Ray Oil Burner Co.

Since 1872

401–499 Bernal Avenue
San Francisco 12, Cal.

Distributors in
All Principal Cities of the World

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

Consult your local
Telephone Directory

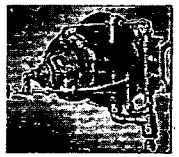
Products: A complete line of Horizontal Rotary and Pressure Atomizing Oil Burners; Combination Oil-or-Gas Burners; Industrial Gas Burners; Oil Burning Water Heaters; Winter Air Conditioning Units, Commercial Ranges.



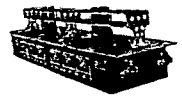
1 to 1000 Boiler hp Type AG. Manual, Semi-Automatic.



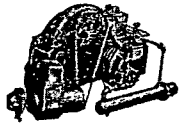
Quad-Naught for #3 oil, manual operation.



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



Two, 6 oven, fully automatic oil Ranges.



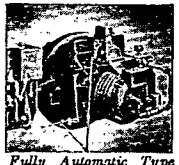
Type ARJP, Fully Automatic for heavy oil where gas for ignition not available.

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, for maximum reliability.



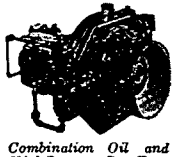
Fully Automatic Type AR-134, for No. 5 oil.

RAY PRESSURE ATOMIZING OIL BURNERS

Fully automatic, for No. 3 oil or lighter. AC or DC; capacities to 18 gal/hr.

RAY INDUSTRIAL GAS BURNERS

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.



Combination Oil and High Pressure Gas, Type AR-HN.

RAY WINTER AIR CONDITIONING UNITS

Built in four sizes, with input capacities of 105,000, 140,000, 230,000, 350,000, 450,000 Btu.

RAY OIL WATER HEATERS

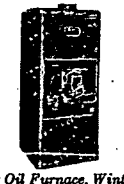
Two sizes. Capacities: 45 and 75 gal. Maximum recover rates: 154 and 240 gph.

RAY OIL FIRED RANGES

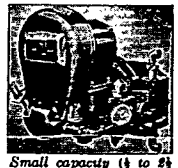
Available in seven sizes for manual or fully automatic operation.



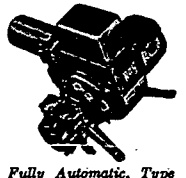
Type BR-141, Belt Drive Automatic. Available in 9 sizes from 2½ to 100 gph.



Ray Oil Furnace, Winter Air Conditioning Unit.



Small capacity (½ to 2½ gph) rotary burner.



Fully Automatic, Type JP, #3 or lighter oil.

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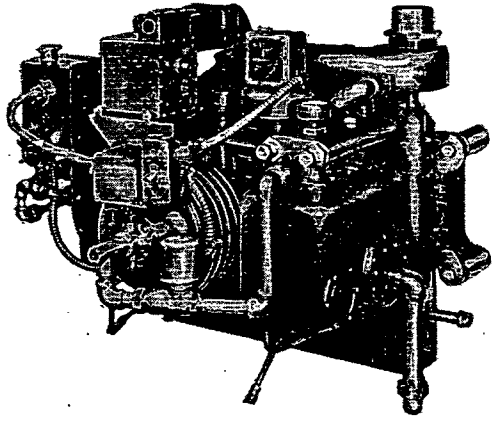
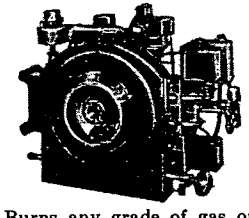
There is a RAY Burner for every Heating Purpose.

RAY COMBINATION OIL-GAS BURNER

Type ARC-131





Burns any grade of gas or heavy fuel oil and the operation is fully automatic for either fuel. Prevention against ignition or flame failure one hundred per cent electronically controlled. Develops from 7 to 335 Boiler hp. Quickly interchangeable in two to three minutes. Other types with choice of direct or belt drive, also sizes rated from 120 to 1000 Boiler hp.

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		Equivalent Sq. Ft. Steam Radiation	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
JP	¼	1	3	3	9	110	325	140	420	438	1310
XPJ	¼	1	4	3	12	110	430	140	560	438	1750
XPJ-1	½	3	8	9	25	325	865	420	1120	1310	3500
XP-2	½	8	18	25	56	865	1950	1120	2500	3500	7900
0000	⅓₀	0.5	2.5	2	8	60	290	75	375	234	1170
000	⅛	0.5	2.5	2	8	60	290	75	375	234	1170
00	¼	1	2.5	3	8	110	290	150	375	469	1170
0	½	2	5	7	16	230	580	300	750	938	2350
1	¼	4	11	13	35	460	1250	600	1650	1870	5170
2	½	5	15	17	50	580	1720	750	2250	2350	7030
3	¾	8	20	27	65	930	2300	1200	3000	3750	9380
5	1	10	33	35	110	1150	3800	1500	4950	4690	15500
6	1½	12	50	40	165	1400	5800	1800	7500	5620	23400
7	2	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	7½	50	210	165	700	5800	24400	7500	31500	—	—
12	7½	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.