



C50/OILKIT

The Complete Solution Kit

Now You Really Can Work Smarter!

Get away from the slide rules, efficiency charts, shakers and messy dumb-bells required for costly and time-consuming wet-chemical analysis!

The Combustion Solution Kit Includes:

- **C50 Combustion Analyzer**
with stainless steel probe
 - Unique Digital Multimeter style rotary selector
 - Protective boot with integral magnet
 - Real time clock
 - Large 2 line backlit display
 - Infrared printer port
 - **Measures**
 - Flue temperature
 - Oxygen
 - **Calculates:**
 - Carbon dioxide
 - Gross/net efficiency
 - Excess air
 - Efficiency losses
- **SPT1 Smoke Test Kit**
- **AACA4 AC Adapter**
- **Draft pressure gauge D460**
- **AC75 Soft Carrying Case**
- **Particle Filter (1) 17631**



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The C50/OILKIT is an effective and affordable way to measure combustion efficiency when installing or maintaining oil-burning combustion appliances. This kit combines the innovative and feature packed **C50 Combustion Analyzer** and the **SPT1 Smoke Test Kit**. Equipped with smart and useful features like the digital multimeter style rotary selector, a real time clock and a magnet built-in to the boot. The C50 captures and calculates data with professional accuracy and ease. The **SPT1 Smoke Test Kit** determines efficient combustion from distillate fuels. This kit also includes a professional grade flue probe with a stainless steel shaft, an AC power adapter, an extra particle filter all packed in a compact and convenient soft carrying case.

C50 Specifications

Parameter	Resolution	Accuracy	Range
Temperature			
Flue Temperature	1°F/°C	±5°F (2°C) ±0.3% reading	32-1112°F (0-600°C)
Gas Measurement			
Oxygen	0.1%	±0.2% ^{*1}	0-21%
Carbon Dioxide ^{*2}	0.1%	±0.3% reading	0-30%
Efficiency ^{*2}	0.1%	±1.0% reading	0-99.9%
Excess Air ^{*2}	0.1%	±0.2%	0-250%
Pre-programmed Fuels Natural Gas, Light Oil, Propane, Butane, LPG			
Dimensions			
Weight	2.2lb (1kg)		
Handset	8" (200mm) x 2" (45mm) x 3.5" (90mm)		
Probe	L 12" (300mm) x Dia 0.25" (6mm) with 8" (200mm) long stainless steel shaft, type K thermocouple and 9ft (3m) long neoprene hose		
Ambient Operating Range	32-104°F (0°C to 40°C) 10% to 90% RH non-condensing		
Battery Life	Standard "AA" (x4) >8 hours continuous use		
AC adapter (optional)	Input: 110V AC nominal Output: 9V DC regulated 500mA minimum		

C50/OILKIT Comparison to Wet Chemical Analyzer

Feature	C50/OILKIT	Wet Chemical
No efficiency chart required	✓	Requires charts
No chemicals required	✓	Requires chemicals
Continuously updated efficiency analysis	✓	• Each sample takes 20 minutes
True net temperature readings provided	✓	• Thermometer for stack gas temperature only
Built-in electronic sample pump	✓	• Bulb-type hand pump
Magnetic mount to keep analyzer near controls	✓	• Requires flat and level surface
9' sample hose and probe	✓	• Approximately 4'
Carrying case included	✓	✓
*1 Optional day and time stamped print capability	✓	No printer capabilities
Manometer included	✓ Manual draft gauge	✓ Manual draft gauge
Smoke-pump included	✓	✓
Analyzes efficiency	✓	✓
Analyzes losses	✓	• Requires charts
*2 Affordable analysis system	✓	Requires constant supply of chemicals

*1 - Printout with optional printer includes area to write-in smoke scale results

*2 - Initial investment using listed trade prices are approximately the same (typically within 10%)

Cost of ownership (replacement chemicals, parts, etc.) will typically be higher with a Wet Chemical Kit than with a digital analyzer
• - No

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