080
5-SC-14	5-WC-14	6,900	11,040
5-SC-15	5-WC-15	7,500	12,000
5-SC-16	5-WC-16	8,100	12,960
5-SC-17	5-WC-17	8,700	13,920

Catalogue Page A 52 thru A 54

WATER TUBE STOKER BOILER

BOILER NUMBER		INSTALLED ▲ RADIATION SQ. FT.	
Steam	Water	Steam	Water
SC-29-T-5	WC-29-T-5	930	1,490
SC-29-T-6	WC-29-T-6	1,200	1,920
SC-29-T-7	WC-29-T-7	1,450	2,320
SC-29-T-8	WC-29-T-8	1,680	2,690
SC-29-T-9	WC-29-T-9	1,900	3,040
SC-29-T-10	WC-29-T-10	2,130	3,410
SC-29-T-11	WC-29-T-11	2,370	3,790
SC-29-T-12	WC-29-T-12	2,600	4,160
SC-36-T-6	WC-36-T-6	1,900	3,040
SC-36-T-7	WC-36-T-7	2,350	3,760
SC-36-T-8	WC-36-T-8	2,800	4,480
SC-36-T-9	WC-36-T-9	3,250	5,200
SC-36-T-10	WC-36-T-10	3,700	5,920
SC-36-T-11	WC-36-T-11	4,150	6,640
SC-36-T-12	WC-36-T-12	4,600	7,360

▲For definition of "Installed Radiation" see Catalogue Page A 68.
●See Page 6 this pamphlet for complete information on Arcoflame Oil Burners and Standard Control Sets.
For explanation of Biltin Taco Water Heater Capacities see Catalogue Page A 69.
See General Catalogue Pages referred to for other details.

00501

AMERICAN ARCOFLAME OIL BURNERS

FOR STEAM AND WATER BOILERS, WARM AIR FURNACES AND WINTER AIR CONDITIONERS

Catalogue Page	For use on 115 Volt, 60 Cycle Current*	
	MODEL "C"—Maximum Capacity 3.00 Gallons Oil Per Hour	MODEL "L"—Maximum Capacity 7.00 Gallons Oil Per Hour
A 38 thru A 43	C-1 —Pedestal Type— 7½" Draft Tube. C-2 —Pedestal Type—14½" Draft Tube. C-3 —Pedestal Type—22½" Draft Tube. Draft Tube Diameter—5". CF-7 —Flanged mounted for Arcoliner and Severn Arcoflame Oil Heating Units only. CF-112—Flange mounted for Oakmont Arcoflame Oil Heating Unit only.	L-1 —Pedestal Type—11½" Draft Tube. L-3 —Pedestal Type—21" Draft Tube. Draft Tube Diameter—6". LF-E—Flange mounted for Exbrook Arcoflame Oil Heating Unit only.
	*MODEL "C" also available for 25 cycle 115 volts; 50 cycle 115 volts; and 115 volts Direct Current.	*MODEL "L" also available for 25 cycle 115 volts; 50 cycle 115 volts. Not available for Direct Current.
	Arcoflame Oil Burners burn No. 1, No. 2, or No. 3 Grade Fuel Oil obtained by either the distillation or the catalytic cracking process. Regular Equipment includes a standard control set as shown below, CA-701 Arcoflame Stack Control, and Nozzle.	

STANDARD ARCOFLAME CONTROL SETS

(A Standard Arcoflame Control Set must be specified with each Arcoflame Burner)

