

Ray Oil Burner Co.

Since 1872

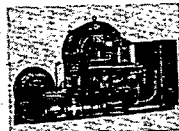
1301 San Jose Avenue
San Francisco 12, Cal.



Atlantic Seaboard Division
629 Grove Street
Jersey City 2, N. J.

There is a RAY Burner for every Heating Purpose.

RAY FORCED DRAFT PACKAGED BURNER



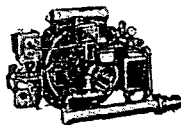
FD-ARC Size #6 fully automatic, combination gas-oil, Forced Draft Packaged Burner.

A factory assembled unit readily applied to Scotch Marine type boilers of proper design for fully automatic operation on oil, gas or combination gas-oil.

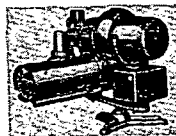
The combination gas-oil unit includes a rotary oil burner, integrated ring type gas burner, secondary air control with a forced draft fan, windbox, refractory support ring, completely wired control panel and pre-piping completely factory assembled for quick and easy installation to the boiler.

Oil components may be selected to burn any grade of oil with the secondary air control providing increased efficiency even with the difficult-to-burn catalytic residual #6 fuel oils. From 59 to 456 certified output horsepower.

RAY COMBINATION OIL-GAS BURNERS



ARC-144 Model 50 for heavy oil and Low Pressure Gas



Type PC for Oil and Low Pressure Gas

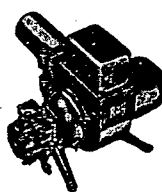


Type AR-HN Combination Oil and High Pressure Gas

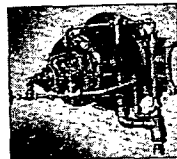
ARC-MODEL 50. Consists of a rotary type oil burner of Ray conventional design coupled with a gas housing for low pressure gas, from 2 in. WC to 10 in. WC. The gas burner parts provide for the introduction of gas in a manner which fully utilizes the energy in the high pressure air supplied by the rotary burner fan. Gas and primary air are intimately combined, in two stages, before mixing with the secondary air which is introduced through a vaned annular opening concentric with the nozzle. Change-over requires less than one minute. Available to burn any grade of oil in 10 sizes with capacities to 31,500,000 Btu/hr.

TYPE HN for gas pressures above 1 lb/sq in. may be used alone or in combination with a Ray Oil Burner. Built in eleven sizes; in capacities to 43,000,000 Btu/hr. TYPE PC. Combination gas-oil burner of the pressure atomizing type. Available in three sizes with capacities from 560,000 to 2,500,000 Btu/hr.

RAY DOMESTIC AND MARINE BURNERS



Fully Automatic, Type JP, #2 or lighter oil



Steam Turbine Drive, Type TG, all grades oil. Tested and approved for U. S. Navy Service.



Ray Warm Air Oil Furnace

RAY PRESSURE ATOMIZING OIL BURNERS Fully automatic for No. 2 oil. or lighter. AC or DC; capacities 1 to 18 gallons per hour.
WARM AIR FURNACES Built in five sizes, with input capacities of 105,000; 140,000; 230,000; 350,000; 450,000 Btu.
RAY OIL WATER HEATERS Four sizes. Capacities: 35, 45, 60 and 75 gal. Maximum recovery rates: 100 to 240 gph.

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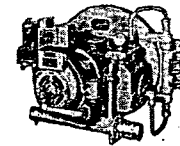


Atlantic Seaboard Division
629 Grove Street
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Distributors in
All Principal Cities of the World

Consult your local
Telephone Directory

Products: A complete line of Horizontal Rotary and Pressure Atomizing Oil Burners; Combination Oil-or-Gas Burners; Industrial Gas Burners; Forced Draft, packaged Burners; Oil Burning Water Heaters; Warm Air Furnaces, Commercial Ranges.



Type AR-144 Size 10 for No. 6 oil. Available in 10 sizes from 2 to 210 gph. Fully automatic.



Fully Automatic Type AR-154, for No. 5 oil.



1 to 1000 Boiler hp Type AG. Manual, Semi-automatic control.



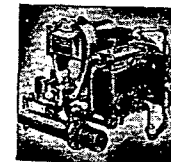
Type ARJP, Fully Automatic for heavy oil where gas for ignition not available.

RAY HORIZONTAL ROTARY OIL BURNERS

Built in fully automatic, semi-automatic and manual types; in sizes from 1 to 1000 Boiler hp; to burn all grades of fuel oil.

Standard models include both direct and belt drives—the latter being recommended for use where other than 50 or 60 Cycles AC, or only DC is available. Types for straight electric or straight gas ignition; pump or gravity feeds. Direct drive types include a steam turbine driven model.

All fully automatic types for heavy oil incorporate the Ray Dual Pump and Reservoir, with the Ray VISCOSITY Valve, a patented, exclusive feature which automatically meters the correct amount of fuel at all times, regardless of changes in viscosity of the oil due to temperature variations. All larger sizes employ dual ignition system, consisting of dual high-voltage transformers, dual electric ignitors and dual gas valves. Fully automatic sizes 9 and 10 include as standard equipment electronic pilot and flame failure control.



Type BR-141, Belt Drive, Fully Automatic. 1 1/2 to 100 gph.

HOURLY CAPACITY RATINGS of RAY OIL BURNERS

Burner Size	Motor H. P.	Oil Capacity U. S. Gallons		Equivalent Boiler HP		Equivalent Lbs. Steam Generated		Heat Capacity Input Thou. Btu Oil or 1000 Btu Gas		Equivalent Sq. Ft Steam Radiation	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
JP	1/2	1	3	3	9	110	325	140	420	438	1310
XPJ-1	1	1	4	3	12	110	430	140	560	438	1310
XP-2	1	3	8	9	25	325	855	420	1120	1310	3500
	1	8	18	25	56	855	1950	1120	2500	3500	7900
0000	3/4	0.5	2.5	2	8	60	290	75	375	234	1170
000	1	0.5	2.5	2	8	60	290	75	375	234	1170
00	1	1	2.5	3	8	110	290	150	375	469	1170
0	1	2	5	7	16	230	580	300	750	938	2350
1	1 1/2	4	11	13	35	460	1250	600	1650	1870	5170
2	2	5	15	17	50	580	1720	750	2250	2350	7030
3	3	8	22	27	72	930	2500	1200	3300	3750	10,300
5	5	10	33	35	110	1150	3800	1500	4950	4690	15500
6	6 1/2	12	50	40	165	1400	5800	1800	7500	5620	23400
7	8	15	67	50	225	1720	7750	2250	10000	7030	31400
8	3	25	100	85	335	2900	11500	3750	15000	11700	46900
9	5	35	150	120	500	4000	17400	5250	22500	—	—
10	7 1/2	50	210	165	700	5800	24400	7500	31500	—	—
12	7 1/2	75	320	250	1000	8700	37000	11250	48000	—	—

NOTE: These ratings are predicated upon specific conditions of draft and furnace volume. It may be permissible, under desirable conditions, to operate at higher rates, or advisable under restricted conditions, to operate at reduced rates. Heating capacities are based upon 150,000 Btu per gal of oil for rotary burners and 140,000 Btu per gal of oil for pressure atomizing burners and upon an overall boiler efficiency of 75 per cent.