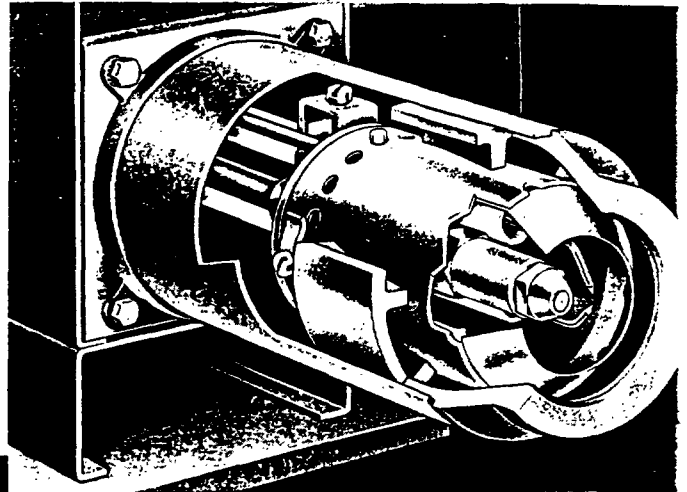
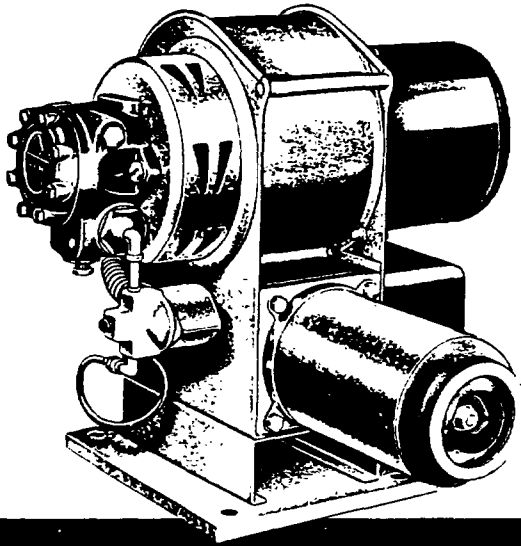


FOR TOP PERFORMANCE the new **ARCOFLAME**

model ES-2 Shell Head Oil Burner
by **AMERICAN-Standard**



- CLEAN, HIGHLY EFFICIENT OPERATION incorporates improved Shell Designed Combustion Head; burns No. 1 and No. 2 fuel oil, catalytically cracked or distillate, cleanly and completely, resulting in high operating economy—no soot, no smoke, no fumes.
- PRACTICAL SIZE RANGE 70 to 150 gph capacity provides efficient combustion with minimum excess air—in capacity range where Shell Head is in greatest demand.
- QUICK, EASY MAINTENANCE standard fuel unit, transformer, fan and motor mean quick, easy servicing.
- FAST, LOW-COST INSTALLATION modern design and sturdy lightweight steel construction mean easy handling, fast installation.
- FULLY TESTED ES-2 burner field, laboratory and factory tested to meet rigid American-Standard requirements; listed by Underwriters' Laboratories, Inc.
- THREE CONVENIENT MOUNTINGS pedestal, flange or hanger mountings adapt burner to all installations.
- CHOICE OF AIR TUBE LENGTHS 8", 15" and 23" nominal air tube lengths available for all conversion jobs; 6¾" effective tube length for American-Standard oil heating units.
- SIMPLIFIED ADJUSTMENTS externally-operated controls permit precision adjustments to be made while burner is running; easier and more accurate setting, improved flame stability.
- ATTRACTIVE APPEARANCE Forge Red and black finish, chrome trim strips and American-Standard Mark of Merit enhance burner's appearance.
- POSITIVE PERFORMANCE burner has single shaft for fuel unit, fan and motor with flexible coupling; statically and dynamically balanced fan.

**PLAINTIFF'S
EXHIBIT**

ASI-253

00070

Design Specifications

Method of Fuel Atomization—Mechanical Pressure—100 pounds.

Delayed Opening Solenoid Oil Valve—Provides smooth, clean starts and quick, clean stops. Eliminates soot deposit.

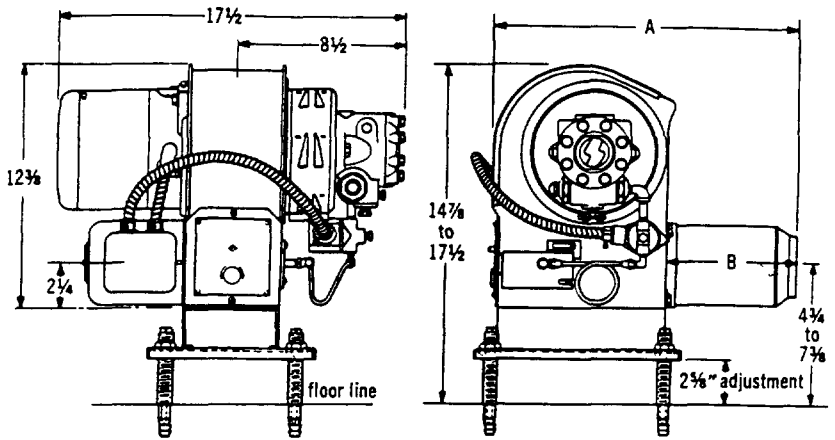
Air Supply—Low pressure with squirrel cage fan.

