

A.I.A. FILE No. 30-C-1
(September, 1949)

OIL FIRED

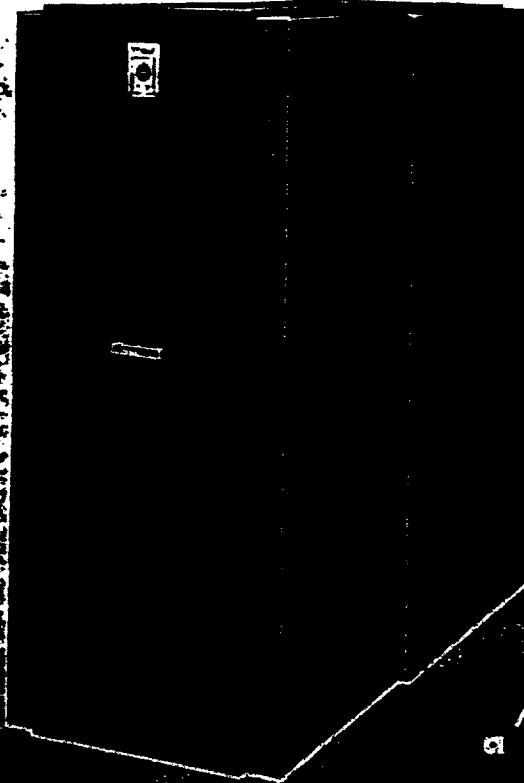
ARCOLINER

wet base

BOILER

by

American-Standard



AMERICAN-Standard

First in heating . . . first in plumbing

a superior
oil boiler
for smaller
homes . . . with
or without
basements

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PLAINTIFF'S EXHIBIT

ASI-965

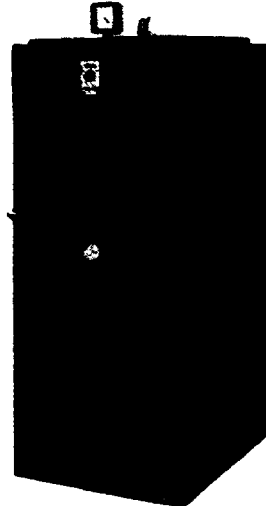
ARCOLINER *wet base* BOILER... OIL FIRED.

► The new ARCOLINER *wet base* BOILER is a masterpiece developed by the engineers at AMERICAN-Standard, the best-known name in plumbing. A moderately priced, efficient and general purpose real investment in good heating. The Arcoliner offers owners and builders of small to medium homes the advantages of clean, carefree, efficient heating. Tested scientific and practical

features are combined in this boiler to give you dollar-saving heating comfort and the convenience of year-round domestic hot water. Its smart styling lends distinction to any basement recreation room. And its trim, compact design makes it ideal for first floor utility rooms, too. Study its outstanding features and see why the Arcoliner is a better buy for your home.

Features that make the Arcoliner a Wet Base Oil Fired Boiler are: 1. The extra depth of the boiler body is covered.

2. The extra depth of the boiler body is covered by a Water Jacket. 3. The extra depth of the boiler body is covered by a Water Jacket. 4. The extra depth of the boiler body is covered by a Water Jacket.



SMARTLY STYLED

A durable, attractively finished metal jacket adds a colorful touch to room surroundings in either basement or first floor installation. A moderate cost metal jacket may be added to suit a room's color scheme or wood paneling and decorative scheme.

TWO PASS FLUES

Hot gases of combustion pass twice through the boiler and water tube surfaces developed by the flue design. This feature contributes to the Arcoliner's excellent economy performance.

WET BASE CONSTRUCTION

Water jacket extends to water tube chamber adding effective heat exchange surface. The water jacket also accelerates circulation of water through the boiler. The water jacket surface is made of heavy metal and is covered by a Water Jacket. The water jacket surface is made of heavy metal and is covered by a Water Jacket.

EFFECTIVE INSULATION

The Arcoliner is insulated with a special insulation material that saves fuel and reduces noise.

