

# Mechanical Burner Combustion Testing Kits

Combustion &  
Environmental Analyzers



- [Bacharach 10 5002 Oil Burner Combustion Testing Kits](#)
- [Bacharach 10 5014 Oil Burner Combustion Testing Kits](#)
- [Bacharach 10 5022 Oil Burner Combustion Testing Kits](#)
- [Bacharach 10 5036 Oil Burner Combustion Testing Kits](#)

Bacharach® Combustion Testing Kits continue to offer you the most economical means of testing for oil burner efficiency during installation or servicing. Each kit is designed with the service technician in mind and contains the instruments listed in the ordering chart.

## Oil Burner Combustion Testing Kits

### Components

1. **Fyrite® CO<sub>2</sub> Indicator** – The Fyrite Carbon Dioxide Indicator measures the percent CO<sub>2</sub> in a flue gas sample.
2. **True Spot® Smoke Tester and Oil Burner Smoke Scale** – With the True Spot Smoke Tester and Smoke Scale, you can get an accurate indication of smoke content in flue gas.
3. **Fire Efficiency Finder/Stack Loss Slide Rule** – The Fire Efficiency Slide Rule is a quick and easy way of determining combustion efficiency and stack loss from the results of the CO<sub>2</sub> and stack temperature tests.
4. **Tempoint® Dial Thermometer** – High stack temperatures are cause for special concern and may indicate a serious condition.
5. **Model MZF Draft Gauge** – The intensity of draft determines the rate at which combustion gases pass through the boiler or furnace. With the MZF Draft Gauge, you can determine if draft is excessive or insufficient.
6. **Drafrite® Draft Gauge** – In some Oil Burner Combustion Testing Kits, the hand-held Drafrite replaces the Model MZF Draft Gauge for measuring overfire and draft.
7. **Carrying Case** – Instruments for Bacharach Oil Burner combustion Testing Kits come in a rugged, plastic carrying case.



### Components

1. **Fyrite® Indicators; CO<sub>2</sub> and O<sub>2</sub>** – The Fyrite Indicators are utilized in conjunction with the Tempoint Dial thermometer to determine efficiency calculation with the Fire Efficiency Slide Rule.
2. **Monoxor® CO Indicator** – The Monoxor Indicator quickly and easily tests CO concentrations in flue gas samples.
3. **Fire Efficiency Finder/Stack Loss Slide Rule** – The Fire Efficiency Slide Rule provides a rapid and uncomplicated means of determining combustion efficiency and stack loss from the results of the CO<sub>2</sub> and stack temperature tests.
4. **Drafrite® Draft Gauge** – The hand-held Drafrite pinpoints draft problems and determines chimney defects.
5. **Tempoint® Dial Thermometer** – With the Tempoint Dial Thermometer, you can obtain an accurate stack temperature of gas designed equipment.
6. **Gas Service Calculator** – The Gas Service Calculator determines the orifice size needed for fuel gas of any specific gravity and BTU value.
7. **Gas Pressure Manometer** – The Gas Pressure Manometer determines if gas input and gas pressure adjustments are within recommended limits.
8. **Monoxor® Carbon Monoxide Detector** – In some Testing Kits, the Monoxor Carbon Monoxide Detector replaces the Monoxor CO Indicator.
9. **Carrying Case** – Testing kit comes in a rugged, plastic carrying case.



**OIL BURNER COMBUSTION TESTING KIT ORDERING INFORMATION**

ITEM NO.	KIT CONTENTS	STANDARD KIT					EXPORT KIT*			
		10-5014	10-5002	10-5022	10-5036	10-5050	10-5150	10-5023	10-5037	10-5051
10-5064	Fire Efficiency Finder	■	■	■	■	■	■			
10-0100	Carrying Case (large)	■		■	■	■	■	■	■	■
11-0121	Moisture Absorb. Material	■	■	■	■	■	■	■	■	■
11-7029	Sampling Hose Assembly	■	■	■	■	■	■	■	■	■
11-7032	Fyrite CO2 20%-Filled	■	■	■	■	■				
12-7014	Tempoint Therm. 1000° (6" Stem)	■	■	■	■		■			
13-7019	MZF Draft, +.05 to -.25"W	■		■			■			
10-0099	Carrying Case (small)		■							
13-3000	Drafrite, +.10 to -.14"W		■		■					
21-7006	True Spot Smoke Tester			■	■	■	■	■	■	■
12-7018	Tempoint Therm. 1000° (12" Stem)					■				
13-7021	MZF Draft, +.05 to -1.0"W					■				
10-5175	Stack Loss Calculator							■	■	■
11-7031	Fyrite CO2 20%-Unfilled						■	■	■	■
12-7015	Tempoint Therm. 540°C (6" Stem)							■	■	
13-7020	MZF Draft, +1.0 to -2.5mmW							■		■
13-7018	MZF Draft, +1.0 to -5mmW								■	
12-7017	Tempoint Therm. 540°C (12" Stem)									■

\* Export Kits are similar to standard kits except Fyrite Indicators are shipped without fluid installed. Drafrite, MZF Draft Gauge, Manometer and Tempoint are supplied metric in most instances. Fluid for export kits must be purchased separately in three bottle cartons.

**GAS BURNER COMBUSTION TESTING KIT ORDERING INFORMATION**

ITEM NO.	KIT CONTENTS	STANDARD KIT			EXPORT KIT*		
		10-5030	10-5035	10-5217	10-8008	10-5047	10-5224
10-0070	GAS SERVICE CALCULATOR	■	■	■			■
10-5064	FIRE EFFICIENCY FINDER	■	■	■			■
10-5067	HIGH EFFICIENCY FINDER	■	■	■			
10-0100	CARRYING CASE	■	■	■	■	■	■
11-0121	MOISTURE ABSORB. MATERIAL	■	■	■	■	■	■
11-7029	SAMPLING HOSE ASSEMBLY	■	■			■	■
11-7045	EXTENDED SAMPLING HOSE ASSEMBLY (10')				■		
11-7032	FYRITE CO2, 20% FILLED	■	■	■			
11-7036	FYRITE O2, 21% FILLED	■		■			
12-7014	TEMPOINT THERMOMETER 1000°F (6"STEM)	■	■	■			■
13-3000	DRAFTRITE +.10 TO .14"W	■	■	■			■
17-7002	MANOMETER 15"W 8.5OZ/IN 2	■	■	■			■
19-0003	SAMPLING TUBE ATTACHMENT	■		■		■	
19-7021	CO DETECTOR KIT	■				■	
11-7045	SAMPLING TUBE ASSEMBLY			■	■		■
19-0001	SPARE TUBE TIPS (6)	■		■	■		■
19-0243	MONOXOR INDICATOR .2%			■	■		■
19-5015	CARTON OF 12 CO TUBES			■	■		■
10-5175	STACK LOSS CALCULATOR				■	■	
11-7031	FYRITE O2, 20% UNFILLED				■	■	■
11-7035	FYRITE O2, 21% UNFILLED				■	■	■
19-0242	MONOXOR INDICATOR .2%						
19-5010	CARTON OF 12 CO TUBES						
12-7015	TEMPOINT THERMOMETER 540°C (6"STEM)				■	■	
13-3002	DRAFTRITE +2.5 TO -3.5MM W					■	
17-7000	MANOMETER 15"W, 38CMW					■	
13-3003	DRAFTRITE -6.5MM TO 1.5MM				■		
19-7019	MONOXOR PUMP	■					
19-5002	MONOXOR CO TUBES	■					

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