



709 Combustion Efficiency Analyzer w/ Differential Digital Manometer (0.001 inH2O)

APPLICATIONS

RESIDENTIAL

- Furnace
- Hot water heater
- Radiant heat boilers
- CO testing

COMMERCIAL

- Boilers
- Furnaces
- Hot water heater
- CO testing

INDUSTRIAL

- Boilers
- Furnaces
- Hot water heater
- CO testing



4.0" w x 8.12" h x 2.25" d

Includes a built-in high-resolution (0.001 inH2O) differential manometer capable of accurately measuring pressure and draft.

1. Combustion Efficiency Analyzer

- Measure O₂ and CO
- Calculate CO₂, efficiency, excess air and ratio.
- Will work with high efficiency furnaces, hot water heaters, and other combustible gas appliances.

2. Differential Digital Manometer

- 0.001 inH2O resolution

3. CO Analyzer

- Measure 0-10,000 ppm CO

4. Differential Thermometer

- Dual input K-Type thermocouple temperature tester



Ask about the optional A740 Infrared Printer.

NOTE: When selecting oil as fuel be sure to use the optional oil filter or reading could become erratic. Order item A773.

709 FEATURES

- Easy to use
- Large, easy-to-use display
- IR printer port
- Large memory capacity (holds up to 50 sets of complete test results)
- Protective rubber boot included

709 ACCESSORIES

CO Sensor, Oxygen Sensor, Protective Boot, Stack Probe, PVC Tubing, Water/filter trap on Stack Probe, Shoulder Strap Carrying Case, Spare Particle Filters

709 OPTIONAL ACCESSORIES

A740 IR Printer

A773 Sulfer Filter

A740 Infrared Printer

- Easy to use
- Battery operated
- Self test facility
- Adjustable contrast
- Manual paper feed
- Maximum transmitting distance 16" (45cm)
- Compatible with most other combustion analyzers



3.0" w
x 6.0 h
x 1.75" d



**TECHNICAL
SPECIFICATIONS
AND
ACCESSORIES**

709 Combustion Efficiency Analyzer w/ Differential Digital Manometer (0.001 inH2O) 709

Temperature Measurement

Range	-40° to 1472°, or -40° to 800°C
Resolution	1°F or C
Accuracy (K-type)	±0.3%, ±2°F or ±1°C

Draft/Pressure Measurement & Tightness Test

Selectable Ranges	mBar,kPa, and inH ₂ O
Ranges	-150 mBar to +150 mBar -15 kPa to +15 kPa -60 inH ₂ O to +60 in H ₂ O
Resolution	.001inH ₂ O (0.01mBar)
Accuracy	±0/5% fsd

Gross/Net Efficiency

Range	0 to 100%
Resolution	0.1%

Oxygen (O₂) Measurement

Range	0 to 25%
Resolution	0.1%
Accuracy	±0.3%

Carbon Monoxide (CO) Measurement

Range	0 to 10,000 ppm
Resolution	1 ppm
Accuracy	±5 ppm or 5%, whichever is greater

Carbon Dioxide (CO₂)

Range	0 to 25%
Resolution	0.1%
Accuracy	Calculated

CO/CO₂ Ratio

Range	0 to 0.999
Resolution	0.001
Accuracy	Calculated

Instrument Specifications

Operating Temperature Range	14° to 122°F (-10° to 50°C)
Battery	3 "AA" Alkaline Batteries
Fuels	Natural Gas, LPG, Light Oil, Heavy Oil
Display	Backlit LCD
Data Storage	50 sets of readings
Time & Date	24 Hour Real Time Clock
Dimensions	200mm x 90mm x 60mm
Weight	500g
Exhaust	Safety Spigot
Conforms To:	BS7927 (and the draft BS7967)

ACCESSORIES

Standard

Flue Probe w/K-type	A770
Pressure tubing	A774
K-Type Temperature Probe	GK11M
In-Line Filter Complete	A794
Mini Pump Protection Filter Assembly	A763
Batteries	3 x "AA" Alkaline Batteries
Protective Boot	A765
Soft Carrying Case	A768
Exhaust Spigot	A764

Optional

Infrared Printer	A740
Replacement Printer Paper (10 rolls)	A746
20 Foot Flue Gas Analyzer Probe	A770-20
Oil Filter	A773

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