

1400 SERIES

PLATINUM WOUND GRADIENT TUBE FURNACES 1425°C (2597°F), 1540°C (2804°F), 1700°C (3092°F),

The CM 1400 Series Platinum Wound Gradient Tube Furnaces offer controlled heating and cooling rates, precise temperature control, compactness, and sturdy construction for long term use. These furnaces are available as single zone units or in multi-zone configurations for controlled gradients.

The 1400 Series furnaces incorporate a graded insulation package using high purity alumina fiber. These furnaces will not hot spot at high temperatures and are resistant to degradation. The rugged exterior consists of a stainless steel shell and end caps. An internal winding consisting of platinum stranding is wound around a hollow alumina tube creating a very effective element. The three available temperature ranges are wound with different amounts of platinum stranding. The 1400 Series Control and Power Supply console includes all components required for immediate installation and operation. Proper control of the element winding

requires a step-down transformer, phase angle-fire SCR, ammeter and voltmeter, independent overtemperature instrumentation, circuit breaker and a multiple segment programmable control such as Honeywell or Eurotherm used in conjunction with either type "S" or type "B" thermocouples depending on the model.

TYPE L - For use up to 1425°C (2597°F), using type "S" thermocouple

TYPE M - For use up to 1540°C (2804°F), using type "S" thermocouple

TYPE H - For use up to 1700°C (3092°F), using type "B" thermocouple

All furnaces are available in diameters from 1/2" to 5" and lengths to 24". They can be used for horizontal or vertical operation.

FURNACE INCLUDES:

- Rugged Stainless Steel Shell and End Caps
- High Purity Alumina Fiber Insulation
- Platinum Strand Winding on Alumina Core

USED FOR THESE AND OTHER APPLICATIONS:

- Ceramics
- Glass
- Crystal Growth
- Powders
- Laboratory Research
- Materials Testing
- Gradient Work
- Melting
- Firing
- Sintering

OPTIONAL CONTROL/ POWER SUPPLY INCLUDES:

- Type "S" or "B" Thermocouple
- Programmable Ramp and Soak control
- Phase Angle-Fire SCR and Step-Down Transformer
- Ammeter and Voltmeter
- Independent Overtemperature Instrumentation
- Separate Console
- 10' Interconnecting Wire and T/C Extension Leads

