

**UEi**

**T**equipment  
**.NET**



205 Westwood Ave  
Long Branch, NJ 07740  
1-877-742-TEST (8378)  
Fax: (732) 222-7088  
salesteam@Equipment.NET



# **EAGLE**

**COMBUSTION ANALYZERS™**

**DESIGNED FOR AMERICAN SYSTEMS**



## C75KIT - Combustion Analyzer Kit:

The C75KIT is a solution for technicians working to set and maintain optimum efficiencies for boilers or furnaces. This kit includes the feature packed **Eagle 1 Combustion Analyzer**. Equipped with a new improved user-friendly interface as well as a DMM style rotary selector, a real time clock and a magnet built-in to the boot, the C75 captures and calculates data with professional accuracy and ease.

### Functions:

- Measures: Flue temperature, oxygen, carbon monoxide (CO)
- Calculates: Carbon dioxide, gross/net efficiency, excess air, CO air free
- Unique DMM style rotary selector
- Protective boot w/integral magnet
- Real time clock
- CO readings to 1 ppm
- Large 2 line back-lit display
- Infrared printer port
- User programmable header
- 20 memory positions
- 3 year limited warranty  
(2 year warranty on sensor)

## Also Available..

### C75 Analyzer

**Includes:** C75 Analyzer, Flue Probe, Particle Filter, and Manual.



### C750ILKIT

**Includes:** C75 Analyzer, Flue Probe, Smoke Pump Test Kit, Draft Pressure Gauge, AC Adapter, AC75 Soft Carrying Case, Particle filter, & Owners Guide.



### Kit Includes:

- **Eagle 1 (C75) Combustion Analyzer**
- KMIRP2 Infrared Thermal Printer
- Flue Probe
- AAC44 AC adapter
- AC75 soft carrying case w/protective foam interior
- Particle filter
- Thermal printer paper roll
- Owners guide



Featuring The New  
**WORKLIGHT**

## C125KIT - Combustion Analyzer Kit:

The C125KIT is 4 instruments in 1. Designed to offer advanced system analysis and productivity this kit includes the ground-breaking **Eagle 2 Combustion Analyzer**. This multi-functional instrument is a superior combustion analyzer with unmatched simplicity and a unique combination of features to enhance a technician's efficiency and safety. The EAGLE 2 is perfect for combustion efficiency analysis but also doubles as a differential thermometer, differential manometer, and an ambient CO detector.

### Same features as the EAGLE 1 (C75) Plus:

- Measures: Differential flue temperature, oxygen, flue & ambient carbon monoxide (CO), & Differential Pressure
- Calculates: Carbon dioxide, gross/net efficiency, excess air, & CO air free
- Worklight
- 4 line backlit LCD display
- 179 memory positions
- User customizable parameters view
- Individual report printouts
- 3 year limited warranty  
(2 year warranty on sensor)



## Also Available..

### C125 Analyzer

**Includes:** C125 Analyzer, Flue Probe, Particle Filter, AC75 Soft Carrying Case, Quick Start Manual, and Owners Guide.



### C1250ILKIT

**Includes:** C125 Analyzer, KMIRP2 Printer, Flue Probe, Smoke Pump Test Kit, (2) K-Type Temp. Probes, AC Adapter, AC75 Soft Carrying Case, Particle filter, Thermal printer paper roll, Quick Start Manual, & Owners Guide.



### Kit Includes:

- **Eagle 2** (C125) Combustion Analyzer
- KMIRP2 Infrared Thermal Printer
- Flue Probe
- (1) K-Type Temperature Probe
- AACA4 AC adapter
- AC75 soft carrying case w/protective foam interior
- Particle filter
- Thermal printer paper roll
- Quick start manual
- Owners guide

75.0  
20.0  
220  
43.45  
PPM  
0  
20.9  
8.88  
18.88  
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34.8%  
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72.1  
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20.0  
220  
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%  
msVA  
MkOHr  
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18.88  
55.0  
34.0%  
75.0  
188.88



Featuring The New  
**WORKLIGHT**

## **C127KIT - Combustion Analyzer Kit:**

The C127KIT offers the same benefits of the Eagle 2 (C125KIT) with the additional ability to measure Nitric Oxide. This allows technicians to work in commercial and light industrial applications measuring Nitric Oxide at 1ppm resolution. The C127KIT offers a complete system analysis solution with clear-cut navigation.

### **Same features as the EAGLE 2 (C125) Plus:**

- Measures: Nitric Oxide (NOx)

## Also Available..

### **C127 Analyzer**

**Includes:** C127 Analyzer, Flue Probe, Particle Filter, AC75 Soft Carrying Case, Quick Start Manual, and Owners Guide.



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### **Kit Includes:**

- **Eagle 3** (C127) Combustion Analyzer
- KMIRP2 Infrared Thermal Printer
- Flue Probe
- (1) K-Type Temperature Probe
- AACA4 AC adapter
- AC75 soft carrying case w/protective foam interior
- Particle filter
- Thermal printer paper roll
- Quick start manual
- Owners guide

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372.1  
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55.0  
34.8%  
75.0  
18888