ARCOFLAME STANDARD CONTROL SET NUMBER	CONTENTS OF CONTROL SET	
	NUMBER	INSTRUMENT
No. 11—For STEAM Boilers—WITHOUT Year-Round Domestic Hot Water.	411-CH 450-BA-1	Thermostat. Pressure Limit Control.
No. 12—For STEAM Boilers—FOR Year-Round Domestic Hot Water (Taco Heater).	411-CH 450-BA-1 653	Thermostat. Pressure Limit Control. Immersion Operating Control.
No. 13—For WATER Boilers—WITHOUT Year-Round Domestic Hot Water. Immersion Control for New Boilers.	411-CH CA-655	Thermostat. Immersion Limit Control.
No. 14—For WATER Boilers—WITHOUT Year-Round Domestic Hot Water. Clamp-on Control for existing Boilers.	411-CH 251-MJ	Thermostat. Clamp-on Limit Control.
No. 15—For WATER Boilers—FOR Year-Round Domestic Hot Water (Taco Heater), using Circulator.	411-CH CA-655 653 CA-295	Thermostat. Immersion Limit Control. Immersion Operating Control. Relay Transformer.
No. 16—For WATER Boilers—FOR Year-Round Domestic Hot Water (Tankless Taco Heater), using Circulator.	411-CH CA-655 653 CA-655-R CA-295	Thermostat. Immersion Limit Control. Immersion Operating Control. Reverse Acting Low Limit Control. Relay Transformer.
No. 19—For WARM AIR Furnaces—WITHOUT Blower.	411-CH CA-805	Thermostat. Air Limit Control.
No. 20—For FORCED WARM AIR Units—WITH Blower Control.	411-CH CA-615	Thermostat. Combination Blower and Limit Control.
VAPOR INSTALLATIONS: When No. 11 or No. 12 Arcoflame Control Sets are to be used on a Vapor System, substitute No. 450-BC-1 Vapor Limit Control for No. 450-BA-1 Pressure Limit Control.		

See General Catalogue Pages referred to for other details.

00502

AMERICAN GAS BOILER

EMPIRE GAS BOILERS

Catalogue Page	STEAM Boiler Number	STEAM A.G.A. Rating Sq. Ft.	STEAM ▲Installed Radiation Sq. Ft.	WATER Boiler Number	WATER A.G.A. Rating Sq. Ft.	WATER ▲Installed Radiation Sq. Ft.
A 55 thru A 62	0-GE-4-E	255	165			
	0-GE-5-E	340	220			
	0-GE-6-E	425	275			
				1-GA-4-E	210	135
				1-GA-5-E	280	180
				1-GA-6-E	350	225
				2-GA-4-E	420	270
				2-GA-5-E	560	360
				2-GA-6-E	700	455
				2-GA-7-E	840	550
				4-GA-8-E	980	645
				4-GA-9-E	1,120	740
				4-GA-11-E	1,400	930
				4-GA-13-E	1,680	1,125
	1-GE-4-E	810	400	1-GW-4-E	980	640
	1-GE-5-E	775	515	1-GW-5-E	1,240	825
	1-GE-6-E	940	630	1-GW-6-E	1,500	1,010
	1-GE-7-E	1,105	745	1-GW-7-E	1,770	1,190
	1-GE-8-E	1,270	860	1-GW-8-E	2,030	1,375
	1-GE-9-E	1,435	980	1-GW-9-E	2,300	1,565
	1-GE-10-E	1,600	1,100	1-GW-10-E	2,560	1,760

