

ALTA, FEB. 20-C
(September, 1949)

OIL FIRED

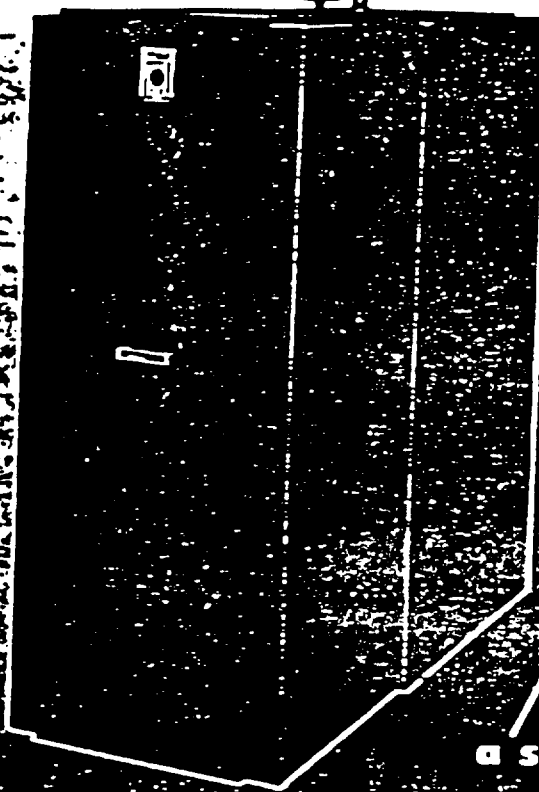
ARCOLINER

wet base BOILER

PLAINTIFF'S EXHIBIT

ASI-196

by
American-Standard



a superior
oil boiler

for smaller

homes... with

or without

basements

AMERICAN-Standard

First in heating... first in plumbing

1348

22

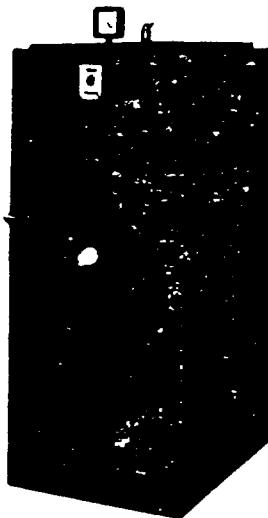
wet
base

The Architects, first owners and builders of small to medium-sized homes the advantages of clean, carefree, safe, healthy, heating. Tested scientific and practical

[illegible]

Aluminum provides excellent insulation between the bush metal and the shaft. It also prevents excessive heat, and saves fuel, and

The following are the names of the oil
 companies that have been granted permits to
 drill for oil in the area of the proposed
 oil field. The names of the companies are
 listed in alphabetical order. The names of
 the companies are:



