

PETRO

3242 West 106th Street, Cleveland 11, Ohio

Quality Heating and Power Equipment since 1903

PETRO

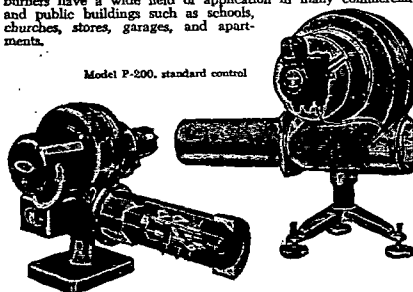
REG U S PAT OFF

INDUSTRIAL AND COMMERCIAL
OIL AND GAS BURNING SYSTEMS FOR EVERY NEED

LARGE CAPACITY BURNERS, MODELS P-90, P-90E, P-200, P-200E.

In addition to domestic heating in large residences, these Petro burners have a wide field of application in many commercial and public buildings such as schools, churches, stores, garages, and apartments.

Model P-200, standard control



Model P-90 standard control
Electronic controls available for all Petro burners

CAPACITY OF PETRO PRESSURE ATOMIZING BURNERS

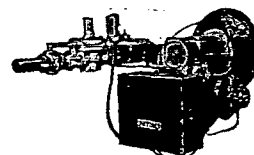
Burner Model	Nozzle Size Cals. per hr.	Total Capacity*		Approximate Shipping Weight
		Steam Sq. Ft.	Hot Water Sq. Ft.**	
P-90	8 to 9	1750 to 3150	2800 to 5050	130
P-90E	8 to 9	1750 to 3150	2800 to 5050	130
P-200	9 to 20	3150 to 7000	5040 to 11200	180
P-200E	9 to 20	3150 to 7000	5040 to 11200	180
P-300***	20 to 30	7000 to 10500	11200 to 16800	260

*Total capacity equals standing radiation, plus piping loss, plus pickup, plus hot water.

**Rating based upon water at 170°F in radiators.

***Standard with electric controls giving two-second shut-down.

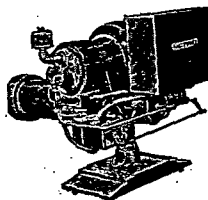
NEW COMMERCIAL FORCED DRAFT PACKAGE BURNER —FOR OIL, GAS OR DUAL-FUEL—P-240 GOSM



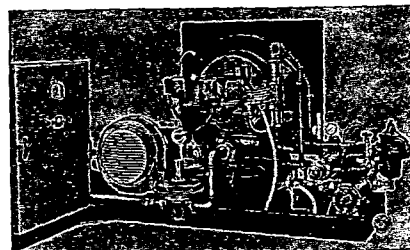
Here is a completely new commercial pressure burner which offers two distinct features: forced draft operation and freedom from pulsation. All necessary operating controls, including an electronic combustion control system, are integral components. The units are complete fuel burning systems—assembly, wired and tested at the factory. Air for combustion is supplied under pressure by a highly efficient blower. Burners are available in two types of construction: fan housing above or below the draft tube. Models with fan housing below the draft tube are particularly adaptable to Scotch-Marine type boilers, as no burner parts project above the draft tube to interfere with boiler cleanout doors. Installation is simple. Capacities range from 8 through 24 gph for oil and for gas from 1,200,000 through 3,600,000 Btu input.

"PACKAGED" COMMERCIAL OIL BURNERS—FOR FUEL OILS UP TO AND INCLUDING HEAVY NO. 5

Here at last is a reliable gun type low pressure burner that will fire No. 5 oils or any lighter grade, using the supercharger-type fuel atomizer. Atomization is so complete that electric ignition can be used in place of the gas flame required by other burner types. The ability to fire heavy or light oils, and to modulate over a wide range, makes this burner unique in its field. Capacities are from 3 to 25 gph.



PETRO COMPLETE "PACKAGED UNIT" Consisting of Burner (for oil or gas or both), Fuel System, Control Panel, and Pre-formed Refractory Combustion Throat.



This Petro package unit is much more than a conversion burner. It's a complete combustion system in which all elements are correctly balanced and integrated—a thoroughly engineered firing plant. Includes burner (for oil or gas or both), fuel system, forced draft air supply, control panel, and pre-formed refractory combustion throat. Installation requires little more than bolting the entire unit to the boiler-front and making service connections for power and fuel. This represents a substantial saving in installation time and cost—but even more important it means a factory tested and assembled unit for high operating efficiency and fuel savings.