STANDARD GAS BOILERS

A 55 thru A 62	STEAM Boiler Number	STEAM A.G.A. Rating Sq. Ft.	STEAM ▲Installed Radiation Sq. Ft.	WATER Boiler Number	WATER A.G.A. Rating Sq. Ft.	WATER ▲Installed Radiation Sq. Ft.
				1-GA-4	210	135
				1-GA-5	280	180
				1-GA-6	350	225
				2-GA-4	420	270
				2-GA-5	560	360
				2-GA-6	700	455
				2-GA-7	840	550
				4-GA-9	1,120	740
				4-GA-11	1,400	930
				4-GA-13	1,680	1,125
	1-GS-4	610	400	1-GW-4	980	640
	1-GS-5	775	515	1-GW-5	1,240	825
	1-GS-6	940	630	1-GW-6	1,500	1,010
	1-GS-7	1,105	745	1-GW-7	1,770	1,190
	1-GS-8	1,270	860	1-GW-8	2,030	1,375
	1-GS-9	1,435	980	1-GW-9	2,300	1,565
	1-GS-10	1,600	1,100	1-GW-10	2,560	1,760
	1-GS-11	1,765	1,215	1-GW-11	2,820	1,945
	4-GS-6	2,000	1,390	4-GW-6	3,200	2,225
	4-GS-7	2,400	1,690	4-GW-7	3,840	2,705
	4-GS-8	2,800	1,995	4-GW-8	4,480	3,190
	4-GS-9	3,200	2,300	4-GW-9	5,120	3,685
	4-GS-10	3,600	2,610	4-GW-10	5,760	4,180
	4-GS-11	4,000	2,925	4-GW-11	6,400	4,680
	4-GS-13	4,800	3,570	4-GW-13	7,680	5,710
	4-GS-15	5,600	4,230	4-GW-15	8,960	6,770
	4-GS-17	6,400	4,900	4-GW-17	10,240	7,840
	4-GS-19	7,200	5,560	4-GW-19	11,520	8,910
	4-GS-21	8,000	6,210	4-GW-21	12,800	9,930
	4-GS-22	8,400	6,520	4-GW-22	13,440	10,430
	4-GS-25	9,600	7,450	4-GW-25	15,360	11,920
	4-GS-28	10,800	8,380	4-GW-28	17,280	13,410
	4-GS-31	12,000	9,320	4-GW-31	19,200	14,910
	4-GS-33	12,800	9,940	4-GW-33	20,480	15,900
	4-GS-37	14,400	11,180	4-GW-37	23,040	17,880
	4-GS-41	16,000	12,420	4-GW-41	25,600	19,860

▲For definition of "Installed Radiation" see Catalogue Page A 68.
See General Catalogue Pages referred to for other details.

00503

Catalogue Page A 63

AMERICAN GAS CONVERTOR

Convertor No.	A.G.A. Maximum Input Btu Rating per Hour	Installed Radiation—Sq. Ft. Steam	Installed Radiation—Sq. Ft. Water	‡Werm Air Output at Bonnet Btu per Hour
13-A	150,000	300	480	115,000
15-A	180,000	370	590	135,000
19-A	240,000	500	800	180,000
23-A	360,000	750	1,200	270,000

‡For Winter Air Conditioners. For gravity furnaces reduce outputs 6%.

A 65 thru A 69 — **All data and information is correct. Biltin Taco Water Heaters and Boiler Trimmings and sundries are available as shown.**

A 71

BUDGET GAS FIRED AUTOMATIC STORAGE WATER HEATER

Heater No.	Capacity Gallons	Btu Input	Recovery Gallons per Hour—60° Rise
For Manufactured, Mixed or Natural Gas			
204-S	20	20,000	28.0
304-S	30	26,000	36 4
404-S	40	30,000	42.0
For Liquefied Petroleum Gas			
204-S	20	19,000	26.6
304-S	30	26,000	36 4
404-S	40	30,000	42 0
For Butane-Air Gas—525 Btu, 1.16 Sp. Gr.			
204-S	20	19,000	26 6
304-S	30	26,000	36 4
404-S	40	21,000	29.4

High altitude (2,000-5,000 feet) rating for No. 304-S for use with Manufactured, Mixed, Natural and Liquefied Petroleum Gases, including Butane-Air (525 Btu. 1.16 Sp. Gr.) — 24,000 Btu Input. Recovery gallons per hour, 60° Rise, 33.6.

Ratings shown for Nos. 204-S and 404-S are for sea level. Reduce at rate of 5% for each 1,000 feet above sea level.

