PHOENIX

MICROWAVE MUFFLE FURNACE

Fast, Accurate Ash Analysis

a Heating element placed in furnace walls for optimum heating efficiency

b Dual protection system prevents microwave door from closing without the furnace door in place

c Large display for easy viewing

d Programmable temperature control allows simple single set point temperature or stored multiple stage programs

e NIST-traceable dual thermocouple allows rapid verification and calibration of the furnace temperature for ISO/GLP procedures

f High speed exhaust eliminates need for unit placement in a fumehood

g Furnace temperature uniformity exceeds requirements of standard methods (USP, ASTM, AOAC)

h Use any kind of crucible, including metal!

i Store up to 20 methods

j IR sensor shuts down microwaves in the event of overheating

k Provides safe storage for furnace door Protects operators from hot inner surface

Two furnace configurations available!

High Temperature
1200 °C Furnace holds up to 8 (25-mL) crucibles

High Capacity
1000 °C Furnace Holds up to 15 (25-mL) crucibles Ideal for higher-throughput laboratories

PHOENIX FEATURES

Fast & Efficient
Phoenix Muffle Furnaces perform many high temperature applications up to 97% faster than traditional muffle furnaces, giving you more time to make adjustments to your process and reduce out-of-specification product.

Accurate
Phoenix furnaces satisfy standard methods that require electrically heated furnaces. They have built-in calibration software and NIST traceable accessories are available.

Safe
Phoenix reduces exposure to fumes and heat with a built-in exhaust system that does not require placement of the unit in a fume hood. These rugged, durable furnaces feature door interlocks and built-in system diagnostics.

Easy-to-Use
Auto-start software allows pre-programmable warm-up and shut down. Phoenix furnaces store up to 20 user-programmed methods.

- Up to 97% faster than conventional muffle furnaces
- Accurate results in minutes
- 2 furnace sizes to choose from
- Clean, cool operation
- Rugged and durable
- Reduces exposure to fumes and heat
- Quartz fiber crucibles allow rapid cooling and eliminates risks of burns from handling
- Platinum, porcelain, and graphite crucibles allowed
- Airwave version available
- Sulfated Ashing option available

QUICK & EASY STEPS

ACCURATE ASH ANALYSIS
Doesn't Get Any Easier Than This

1

Select the ashing program for your sample using the keypad on the Phoenix Ashing Furnace

2

Weigh your sample into a crucible

3

Place samples in furnace

4

Press "Start"

Over 50,000 systems sold worldwide

CEM has been an ISO-certified facility since 1994

All systems serviced & supported by experts with an average of 15 years of experience

CEM invests 11% of annual revenue into R&D, the result... 11 R&D 100 awards

IQ/OQ/PQ Validation by certified CEM Technicians

Our commitment to you doesn't end when your system is shipped; ***it begins.***

~Michael J. Collins
President & CEO, CEM

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