SMARTLY STYLED

TWO PASS FLUES

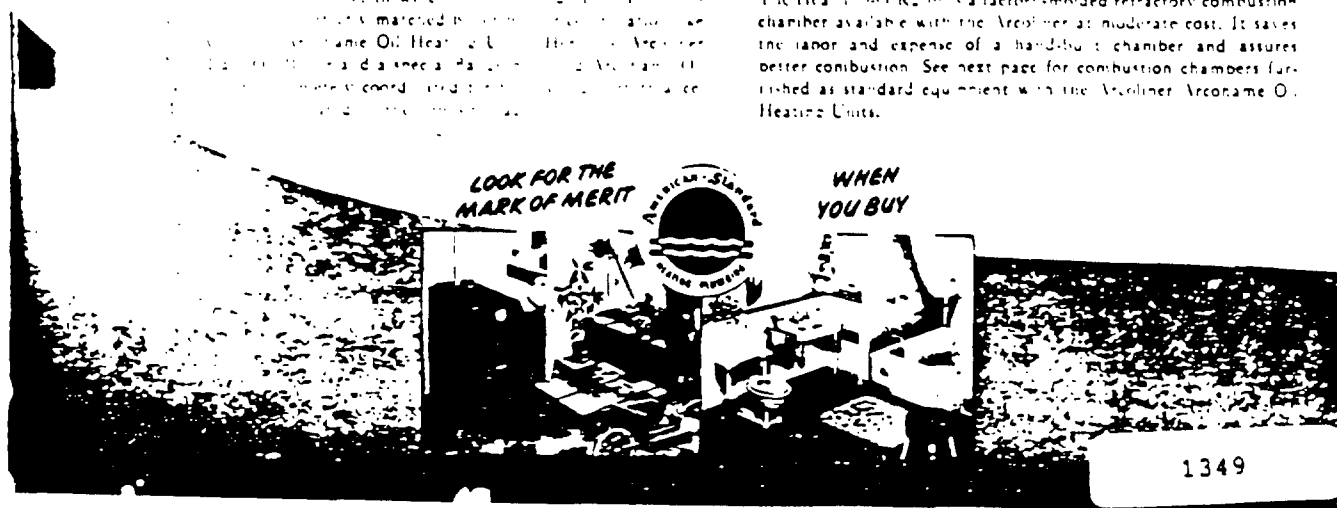
WET BASE CONSTRUCTION

ALL YEAR HOT WATER

At night, extra hot water for the Arcoflex can be obtained with a Britton Taco Tank or Tankless Type Water Heater, which automatically provides hot water both winter and summer. The tankless heater requires no separate storage tank.

HEAT LIB-O-RATOR

The Hea-1 with Ramjet is a factory-molded refractory combustion chamber available with the Avcofliner 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 Avcofliner Arcname 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 iron nipples extend below water line and assure balanced internal circulation also permit use of a Built-In Taco Water Heater.

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

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

OBSERVATION GLASS — for checking water level without opening door.

AMERICAN OIL BURNER
— regular equipment on 3 smaller oil heating units. Built-in burner as a team to provide efficient heat. Also available with oil burner.

WATER EXTENSION — optional equipment extra cost. Extends water line to rear of unit. Attractively finished. Regular door provides access to water line.

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 line.

CONVENIENT PAYMENTS

The oil-fired Arcoliner Wet Base Boiler, like all other American Standard products, is available for modernization 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 ^{not} _{use} BOILER — by A. R. I C A N - S t a n d a r d

RATINGS AND DATA — OIL FIRED

ARCOLINER OIL BOILER

Arranged for Burner Type Tank Type Water Heater No. 101 (Heating Unit)
 (Narrow Back) (Wide Back) (Water Heater No. 101) (Heating Unit)

Boiler Number	Burner	Radiation		Gross Output BHP	Firing Rate per Hour	Chimney	
		sq. ft.	sq. ft.			Size	Height
ARCOLINER	Water	200	420	17	1.0	8 x 4	20
ARCOLINER	Water	200	420	17	1.0	8 x 4	20
ARCOLINER	Water	400	840	34	1.5	8 x 4	20
ARCOLINER	Water	400	840	34	1.5	8 x 4	20

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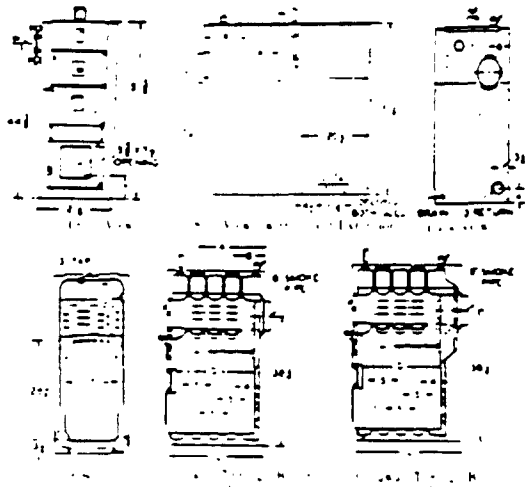
ARCOLINER ARCOFLAME OIL HEATING UNIT

Arranged for Burner Type Tank Type Water Heater No. 101 (Heating Unit)
 (Narrow Back) (Wide Back) (Water Heater No. 101) (Heating Unit)

Boiler Number	Burner	Radiation		Gross Output BHP	Firing Rate per Hour	Chimney	
		sq. ft.	sq. ft.			Size	Height
ARCOLINER	Water	200	420	17	1.0	8 x 4	20
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ARCOLINER	Water	400	840	34	1.5	8 x 4	20
ARCOLINER	Water	400	840	34	1.5	8 x 4	20

Arranged for Burner Type Tank Type Water Heater No. 101 (Heating Unit)
 (Narrow Back) (Wide Back) (Water Heater No. 101) (Heating Unit)

OUTLETS — INLETS — DIMENSIONS ALSO APPLY TO OIL HEATING UNIT



TAPPINGS AND DIMENSIONS ALSO APPLY TO OIL HEATING UNIT

NARROW BACK Arranged for Burner Type Tank Type Water Heater No. 101 (Heating Unit)

Boiler Number	Number and Size of Tappings	Dimensions — Inches			
		A	B	D	With Jacket Extension
ARCOLINER	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
ARCOLINER	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
ARCOLINER	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2
ARCOLINER	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2