A 73 and A 74

AMERICAN GAS BOILERS FOR HOT WATER SUPPLY
INDIRECT TYPE AUTOMATIC HOT WATER STORAGE SYSTEMS

Steam Boiler Number	Capacity Maximum Day Gals. 100°F. Rise	Rating Gallons Water per Hour 60° Rise	80° Rise	100° Rise
0-GS-4-E	1060	125	90	75
0-GS-5-E	1410	165	125	100
0-GS-6-E	1760	205	155	125
1-GS-4	2540	290	220	175
1-GS-5	3260	370	280	225
1-GS-6	3900	450	340	270
1-GS-7	4640	530	400	320
1-GS-8	5300	610	460	365
1-GS-9	6000	690	520	415
1-GS-10	6660	770	575	460
1-GS-11	7400	850	635	510

Catalogue Page A 72 and A 74

AMERICAN GAS BOILERS FOR HOT WATER SUPPLY (Continued)
DIRECT TYPE AUTOMATIC HOT WATER STORAGE SYSTEMS

Water Boiler Number	Capacity Maximum Day Gals. 100°F. Rise	Rating Gallons Water per Hour 60° Rise	80° Rise	100° Rise
1-GA-4	550	63	47	38
1-GA-5	725	84	63	50
1-GA-6	915	105	79	63
2-GA-4	1100	126	95	76
2-GA-5	1460	168	126	101
2-GA-6	1830	210	158	126
2-GA-7	2190	252	189	151
4-GA-9	2920	336	252	202
4-GA-11	3660	420	316	252
4-GA-13	4380	504	378	302

A 75

IDEAL DOME TYPE WATER HEATERS

Heater Number	Nominal Capacity Gallons
*80	80
†95	95
†125	125
*150	150
*210	210
**250	250
**300	300
**400	400

*Fire Brick furnished with these heaters at no extra charge.
†Fire Brick furnished at extra charge.
**Fire Brick not available with these heaters.

A 76

IDEAL SCUTTLE-A-DAY WATER HEATERS

Heater Number	Nominal Capacity Gallons
75-F	75
110-F	110
175-F	175

Fire Brick furnished with above heaters at no extra charge.
Base Plates and Legs furnished at extra cost.

AMERICAN HEATING ACCESSORIES

All Accessories on these pages are currently in our line.

A 79 thru A 101 — **Items no longer available and new items added to our line are listed with proper page reference below. Please correct your catalogue.**

• • •

A 80 — No. 475 Packless Convector Gate Valve has been discontinued in all sizes.

A 82 — No. 375 Packed Convector Gate Valve has been discontinued in all sizes.

A 83 — No. 216 Circulator Valve is now available in these sizes: ⅜", ½", ¾".

A 83 — No. 217 Circulator Valve is now available in these sizes: ⅜", ½", ¾".

00504

Catalogue Page

AMERICAN HEATING ACCESSORIES (Continued)

A 84 — No. 233 Balancing Elbow is now available in these sizes: ⅜", ½", ¾".

A 84 — No. 234 Balancing Fitting is now available in these sizes: ⅜", ½", ¾".

A 86 — Illustration shown as 861 Hurivent is actually 862 Vac-Hurivent.

A 88 — No. 295 Relay Transformer has been replaced by CA-295.

CA-295 RELAY TRANSFORMER

Combines a Step-down Transformer and Low Voltage Relay which operates two separate and isolated pairs of contacts. One set handles line voltage for control of a hot water circulator, blower, etc., and the other set closes an external low voltage circuit to start an Oil Burner, Stoker, Gas Burner, etc., simultaneously with the circulator or blower. For use with 411 Thermostat, or any 2-wire Snap Acting Thermostat. Black enamel finish.

Voltages: 115 V., 50 or 60 cycles
115 V., 25 cycles
230 V., 50 or 60 cycles
230 V., 25 cycles

A 94 — Taco Type "A" Adjustable Tempering Valve in ½" and ¾" sizes now available. Valve is adjustable from 120°F. to 180°F.

A 95 — Taco Type "T" Adjustable Tempering Valve in 1", 1¼" and 2" sizes now available. Valve is adjustable from 130°F. to 200°F.