## Specifications

Features	C75	C125	C127
Worklight		✓	✓
Low battery indicator		✓	✓
Individual print-out reports		✓	✓
Rotary selector	✓	✓	✓
Memory positions (various tests)	20	179	179
Infrared printer port	✓	✓	✓
Backlit display	2 Lines	4 Lines	4 Lines
Boot with integral magnet	✓	✓	✓
User programmable headers	✓	✓	✓
Time & date stamp	✓	✓	✓
3 yr warranty (2 yr sensor warranty)	✓	✓	✓

### Temp Measurement

Flue Temp Range (T1 C125/C127)	32 ~ 1112°F / 0 ~ 600°C	20 ~ 2400°F / -29 ~ 1315°C
Inlet Temp Range (T2 C125/C127)	-	
Inlet Temp Range (Ambient)	32 ~ 1112°F / 0 ~ 600°C	32 ~ 112°F / 0 ~ 50°C
Net Temp (ΔT)**	32 ~ 112°F / 0 ~ 50°C	20 ~ 2400°F / -29 ~ 1315°C
Resolution	1°F/°C	0.1°F/°C
Flue (T1, Inlet T2, & Net ΔT) Accuracy	±[0.3% rdg +5°F(3°C)]	±[0.3% rdg +3.6°F(2°C)]
Inlet Temp Ambient Accuracy	±[0.3% rdg +1°F(1°C)]	±[0.3% rdg +1.8°F(1°C)]

### Gas Measurement

Oxygen	0 ~ 21%	0 ~ 21%	0 ~ 21%
O2 Resolution/Accuracy	0.1% / ±0.2%*	0.1% / ±0.2%*	0.1% / ±0.2%*
Carbon Monoxide	0 ~ 1000 ppm	0 ~ 4000 ppm	0 ~ 4000 ppm
CO Resolution/Accuracy	1 ppm/±10 ppm < 100 ppm* ±5% reading	1 ppm/±10 ppm < 100 ppm* ±5% reading	1 ppm/±10 ppm < 100 ppm* ±5% reading
Carbon Dioxide**	0 ~ 30%	0 ~ 30%	0 ~ 30%
CO2 Resolution/Accuracy	1.0%/±0.3% reading	1.0%/±0.3% reading	1.0%/±0.3% reading
Efficiency**	0 ~ 99.9%	0 ~ 99.9%	0 ~ 99.9%
Efficiency Resolution/Accuracy	0.1%/±1.0% reading	0.1%/±1.0% reading	0.1%/±1.0% reading
Excess Air**	0 ~ 250%	0 ~ 250%	0 ~ 250%
Excess Air Resolution/Accuracy	0.1%/±0.2% reading	0.1%/±0.2% reading	0.1%/±0.2% reading
CO/CO2**	-	0 ~ 0.999%	0 ~ 0.999%
CO/CO2 Resolution/Accuracy	-	0.0001%/±5% reading	0.0001%/±5% reading
Nitric Oxide	-	-	1 ppm/±2 ppm < 30 ppm*
Nitric Oxide Resolution/Accuracy	-	-	±5 ppm > 30 ppm

### Pressure (Differential)

	Range ±0.2mBar 0.08" wg	0.001mBar/±0.005mBar ±0.002" wg	0.001mBar/±0.005mBar ±0.002" wg
	Range ±1mBar 0.4" wg	0.001mBar/±0.03mBar ±0.01" wg	0.001mBar/±0.03mBar ±0.01" wg
	Range ±80mBar 32" wg	0.01mBar/±3% reading	0.01mBar/±3% reading

### Eagle Dimensions

Weight	2.2lbs. with boot
Handset	7.9 x 1.8 x 3.5"
Probe	11.8 x 0.25 x 9.4" stainless steel shaft, type K thermocouple (9' hose)
Operating temp	0 to 40°C/10% to 90% Relative Humidity non-condensing
Battery	x4 "AA" cells / 12 hour life typical with Alkaline "AA" cells
Warranty	3 year limited warranty (2 year sensor warranty)

### Pre-Programmed Fuels

Natural Gas, Propane, Butane, LPG, Light Oil

\*Measures \*\*Calculates



The Eagle Combustion Analyzers™ makes combustion analysis as easy as turn the power on, select the fuel and go! The Eagle product line simplifies the complex efficiency process from basic combustion analysis to full system maintenance. Whether you're new to digital combustion analyzing or tired of scrolling through layers of navigation menus, the Eagle offers a quick start-up and a straightforward interface with a professional combination of features.

**Application Reference - EAGLE 1 EAGLE 2 EAGLE 3**

**Residential**

Furnace:	✓	✓	✓
Water heaters:	✓	✓	✓
Efficiency testing and tuning:	✓	✓	✓
CO analysis:	✓	✓	✓

**Residential / Small Commercial**

Furnace:	✓	✓	✓
Water heaters:	✓	✓	✓
Small boiler:	✓	✓	✓
Excess Air:	✓	✓	✓
Efficiency and safety testing:	✓	✓	✓
Ambient temperature testing:	✓	✓	✓
CO analysis:	✓	✓	✓
Differential pressure measuring draft:		✓	✓
Differential temperature:		✓	✓
Ambient CO:		✓	✓

**Medium Commercial / Light Industrial**

Medium size boilers:			✓
Efficiency:			✓
CO analysis:			✓
Limited NOx emissions monitoring:			✓

C75



C125



C127



For combustion equipment designed for Large Commercial and Industrial applications, please visit [WWW.UETEST.COM](http://WWW.UETEST.COM)



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