

## Petroleum Heat & Power Company

Main Office and Factory: Stamford, Conn.

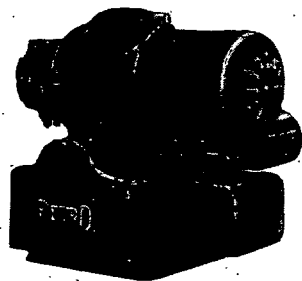
Good Oil Burning Equipment . . . "Since 1903" . . . Fuel Oils

# PETRO

REG. U. S. PAT. OFF.

## DOMESTIC OIL HEATING EQUIPMENT

### PRESSURE ATOMIZING DOMESTIC BURNERS



Petro P 20 Burner

| Burner Model Number | Nozzle Size Gal per Hr. | *Total Capacity    |                     | App. Sh'p'g. Wgt. |
|---------------------|-------------------------|--------------------|---------------------|-------------------|
|                     |                         | Steam Sq Ft        | Hot Water Sq Ft     |                   |
| P-20-A              | 1.00                    | 350                | 560                 | 155               |
| P-20                | 1.25<br>To<br>2.50      | 435<br>To<br>875   | 695<br>To<br>1400   | 155               |
| P-21                | 2.00<br>To<br>4.50      | 700<br>To<br>1575  | 1120<br>To<br>2520  | 160               |
| P-22                | 3.00<br>To<br>6.00      | 1050<br>To<br>2100 | 1680<br>To<br>3360  | 170               |
| P-12                | 6.00<br>To<br>10.00     | 2100<br>To<br>3500 | 3360<br>To<br>5600  | 215               |
| P-13-A              | 9.00<br>To<br>12.00     | 3150<br>To<br>4200 | 5040<br>To<br>6720  | 285               |
| P-13                | 12.00<br>To<br>18.00    | 4200<br>To<br>6300 | 6720<br>To<br>10080 | 285               |

### Models P 20-A, P 21, P 22

In domestic heating this group of Petro burners has wide and general application to steam, hot water, or warm air systems.

Burns No. 3 fuel oil (or lighter), heaviest and lowest priced fuel oil approved by UNDERWRITERS for domestic use. They are precision-built atomizing (or "gun" type) burners, with constant electric ignition for reliable safe operation. May be installed with inside or outside fuel storage tanks without adding auxiliary pumping facilities. Order or inquiry should specify the type, size and rating of boiler or furnace to be fired, together with the total load.

### Models P 12, P 13-A, P 13

Have wide application in heating large residences, stores, garages and other commercial buildings.

Approved for No. 3 (or lighter) fuel oil.



Petro P 13 Burner

Petro Boiler Units—both cast iron sectional and steel—in a range of five sizes covering normal domestic needs, and Petro Water Heaters and forced warm air furnaces are planned for production in early 1946. Information on this equipment available at that time. Send for catalog of Petro Domestic Oil Heating Equipment.

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## INDUSTRIAL AND COMMERCIAL OIL BURNING SYSTEMS

### FOR AUTOMATIC . . . SEMI-AUTOMATIC . . . OR MANUAL OPERATION

#### For Unheated No. 5 or Lighter Oil

**Model WA**—Automatic ignition and operation with synchronized control of oil and air.

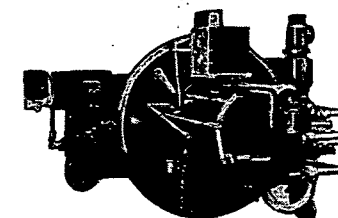
**Model W-SA**—Semi-automatic, i.e.; automatic variation of firing rate with manual ignition; or for manual variation and manual ignition.

#### For Heated Oils: Heavy No. 5, No. 6 (bunker "C") oil

**Model W-AH**—Automatic ignition and operation with synchronized control of oil and air and of oil heaters.

**Model W-SAH**—Semi-automatic with oil heaters, i.e.; automatic variation of firing rate with manual ignition; also available for manual variation and ignition.

bustion efficiency,—is through the heat applied to the oil. Petro's Thermal Viscosity System controls this heat-application at its source. Has been used successfully for years, without any need for frequent manual adjustment.



Model W—Direct Driven, Rotary Cup Type Burner  
Illustration Shows Modutrol Mounted on Burner

This burner is a self-contained assembly of motor, fan, pump, rotary cup atomizer and all air and oil adjustment apparatus.

Interlocking air and oil control mechanism permits any minimum or maximum operation required within the burner's range of operation. Counter-flow Angular Air Vanes at nozzle increase air and oil turbulence and aid efficient combustion of heavy fuel oils.

Special oil adjustment valve meters oil to rotary cup, yet permits manual operation without disturbing permanent burner adjustment.

Removable rotary cup and nozzle permits changing shape of flame to suit requirements of any boiler and prevent flame impingement.

| CAPACITIES |            |                     |                   |                       |
|------------|------------|---------------------|-------------------|-----------------------|
| Model      | Motor H.P. | Max. Gals. per Hour | Rated Cap. B.H.P. | Sq Ft C.I. Steam Rad. |
| W-2 1/2    | 1 1/2      | 11                  | 37                | 5,150                 |
| W-3        | 1 1/2      | 15                  | 50                | 7,030                 |
| W-4        | 1 1/2      | 25                  | 84                | 11,720                |
| W-5        | 1          | 33                  | 110               | 15,470                |
| W-6        | 2          | 45                  | 151               | 21,100                |
| W-7        | 2          | 62                  | 208               | 29,100                |
| W-8        | 3          | 100                 | 336               | 46,500                |
| W-9        | 3          | 145                 | 487               | 68,000                |

These burners are available for all electrical current characteristics.

### PETRO'S THERMAL VISCOSITY CONTROL

The only dependable and accurate control of viscosity—and hence delivered com-

Send for catalog of Petro Commercial and Industrial Oil Burners