Taco—Venturi Fitting—add the following:
Cast Iron—¾" x ½" and 1" x ¾"
Bronze —¾" x ½"

A 96 — Taco Expansion Tanks are not available.

No. 1-H Taco Flow Check—Bronze—Horizontal body now available. Dimension "A"—1 11/16"; Dimension "B"—3¼".

Taco-matic Valve now available in 1¼" and 1½" sizes with iron body.

Taco Paneltrol for Panel Heating Systems is now available in 1½" size.

A 97 — No. 90-T Thrush High Pressure and Temperature Relief Valve is not available.

A 99 — Bell & Gossett No. 8 Compression Tank, 8 gallon capacity for systems up to 250 sq. ft. of radiation is now available. Tank Dimensions —9" x 30".

AMERICAN RADIATORS

SQUARE FEET PER SECTION

ARCO RADIATORS

A 103 thru A 105

Height, Inches	3 Tube	4 Tube	5 Tube	6 Tube
32	...	...	...	3.7
25	1.6	2.0	2.4	3.0
22	...	1.8	2.1	...
19	...	1.6	...	2.3

SUNRAD RADIATORS

A 106 thru A 110 — 20" Height x 5" width—2 sq. ft. per section
23" Height x 7½" width—3 sq. ft. per section
Stamped Lattice Type Inlet Grilles available.

Catalogue Page

ARCO CAST IRON CONVECTORS

A 111 and A 112 — The Arco Convector is available in three widths: No. 5—5½"; No. 7—7½"; No. 9—9¼". Available with X-4 and Y-6 connections.

A 113 and A 114 — See new Tables No. 1 and 2 of Sizes and Ratings on page 10 and 11 of this Supplement.

ARCO MULTIFIN CONVECTORS

—SPECIAL SERVICE LINE—

A 115 to A 117 — The Arco Multifin Convector is available in four widths: No. 3—3½"; No. 5—5½"; No. 7—7½"; No. 10—10½".
Rating Tables are correct as shown. Disregard Table for No. 14 which has been discontinued.

—STOCK MODEL—

For Gravity or Forced Hot Water only and with "NFS" Enclosures only.

All Units in Rating Tables on Catalogue Page 116 marked "▲" are stock models, available for Gravity or Forced Hot Water and are furnished only with X-4 connections.
Note following Exceptions and Additions:
Unit No. 736 is now a stock model.
Special Chain Type Dampers are available.
Special Air Chambers are available.
MBH Ratings at various hot water temperatures are listed in current Stock Model Literature.

AMERICAN ENCLOSURES

—SPECIAL SERVICE LINE—

A 118 thru A 122 — NFS (Complete Enclosure)—For all Convectors.
PF (Plaster Front)—For Arco Multifin Convectors only.
W (Wall Hung—Flat Top)—For all Convectors.
SW (Wall Hung—Sloping Top)—For all Convectors.
OF (Overlap Front)—For all Convectors.
FC (Flanged Front)—For Arco Cast Iron Convectors only.
FP (Flush Front)—For Arco Cast Iron Convector only.

PEERLESS WALL RADIATORS

A 123 and A 124 — Type 8-B— 8 sq. ft. per section.
Type 11-B—11 sq. ft. per section.

BASEBOARD RADIANT PANELS

Type "RC" Radiant Convector Panels—2.08 Sq. Ft. per Lineal Foot.
Type "R" Radiant Panels—1.25 Sq. Ft. per Lineal Foot.
Available in the following lengths:
24" Left Hand End Panel.
24" Right Hand End Panel.
12" Right Hand End Panel.
24" Center Panel.
BASEBOARD RADIANT PANEL ACCESSORIES:
Valve Enclosure.
Inverted Corner Cover.
Projecting Corner Cover.
Compression Corner Connection.
Center Support Screw Leg.
Assembly Clamp.