Nozzle—Each nozzle checked at factory for proper spray angle.

Ignition—Intermittent or constant spark.

Shell Designed Combustion Head—4-inches in diameter with cast iron end cone.

Approval—All Arcoflame Oil Burners (60 cycle, 115 volt) are listed by Underwriters' Laboratories, Inc. for No. 1 and No. 2 grades of fuel oil, distillate or catalytic cracked, and comply with Commercial Standard CS-75. They are approved by the New York City Board of Standards and Appeals, the State Fire Marshall of the Commonwealth of Massachusetts and the Department of State Police, State of Connecticut.



Dimensions
(Inches)

Model	ES-2-4	ES-2-8	ES-2-15	ES-2-23
A	15 1/2	16 1/4	23 3/4	31 1/4
B	6 1/4	8	15	23

Diameter Airtube—4"

SPECIFICATIONS MODEL ES-2

CURRENT CHARACTERISTICS	GALLONS OIL PER HOUR		MAXIMUM* INSTALLED RADIATION SQ. FT.		MOTOR	
	Minimum	Maximum	Steam	Water	hp	rpm
115 volt 60 cycle	.70	1.50	400	650	1/4	1,750

*These capacities can be used up to 1,000 feet altitude. Reduce capacities by 6% for each additional 1,000 feet.

ARCOFLAME Standard Control Sets

NOZZLES AND STRAINERS

When ordering nozzles, be sure to specify Hollow Cone Nozzle and size desired.

GAL. PER HR.	SPRAY ANGLE	GAL. PER HR.	SPRAY ANG
.75	80°	1.25	80°
.85	80°	1.35	80°
1.00	80°	1.50	80°
1.10	80°		

New Arcoflame Model ES-2 Oil Burners are sold only in combination with one of the standard Arcoflame Control Sets listed here. All controls are noted for their precision manufacture and dependable performance.

CONTROL SET NUMBER		CONTENTS OF ARCOFLAME CONTROL SET	
No. 11 STEAM	For Boiler WITHOUT Year-Round Domestic Hot Water.	CA-412 450-BA-1	Timed Cycling Thermostat Pressure Limit Control
No. 12 STEAM	For Boiler WITH Year-Round Domestic Hot Water Built-in Heater.	CA-412 450-BA-1 CA-666	Timed Cycling Thermostat Pressure Limit Control Immersion Operating Control
No. 13 WATER	For Boiler WITHOUT Year-Round Domestic Hot Water. Immersion Control for New Boilers.	CA-412 CA-665	Timed Cycling Thermostat Immersion Limit Control
No. 14 WATER	For Boiler WITHOUT Year-Round Domestic Hot Water. Clamp-on Control for existing boiler.	CA-412 251-MJ	Timed Cycling Thermostat Clamp-on Limit Control
No. 15 WATER	For Boiler WITH Year-Round Domestic Hot Water Built-in heater; using circulator.	CA-412 CA-655 CA-666 CA-295	Timed Cycling Thermostat Immersion Limit Control Immersion Operating Control Relay Transformer
No. 16 WATER	For Boiler WITH Year-Round Domestic Hot Water Built-in tankless heater; using circulator.	CA-412 CA-655 CA-666-DT CA-295	Timed Cycling Thermostat Immersion Limit Control Immersion Control Double Throw Switch Relay Transformer
No. 16-Z WATER	2-zone control, for boiler WITH Year-Round Domestic HOT WATER; Built-in tankless heater; using circulators. NOTE: For each additional zone, add 1 No. CA-412 thermostat and 1 No. CA-295 relay transformer, at current prices.	2 CA-412 CA-655 CA-666 CA-666-R 2 CA-295	Timed Cycling Thermostats Immersion Limit Control Immersion Operating Control Reverse Acting Low Limit Control Relay Transformers
No. 19 WARM AIR	For Gravity Furnace.	CA-412 CA-805	Timed Cycling Thermostat Limit Control
No. 20 WARM AIR	For Forced Warm Air Unit	CA-412 CA-815-S	Timed Cycling Thermostat Fan and Limit Control



AMERICAN-Standard PLUMBING AND HEATING DIVISION

AMERICAN RADIATOR & STANDARD SANITARY CORPORATION
NEW YORK 18, NEW YORK

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