

ENERAC™ 942



**Dual readouts
let you see
fuel savings
and safety
side-by-side.**

Unmatched versatility in a compact, portable instrument.

Housed in a sturdy drawn aluminum case, the ENERAC 942 is battery operated, weighs just 10 lbs., and is considered carry-on luggage that fits easily under your seat or in the overhead compartment. It computes efficiency for 5 standard fuels (coal, #2 and #6 oils, natural gas, and LPG), or you can substitute other optional fuels. ENERAC 942 comes complete with a condensate trap and a special inconel probe capable of withstanding temperatures up to 2000°F.

Feature for feature, no other instrument combines so much versatility and dependability with such easy portability. ENERAC 942 - it's the one, and only, piece of combustion testing equipment you'll ever need.

For further details, including pricing and delivery information, contact your local authorized ENERAC distributor, or call toll-free 1-800-645-7490. In New York, call (516) 938-6680.



**Energy
Efficiency
Systems, Inc.**

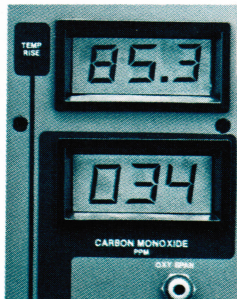
1211 Stewart Avenue
Bethpage, New York 11714
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Sometimes, obtaining optimum fuel efficiency for your boilers and furnaces isn't enough. Because even highly efficient burners can develop dangerous carbon monoxide gas. Fortunately, there is now a portable combustion efficiency computer that lets you conduct simultaneous tests for safety and efficiency in just 5 minutes.

A system so simple to use, it saves you time and energy from the start.

With ENERAC 942, your maintenance staff simply inserts a probe into the exhaust stack, pushes a button, and the unit instantly provides continuous digital readouts of oxygen content, net stack temperature, combustibles, carbon dioxide, and actual combustion efficiency on an easy-to-read LCD display.

Plus, only 942 offers a second display of carbon monoxide content in one part per million (ppm) increments ranging from 0 to 1999 ppm.



These two readouts, working in tandem, make safe boiler tune-ups simple. Maintenance personnel observe changes in both readouts as fine-tuning adjustments are made until optimum savings and acceptable CO levels have been reached. It's a simple 5-minute procedure that quickly pays for itself with fuel savings from 3 to 15 percent and increased plant safety.

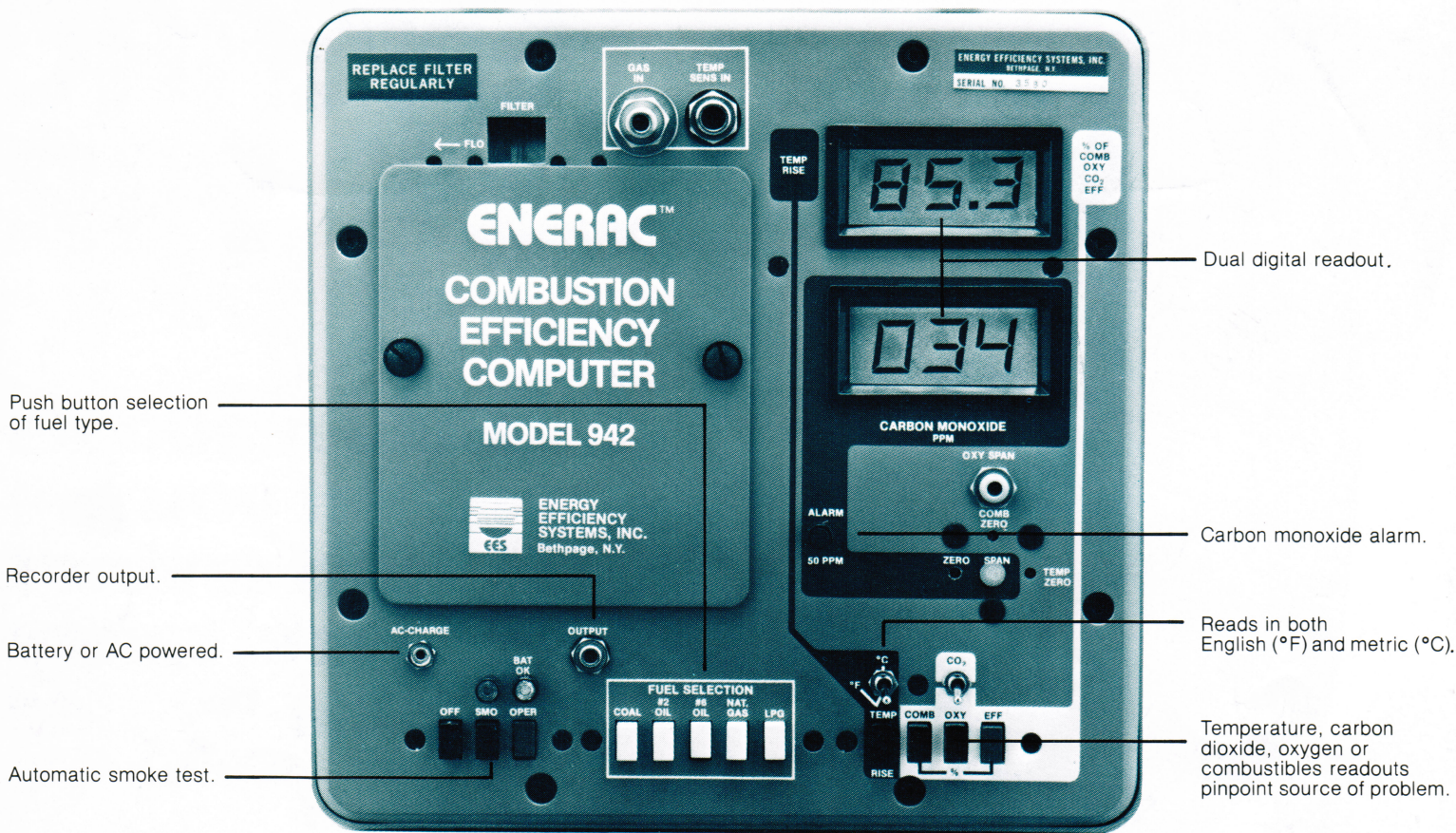
A system so reliable, it's practically fool-proof.