00505

Catalogue Page	How to Determine Size of Radiators and Convectors for Hot Water Systems
A 126	Catalogue Page is correct with the following exceptions: Under "Examples" the fifth paragraph should read as follows: "For Arco Multifin Convectors on forced circulation the heat emission for 190°F. average water temperature is 174 Btu per hour per sq. ft. Dividing 6,000 by 174 gives 34.5 sq. ft. Refer to Page A-116 and select Convector, having the dimensions and enclosure height desired, as near the rating as possible." Data in Table of Heat Emissions for various average hot water temperatures applying to Arco Multifin Convectors has been revised as follows:
A 127	Arco Radiator Pedestals and Brackets. Page is correct with the exception that the 1" dimension shown on the Brackets as the distance between Wall and Radiator should read 1⅛".
A 128 thru A 130	Radiator Brackets for Sunrad and Pearless Wall Radiators are all available.

TABLE OF HEAT EMISSIONS FOR VARIOUS HOT WATER TEMPERATURES WITH ARCO MULTIFIN CONVECTORS

Average Water Temp. in Convector	Heat Emission in Btu per Sq. Ft. Catalogue Rating	
	Forced Circulation 10° Temp. Drop (70° Room Temp.)	Gravity Circulation 20° Temp. Drop
230	250	216
220	230	200
215	221	192
210	211	183
200	193	167
190	174	151
180	157	135
170	139	120
160	122	106
150	104	90

CAST IRON CONVECTOR RATINGS

TABLE NO. 1

STEAM RATINGS—SQUARE FEET

BASED ON 240 BTU (STEAM—215°F.) PER SQUARE FOOT PER HOUR AND FRONT OUTLET ENCLOSURES

Enclosure Height Inches	No. 5—5⅛" Width								
	Unit No.								
	518	523	528	533	538	543	548	553	563
	Convector Length "L" Inches								
	18	23	28	33	38	43	48	53	63
20" NFS, OF, FC, FP; 16" W	13.5	17.4	21.3	25.2	29.2	33 1	37.0	40 9	48 7
24" NFS, OF, FC, FP; 20" W, SW	15.4	19.9	24.4	28.9	33.4	37.9	42.4	46 8	55.8
32" NFS, OF, FC, FP; 28" W, SW	17.5	22 6	27.7	32.9	38.0	43.1	48.1	53.1	63.5

Enclosure Height Inches	No. 7—7⅛" Width							No. 9—9⅛" Width					
	Unit No.							Unit No.					
	728	733	738	743	748	753	763	933	938	943	948	953	963
	Convector Length "L" Inches							Convector Length "L" Inches					
	28	33	38	43	48	53	63	33	38	43	48	53	63
20" NFS, OF, FC, FP; 16" W	27.2	32.2	37.2	42.3	47.3	52.3	62.3	38.9	45.0	51.1	57.2	63 3	75 5
24" NFS, OF, FC, FP; 20" W, SW	30.7	36.4	42.1	47.8	53.5	59 2	70.6	44.2	51.1	58.0	64.9	71.8	85.6
32" NFS, OF, FC, FP; 28" W, SW	35.7	42.3	48.9	55.5	62.0	68.6	81.8	51.4	59.5	67.5	75.6	83.6	99 7

For Sizing Standardized Arco Cast Iron Convectors for Steam use the following Simple Formula:

After calculating the heat loss of the room in Btu's, using a recognized and approved method, it is only necessary to divide the Btu heat loss by 240 to obtain the Equivalent Direct Radiation (EDR) and select proper size convector from Steam Rating Columns in above table. For example: Assuming 6,000 Btu per hour as the heat loss of the room and 20" to 24" available enclosure height. 6,000 ÷ 240 = 25.0 sq. ft. EDR. Referring to Steam Rating Columns in table we find—Unit No. 533 = 25.2 sq. ft. (20" Enc. Height), Unit No. 528 = 24.4 sq. ft. (24" Enc. Height).