ALL YEAR HOT WATER

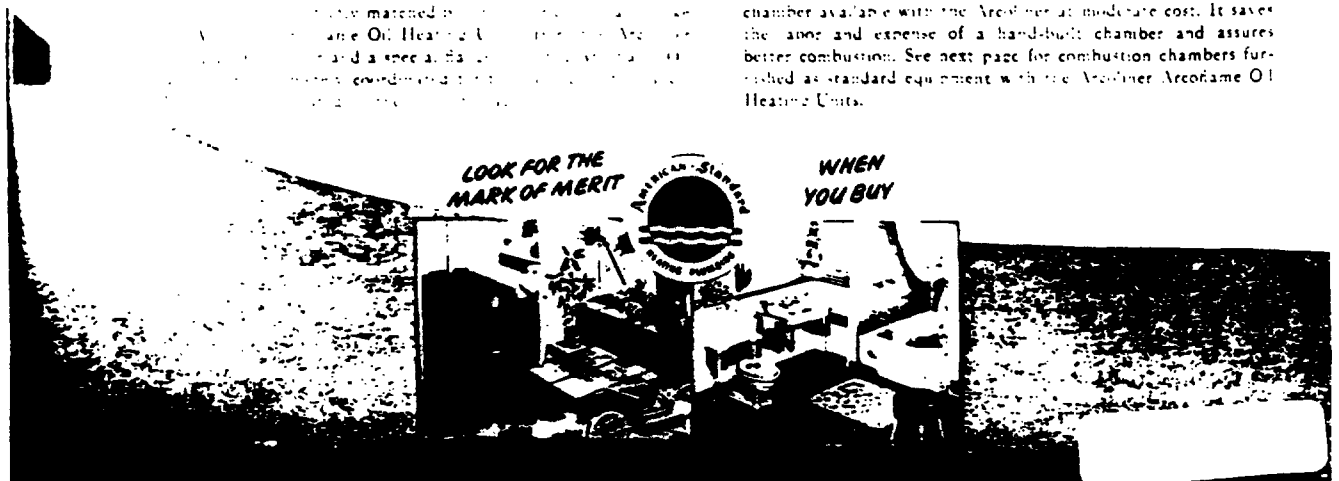
An extra tank of water can be connected with a Bilton Tankless Type Water Heater, which automatically provides hot water both winter and summer. The tankless heater requires no separate storage tank.

COMPLETE OIL HEATING UNIT

The Arcoliner is a complete oil heating unit. It includes a burner, a pump, a control valve, and a safety valve. It is designed to be installed in a basement or first floor. It is a complete oil heating unit. It includes a burner, a pump, a control valve, and a safety valve. It is designed to be installed in a basement or first floor.

HEAT LIB-O-RATOR

The Heat Lib-O-Rator is a faceremolded refractory combustion chamber available with the Arcoliner at moderate cost. It saves the labor and expense of a hand-built chamber and assures better combustion. See next page for combustion chambers furnished as standard equipment with the Arcoliner Arcofame Oil Heating Units.



.. EXPERTLY ENGINEERED FOR MAXIMUM EFFICIENCY

SPECIFICATIONS

LARGE STEAM SPACE —
EXTRA LARGE NIPPLES —
 ample steaming area provides dry steam for fast, noiseless heating. Extra large top nipples extend below water line and assure balanced internal circulation also permit use of a Built-In Taco Water Heater.

STEADY, HEAT PROTECTED
DOORS — of heavy construction with cast iron baffle linings to prevent warping and heat loss.

TWO-PASS FLUES — with multi-finned water tube surfaces. Offer maximum surface for extracting extra heat units from hot gases.

UNDER-DOOR FLUES — for extra heat transfer from flue gases to room.

AMERICAN HEAT LIB-O-RATOR
 High Temperature Steel Combustion Chamber — a team to provide efficient heating. Also available with oil burner.