WIDE BACK Arranged for Burner Type Tank Type Water Heater No. 101 (Heating Unit)

Boiler Number	Number and Size of Tappings	Dimensions — Inches			
		A	B	D	With Jacket Extension
ARCOLINER	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
ARCOLINER	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
ARCOLINER	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2
ARCOLINER	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2

CONTROL APPLICATIONS (See drawings of left)

NARROW BACK				WIDE BACK			
Location	Size	Control	Water Heater	Location	Size	Control	Water Heater
A	1-1/2	Internal Line Water	Water Limit Control	A	1-1/2	Internal Line Water	Water Limit Control
B	1-1/2	Pressure Control	Water Temperature Control	B	1-1/2	Pressure Control	Water Temperature Control
C	1-1/2	Water Temperature	Water Temperature Control	C	1-1/2	Water Temperature	Water Temperature Control
D	1-1/2	Water Temperature	Water Temperature Control	D	1-1/2	Water Temperature	Water Temperature Control
E	1-1/2	Water Temperature	Water Temperature Control	E	1-1/2	Water Temperature	Water Temperature Control
F	1-1/2	Water Temperature	Water Temperature Control	F	1-1/2	Water Temperature	Water Temperature Control
G	1-1/2	Water Temperature	Water Temperature Control	G	1-1/2	Water Temperature	Water Temperature Control
H	1-1/2	Water Temperature	Water Temperature Control	H	1-1/2	Water Temperature	Water Temperature Control
I	1-1/2	Water Temperature	Water Temperature Control	I	1-1/2	Water Temperature	Water Temperature Control
J	1-1/2	Water Temperature	Water Temperature Control	J	1-1/2	Water Temperature	Water Temperature Control
K	1-1/2	Water Temperature	Water Temperature Control	K	1-1/2	Water Temperature	Water Temperature Control
L	1-1/2	Water Temperature	Water Temperature Control	L	1-1/2	Water Temperature	Water Temperature Control
M	1-1/2	Water Temperature	Water Temperature Control	M	1-1/2	Water Temperature	Water Temperature Control
N	1-1/2	Water Temperature	Water Temperature Control	N	1-1/2	Water Temperature	Water Temperature Control
O	1-1/2	Water Temperature	Water Temperature Control	O	1-1/2	Water Temperature	Water Temperature Control
P	1-1/2	Water Temperature	Water Temperature Control	P	1-1/2	Water Temperature	Water Temperature Control
Q	1-1/2	Water Temperature	Water Temperature Control	Q	1-1/2	Water Temperature	Water Temperature Control
R	1-1/2	Water Temperature	Water Temperature Control	R	1-1/2	Water Temperature	Water Temperature Control
S	1-1/2	Water Temperature	Water Temperature Control	S	1-1/2	Water Temperature	Water Temperature Control
T	1-1/2	Water Temperature	Water Temperature Control	T	1-1/2	Water Temperature	Water Temperature Control
U	1-1/2	Water Temperature	Water Temperature Control	U	1-1/2	Water Temperature	Water Temperature Control
V	1-1/2	Water Temperature	Water Temperature Control	V	1-1/2	Water Temperature	Water Temperature Control
W	1-1/2	Water Temperature	Water Temperature Control	W	1-1/2	Water Temperature	Water Temperature Control
X	1-1/2	Water Temperature	Water Temperature Control	X	1-1/2	Water Temperature	Water Temperature Control
Y	1-1/2	Water Temperature	Water Temperature Control	Y	1-1/2	Water Temperature	Water Temperature Control
Z	1-1/2	Water Temperature	Water Temperature Control	Z	1-1/2	Water Temperature	Water Temperature Control

ASSEMBLAGE OF SECTIONS ALSO APPLIES TO OIL HEATING UNIT

NARROW BACK BOILER		WIDE BACK BOILER	
Boiler Number	Arrangement of sections	Boiler Number	Arrangement of sections
ARCOLINER	ARCOLINER	ARCOLINER	ARCOLINER
ARCOLINER	ARCOLINER	ARCOLINER	ARCOLINER
ARCOLINER	ARCOLINER	ARCOLINER	ARCOLINER
ARCOLINER	ARCOLINER	ARCOLINER	ARCOLINER

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 Water Heater and Radiator Division
 1000 North 10th Street
 Pittsburgh 10, Pa.

AMERICAN-Standard
 RADIATOR & Sanitary
 CORPORATION
 PITTSBURGH 10, PA.