00506

TABLE NO. 2

HOT WATER (GRAVITY OR FORCED CIRCULATION) CAPACITIES EXPRESSED IN MBH (THOUSAND BTU PER HOUR) BASED ON AVERAGE WATER TEMPERATURES SHOWN

Enclosure Height Inches	* Av. Water Temp. in Conv.	No. 5—5½" Width								
		Unit No.								
		518	523	528	533	538	543	548	553	563
		Convector Length "L" Inches								
		18	23	28	33	38	43	48	53	63
20" NFS, OF,FC,FP 16" W	215	3.1	4.0	4.9	5.8	6.7	7.6	8.5	9.4	11.2
	210	3.0	3.8	4.7	5.5	6.4	7.2	8.1	9.0	10.7
	200	2.7	3.5	4.3	5.0	5.8	6.6	7.4	8.2	9.8
	190	2.5	3.2	3.9	4.6	5.3	6.0	6.7	7.5	8.9
	180	2.2	2.9	3.5	4.1	4.8	5.4	6.1	6.7	8.0
	170	2.0	2.5	3.1	3.6	4.2	4.8	5.4	5.9	7.1
	160	1.7	2.2	2.7	3.2	3.7	4.2	4.7	5.2	6.1
	150	1.5	1.9	2.3	2.7	3.2	3.6	4.0	4.5	5.3
24" NFS, OF,FC,FP 20" W, SW	215	3.5	4.6	5.7	6.6	7.7	8.7	9.7	10.7	12.8
	210	3.4	4.4	5.3	6.3	7.3	8.3	9.3	10.3	12.2
	200	3.1	3.9	4.8	5.7	6.7	7.5	8.5	9.4	11.2
	190	2.8	3.6	4.4	5.3	6.1	6.9	7.7	8.5	10.2
	180	2.5	3.3	4.0	4.7	5.5	6.2	7.0	7.7	9.2
	170	2.2	2.9	3.5	4.2	4.8	5.5	6.2	6.8	8.1
	160	1.9	2.5	3.1	3.6	4.2	4.8	5.3	5.9	7.0
	150	1.7	2.2	2.7	3.2	3.6	4.1	4.6	5.1	6.1
32" NFS, OF,FC,FP 28" W, SW	215	4.0	5.2	6.3	7.5	8.7	9.9	11.0	12.2	14.5
	210	3.8	4.9	6.1	7.2	8.3	9.4	10.5	11.7	13.9
	200	3.5	4.5	5.5	6.6	7.6	8.6	9.6	10.7	12.7
	190	3.2	4.1	5.0	6.0	6.9	7.8	8.6	9.7	11.6
	180	2.9	3.7	4.5	5.4	6.2	7.1	7.9	8.7	10.4
	170	2.5	3.3	4.0	4.8	5.5	6.2	7.0	7.7	9.2
	160	2.2	2.9	3.5	4.1	4.8	5.4	6.1	6.7	8.0
	150	1.9	2.5	3.0	3.6	4.1	4.7	5.2	5.8	6.9