FLUE GAS EXTENSION — optional, moderate extra cost. Flues and pipe extend through roof and provide attractive exterior. Attractively finished main regular door and steam and door access to flue gas.

WET BASE CONSTRUCTION — waterways extend underneath fire box and provide extra heating surface and increased efficiency.

METAL JACKET — regular equipment, smartly finished to harmonize with room interiors, and thoroughly insulated to prevent heat loss.

BUILT-IN TACO WATER
HEATER — either Tank or Tankless Type Heater is available, at small extra cost, for providing year 'round hot water. Tankless Type is illustrated; requires no storage tank.

SMALL WATER CONTENT — relatively small amount of water to heat in waterways permits rapid heat transfer and quicker pick-up.

TIGHT JOINTS — where sections and doors contact other surfaces, they are machine ground to form tight joints and close fit. This prevents short circuiting of gases, uncontrolled infiltration of air and escape of odors.

COMBUSTION SPACE — EFFECTIVE HEATING SURFACE — scientifically proportioned and air tight to burn oil efficiently and without waste. Crown Sheet baffle furnished on three smaller sizes of this unit.

AMERICAN HEAT LIB-O-RATOR
HIGH TEMPERATURE STEEL COMBUSTION CHAMBER — regular equipment on 3 smaller oil heating units. On the large size the Heat Lib-O-Rator Refractory Combustion Chamber is furnished. With other oil burners the Heat Lib-O-Rator Refractory Chamber only is available at small extra cost.

NOTE: For convenience, tapings are provided for installing principal controls. A built-in McDonnell-Miller Low Water Cut-Off is optional equipment on steam boilers at extra cost. Affords automatic protection against a too low water level.

CONVENIENT PAYMENTS

The oil fired Arcoliner Wet Base Boiler, like all other American Standard products, is available for installment on an easy time payment plan through the Heating and Plumbing Finance Corporation. Your Heating Contractor will handle all details.

CONSULT YOUR CONTRACTOR

For information as to the size of the Arcoliner Boiler needed for your requirements, as well as data on cost and installation, see your Heating Contractor. He has the expert knowledge and training to give you practical advice, and he will be glad to serve you.

ARCOLINER *wet base* BOILER — by AMERICAN-Standard

RATINGS AND DATA — OIL FIRED

ARCOLINER OIL BOILER

Arranged for Bottom Type Water Heaters No. 201 or 202
Narrow Back Type Water Heaters No. 201 or 202

Boiler Number	Water	Steam	Water	Water	Water	Water	Water	Water	Water
201-1	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-2	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-3	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-4	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-5	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-6	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-7	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-8	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-9	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-10	200	420	1.2	1.0	8.8	20	1.0	8.8	20

Arranged for Bottom Type Water Heaters No. 201 or 202
Narrow Back Type Water Heaters No. 201 or 202

Arranged for Bottom Type Water Heaters No. 201 or 202
Narrow Back Type Water Heaters No. 201 or 202

ARCOLINER ARCOFLAME OIL HEATING UNIT

Arranged for Bottom Type Water Heaters No. 201 or 202
Narrow Back Type Water Heaters No. 201 or 202

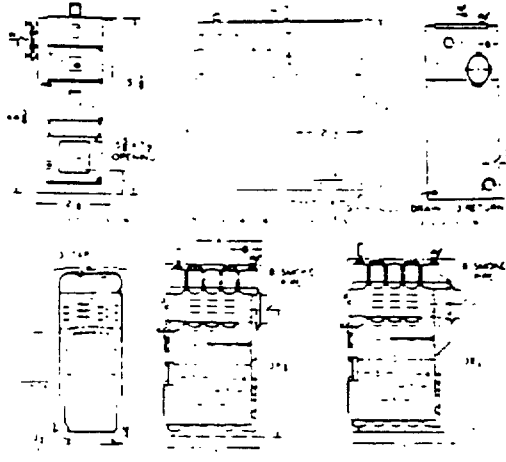
Boiler Number	Water	Steam	Water	Water	Water	Water	Water	Water	Water
201-1	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-2	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-3	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-4	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-5	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-6	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-7	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-8	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-9	200	420	1.2	1.0	8.8	20	1.0	8.8	20
201-10	200	420	1.2	1.0	8.8	20	1.0	8.8	20

