

ENERAC™ PORTABLE COMBUSTION EFFICIENCY COMPUTER

Model 842

PATENT PENDING



020-842

APPLICATION

A sensitive but rugged device for the precise measurement of combustion efficiency of virtually all oil and gas-fired boilers.

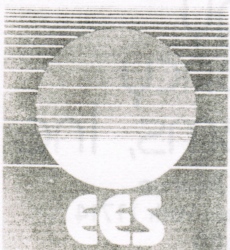
Simultaneously analyzes the four principal determinants of combustion efficiency: Oxygen, Temperature, Carbon Monoxide, and trace combustibles.

ENERAC™ Model 842 automatically and dynamically measures combustion efficiency factors and instantaneously gives digital readouts. The result of changes in fuel/air ratio are displayed immediately upon stabilization of combustion. The time-consuming multiple operations of obtaining readings, referring to charts, making adjustments, and obtaining new readings, required by older systems of stack analysis are eliminated. Tests which formerly took hours and were rarely performed can now be completed in minutes. Significant economies in fuel consumption can now be realized. Maximum efficiency is easily obtained by either the plant stationary engineer or home heating service personnel.

DESCRIPTION

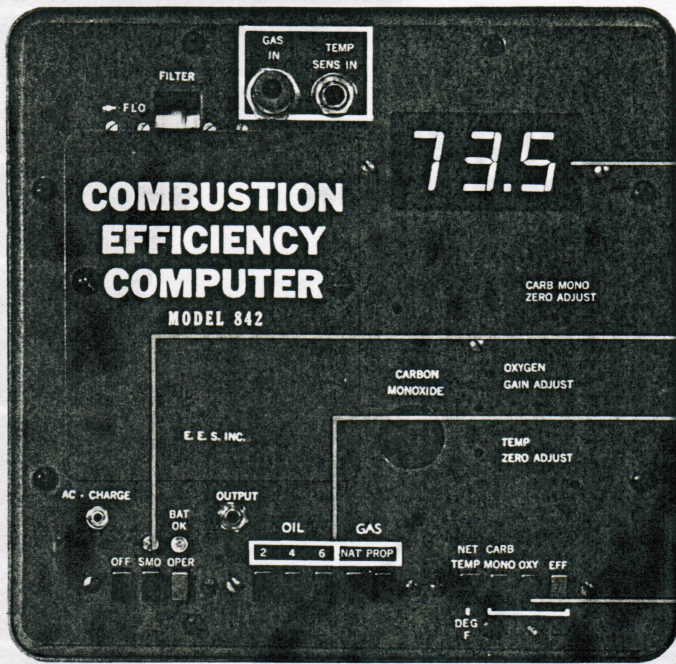
ENERAC™ 842 is housed in a strong drawn aluminum case 9 x 9 x 10-1/2 inches, with a 7-inch stainless steel probe, connected to the computer by a 10-foot hose via a quick-disconnect coupling. Rechargeable Ni-Cd batteries provide four hours continuous operation.

The instrument may also be operated on AC. Readout is 3-digit LED display 0.8" high. Carbon monoxide warning indicates when CO in stack exceeds 400 ppm (0.04%). Push-buttons permit selection of fuel: No. 2, No. 4, No. 6 oil, propane or natural gas. Instantaneous readings of oxygen, carbon monoxide, and temperature can also be obtained to pinpoint sources of trouble. Smoke test for oil-fired boilers is simply and quickly done.



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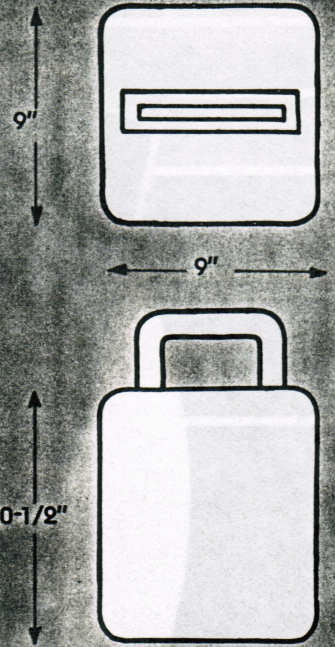


Bright digital display.

Automatic smoke test.

Push button selection of fuel type.

Temperature, carbon monoxide, or oxygen readouts pinpoint source of problem.



WEIGHS ONLY 9 POUNDS

PERFORMANCE SPECIFICATIONS

Parameter	Range	Accuracy
Efficiency	0 to 95%	± 3%, ± 1% (70 to 85%)
Carbon Monoxide	0 to 2.5%	± 10% for 1000ppm CO in air 60°F
Oxygen	0 to 21%	± 0.3%
Temperature (net)	0 to 999°F	± 7°F

Response Time: 90% of reading in 20 seconds.

Warm-Up Time: 2 minutes

Maximum Stack Temperature: 1600°F

Recorder Output: 0 to 10 Volts into high impedance input

Smoke Test: Smoke paper method, 0-9 Bach. No.

Electrical Requirements

Battery operated:

Rechargeable Ni-Cd batteries.

AC power: 110 volts AC/60 Hz/1 amp (using battery charger)

Ordering Information

ENERAC™ Model 842 Portable Combustion Efficiency Computer

The Model 842 is provided complete with a 7 inch stainless steel and aluminum wand for insertion into the flue, 10 feet of hose, one filter, rechargeable batteries, and 100 pieces of smoke test paper.

REPRESENTED BY:



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