Enclosure Height Inches	* Av. Water Temp. in Conv.	No. 7—7½" Width							No. 9—9½" Width					
		Unit No.							Unit No.					
		728	733	738	743	748	753	763	933	938	943	948	953	963
		Convector Length "L" Inches							Convector Length "L" Inches					
		28	33	38	43	48	53	63	33	38	43	48	53	63
20" NFS, OF,FC,FP 16" W	215	6.2	7.4	8.5	9.7	10.8	12.0	14.3	8.9	10.3	11.7	13.1	14.5	17.3
	210	6.0	7.1	8.1	9.3	10.4	11.5	13.6	8.5	9.9	11.2	12.5	13.9	16.5
	200	5.4	6.4	7.4	8.5	9.5	10.5	12.5	7.6	9.0	10.2	11.4	12.7	15.2
	190	4.9	5.8	6.8	7.7	8.6	9.5	11.3	7.1	8.2	9.3	10.4	11.5	13.8
	180	4.5	5.3	6.1	6.9	7.8	8.6	10.2	6.4	7.4	8.4	9.4	10.4	12.4
	170	3.9	4.7	5.4	6.1	6.7	7.7	9.0	5.6	6.5	7.4	8.3	9.2	10.9
	160	3.4	4.1	4.7	5.3	6.0	6.6	7.8	4.9	5.7	6.4	7.2	8.0	9.5
	150	3.0	3.5	4.1	4.6	5.2	5.7	6.8	4.2	4.9	5.6	6.2	6.9	8.2
24" NFS, OF,FC,FP 20" W, SW	215	7.0	8.3	9.6	10.9	12.2	13.5	16.2	10.1	11.7	13.3	14.8	16.4	19.6
	210	6.7	8.0	9.2	10.5	11.7	13.0	15.5	9.7	11.2	12.7	14.2	15.7	18.7
	200	6.2	7.3	8.4	9.6	10.7	11.8	14.1	8.8	10.2	11.6	12.9	14.4	17.1
	190	5.6	6.6	7.7	8.7	9.7	10.7	12.9	8.0	9.3	10.6	11.8	13.0	15.6
	180	5.0	6.0	6.9	7.8	8.8	9.7	11.6	7.2	8.4	9.5	10.6	11.8	14.1
	170	4.5	5.3	6.1	6.9	7.8	8.6	10.2	6.4	7.4	8.4	9.4	10.4	12.4
	160	3.9	4.6	5.3	6.0	6.7	7.5	8.9	5.6	6.4	7.3	8.2	9.1	10.8
	150	3.4	4.0	4.6	5.2	5.8	6.4	7.6	4.8	5.6	6.3	7.1	7.8	9.3
32" NFS, OF,FC,FP 28" W SW	215	8.2	9.7	11.2	12.7	14.2	15.7	18.7	11.8	13.6	15.5	17.3	19.1	22.8
	210	7.8	9.2	10.7	12.1	13.6	15.0	17.9	11.2	13.0	14.8	16.5	18.3	21.8
	200	7.1	8.4	9.8	11.1	12.4	13.7	16.4	10.3	11.9	13.5	15.1	16.7	19.9
	190	6.5	7.7	8.9	10.1	11.3	12.5	14.9	9.4	10.9	12.3	13.8	15.3	18.2
	180	5.9	6.9	8.0	9.1	10.2	11.2	13.4	8.4	9.8	11.1	12.4	13.7	16.3
	170	5.2	6.1	7.1	8.1	9.0	9.9	11.9	7.3	8.6	9.6	11.0	12.1	14.4
	160	4.5	5.3	6.2	7.0	7.8	8.6	10.3	6.5	7.5	8.5	9.5	10.5	12.5
	150	3.9	4.6	5.3	6.0	6.8	7.5	8.9	5.6	6.5	7.4	8.2	9.1	10.8

For Sizing Standardized Area Cast Iron Convectors for Hot Water use the following Simple Formula:

Calculate heat loss of the room in Btu's, same as outlined for steam. Divide heat loss by 1,000 to determine MBH (thousand Btu per hour). Then, in Rating Tables above, locate the required MBH for the average water temperature desired and determine Convector from Unit No. listing at top (in line with MBH selected)—keeping in mind the width and Enclosure height required. For example: Assuming 6,000 Btu (or 6.0 MBH) per hour as the heat loss of the room and average water temperature in Convector 190° with 20" to 24" available Enclosure Height. Referring to Rating Tables above, in 190° line, we find—Unit No. 543 = 6.0 MBH (20" Enc. Height), Unit No. 538 = 6.1 MBH (24" Enc. Height).

* Average Water Temperature in Convector	215	210	200	190	180	170	160	150
Heat Emission in Btu per Sq. Ft.	229	219	200	182	164	145	126	109

00507

Form No. 715 100M 7/48 H&H