Arranged for Bottom Type Water Heaters No. 201 or 202
Narrow Back Type Water Heaters No. 201 or 202

Arranged for Bottom Type Water Heaters No. 201 or 202
Narrow Back Type Water Heaters No. 201 or 202

OUTLETS — INLETS — DIMENSIONS

ALSO APPLY TO OIL HEATING UNIT



TAPPINGS AND DIMENSIONS

ALSO APPLY TO OIL HEATING UNIT

NARROW BACK Arranged for Bottom Type Water Heaters No. 201 or 202

Boiler Number	Number and Size of Tappings Inches		Dimensions — Steam or Water Inches				
						I.	M.
	Front	Back	A	B	D	With Jacket Extension	With Jacket Extension
201-1	1-1	1-1		9	12 1/2	16 1/2	37 1/2
201-2	1-1	1-1		9	12 1/2	16 1/2	37 1/2
201-3	2-1	1-1	1 1/2	9	12 1/2	16 1/2	37 1/2
201-6	2-1	1-1	2 1/2	9	23 1/2	31 1/2	52 1/2

WIDE BACK Arranged for Bottom Type Water Heaters No. 201 or 202

Boiler Number	Number and Size of Tappings		Dimensions — Steam or Water Inches				
	Front	Back	Jacket				With Jacket Extension
			A	B	D	At Jacket Exit	
201-1	1.1	1.1	1.1	1.1	1.1	20	40.9
201-2	1.1	1.1	1.1	1.1	1.1	25	45.9
201-3	1.1	1.1	1.1	1.1	1.1	40	50.9
201-4	1.1	1.1	1.1	1.1	1.1	55	55.9

CONTROL APPLICATIONS (See drawings at left)

NARROW BACK			WIDE BACK		
Control	Water Heater	Water Heater	Control	Water Heater	Water Heater
1	Water Heater	Water Heater	1	Water Heater	Water Heater
2	Water Heater	Water Heater	2	Water Heater	Water Heater
3	Water Heater	Water Heater	3	Water Heater	Water Heater
4	Water Heater	Water Heater	4	Water Heater	Water Heater
5	Water Heater	Water Heater	5	Water Heater	Water Heater
6	Water Heater	Water Heater	6	Water Heater	Water Heater
7	Water Heater	Water Heater	7	Water Heater	Water Heater
8	Water Heater	Water Heater	8	Water Heater	Water Heater
9	Water Heater	Water Heater	9	Water Heater	Water Heater
10	Water Heater	Water Heater	10	Water Heater	Water Heater

ASSEMBLY OF SECTIONS

NARROW BACK BOILER		WIDE BACK BOILER	
Boiler Number	Arrangement of Sections	Boiler Number	Arrangement of Sections
201-1	W-F-W-N-B	201-1	W-F-W-N-B
201-2	W-F-W-N-B	201-2	W-F-W-N-B
201-3	W-F-W-N-B	201-3	W-F-W-N-B
201-4	W-F-W-N-B	201-4	W-F-W-N-B
201-5	W-F-W-N-B	201-5	W-F-W-N-B
201-6	W-F-W-N-B	201-6	W-F-W-N-B
201-7	W-F-W-N-B	201-7	W-F-W-N-B
201-8	W-F-W-N-B	201-8	W-F-W-N-B
201-9	W-F-W-N-B	201-9	W-F-W-N-B
201-10	W-F-W-N-B	201-10	W-F-W-N-B

Legend: W-F-W = Front Section, W-F-W = Center Section, W-F-W = Oil Gauge Connecting Section, N-B = End Back Section
N-B = End Back Section for Flanged Water Heater

AMERICAN-Standard

Boiler

Boiler

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Boiler

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CORPORATION
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