Control panel is totally enclosed, with all instruments wired and tested at the factory.

The units are designed for easy application to all types of boilers including the Scotch Marine. They operate either under normal firebox draft conditions or under positive pressure in sealed firebox boilers which are designed for operation under furnace pressure. Oil capacity—25 to 145 gph (No. 6 or lighter) and equivalent ratings in gas.

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INDUSTRIAL AND COMMERCIAL OIL AND GAS
BURNING SYSTEMS FOR AUTOMATIC,
SEMI-AUTOMATIC OR MANUAL OPERATION

FOR UNHEATED COMMERCIAL OILS

Model W-A: Automatic ignition with synchronized control of oil and air.

**FOR HEATED OILS: HEAVY NO. 5 (MODEL W-A-E);
BUNKER "C" NO. 6 (MODEL W-AH)**

Models W-A-E, W-AH: Automatic ignition with synchronized control of oil and air, and automatic control of oil heaters.

ALL PETRO MODEL W ROTARY-CUP OIL BURNERS:

A Petro Model W consists of a self-contained assembly of fan, pump, rotary cup atomizer and all oil and air adjustment apparatus. It is either direct-driven by means of a built-in motor, or belt-driven from motor mounted on burner housing. Interlocking oil and air control mechanism permits operation at any point within the burner's minimum and maximum range.

CAPACITIES OF PETRO MODEL W OIL BURNERS AT 75% BOILER EFFICIENCY

Burner Size	Maximum Gals. Per Hour	B.T.U. Release Per Hour	Rated Capacity Boiler Horsepower	Steam Radiation, Sq. Ft., E.D.R.
W-2½	11	1,650,000	36.9	5,150
W-3	15	2,250,000	50.4	7,050
W-4	25	3,750,000	83.8	11,720
W-5	35	5,250,000	117.3	16,400
W-6	50	7,500,000	167.5	23,400
W-7	70	10,500,000	234.2	32,800
W-8	100	15,000,000	351.3	49,500
W-9	120	18,000,000	403.0	56,200
W-10	145	21,750,000	486.0	68,000
	200	30,000,000	670.0	93,600

INDUSTRIAL COMBINATION GAS-OIL BURNERS USING NATURAL AND INDUCED DRAFT:

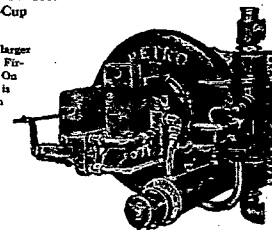
Model WC Industrial Gas-Oil Burner will fire low or high pressure natural gas or any grade of fuel oil, with natural or induced draft. It is a fully integrated unit in which primary air for combustion of both oil and gas is supplied by the oil burner fan. Secondary air is admitted around the burner opening, eliminating the deep firebox pit and brick checkerwork required in the conventional rotary oil burner setting. Enclosed control panel, with instruments installed, wired and tested at factory, may be mounted at burner or on boiler room wall. Fuel change is accomplished quickly by electrical switching. Oil capacities, 11 to 120 gph; gas 1,650,000 to 18,750,000 Btu input.

INTEGRAL AIR REGISTER CONVERSION KITS:

The Petro Air Register is ideal for converting oil installations to gas-oil. The rotary oil burner bolts on the register making an easy field conversion that is complete with refractory, combustion throat and the gas ring. All combustion air is admitted around the burner opening as required by Underwriters' Laboratories standards.

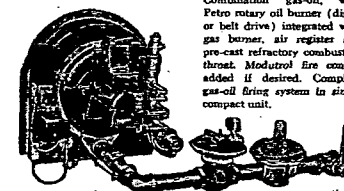
***Model WD-AH Direct-Driven Rotary-Cup Type Burner**

On W-5 and larger sizes, Modutrol Firing is standard. On smaller sizes, it is supplied as an extra.



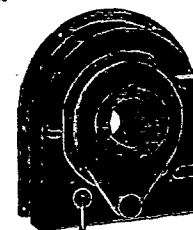
Model WC Burner

Combination gas-oil, with Petro rotary oil burner (direct or belt drive) integrated with gas burner, air register and pre-cast refractory combustion throat. Modutrol fire control added if desired. Complete gas-oil firing system in single compact unit.



New Air Register

Readily converts any Petro Rotary Oil Burner to combination gas-oil firing. Kit includes register, gas controls and standard parts groups. A minimum of installation time required. Air registers available also for straight oil firing.



* All Petro Model W burners are available in either direct- or belt-driven motor types.