Since ENERAC 942 performs all the necessary calculations automatically with computerized accuracy, tricky conversion charts used by more rudimentary test kits are no longer required. This rugged solid state unit also eliminates the need for hand pumps, shattered glass, and imprecise color matching charts. As a result, you can obtain accurate, reliable results with virtually no operator training time required.

It's also a CO monitor.

As your all-in-one CO monitor, the ENERAC 942 can be carried throughout the physical plant for area CO safety checks. A flashing light triggers automatically when OSHA's 8-hour weighted average limit of 50 ppm CO has been exceeded. A recorder output permits permanently recorded measurements.

Shown 1/2 size



TECHNICAL SPECIFICATIONS

DESCRIPTION:

ENERACTM is a compact, battery operated, combustion efficiency computer that offers continuous digital readouts of the following:

1. Actual combustion efficiency (0 to 97%)
2. Net stack temperature (0 to 1999°F)
3. Oxygen (0 to 25%)
4. Carbon Monoxide (0 to 1999 ppm)
5. Carbon Dioxide (calculated) (0 to 20%)

PERFORMANCE SPECIFICATIONS:

Parameter	Resolution	Accuracy
Temperature Rise, °F	1	± 12
Combustibles, %	0.01	± 0.01% for 0.1% CH ₄ in N ₂
Carbon Monoxide, ppm	1	± 5% of reading ± 1 unit
Oxygen, %	0.1	± 0.3%
Carbon Dioxide, % (calculated)	0.1	± 0.5%
Efficiency, % (calculated)	0.1	± 1 (75 to 90%)

Recorder output: 0 to 10 volts into high impedance output.
 Smoke test: Smoke paper method.
 Max. stack temp: 2000°F (1100°C)
 Warm-up time: 2 minutes
 Response time: Time required for a reading of 90% of final value.
 Temperature: 1.5 to 2 minutes; oxygen: 20 seconds;
 CO: 40 seconds; combustibles: 20 seconds.

POWER:

Battery: Rechargeable Ni-Cd batteries and battery charger.
 AC: 110 volts AC/60 Hz using battery charger.

FUEL SELECTIONS:

•Coal •#2 oil •#6 oil •Natural Gas •LPG (Propane)
 (Five position switch indicates fuel type selected. Other fuels may be substituted.)

STANDARD ACCESSORIES:

- Water trap
- Smoke chart and smoke test paper
- Battery charger/AC adaptor
- Probe: 12 inch inconel with aluminum handle and 10 feet of black rubber hose including protective polyethylene tubing.

PHYSICAL:

Dimensions: 9" x 9" x 10 1/2"
 Weight: 10 lbs.
 Material: Drawn aluminum case

OPTIONS:

Hose lengths: 20 foot length available
 Probe lengths: 24 and 36 inches, other lengths available

SENSORS:

Temperature: Chromel-Alumel (type "K") thermocouple
 Combustibles: Semiconductor type
 Carbon Monoxide: Sealed electrochemical cell, typical life 1-2 years
 Oxygen: Sealed galvanic fuel cell, typical life 6-8 months



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