

Thermolyne Furnaces



High Temperature 1500°C/1700°C Tube



High Temp and It Tilts!

- Rapid heat-up to 1500°C or 1700°C
- 20 inch heated zone
- RS232 included on all models



Type F54500

Product Description

- Choose from 1700°C fixed horizontal chamber or 1500°C adjustable tilt chamber, for operation in horizontal, angular, and vertical positions.
- Furnace accommodates 1, 2 or 3 inch diameter tubes with supplied ceramic collars.
- Utilizes eight Super Kanthal 33 Molybdenum Disilicide heating elements for long life and excellent heat-up and uniformity characteristics.
- Forced air circulation between inner and outer walls ensures longevity of electronic components; exterior remains cool.
- Current controller gradually gives power to elements extending the life of heating elements.

Heat-up

- Furnace models can reach 1500°C in 30 minutes. This heat-up rate allows for optimum element life.

Unitized Controller

- For ease of installation, the combination of chamber and controller requires only one electrical hook-up.

Tilt Design

- Thermolyne has responded to the demand for operational versatility with a horizontal, angular, or vertical design.
- The innovative tilt design of the 1500°C tube furnace has a quick release lever. The spring loaded mechanism allows ease of positioning with bench top stability.

Unitized Construction

- Control unit is integrated into the furnace housing, assuring maximum furnace performance.
- This integral design feature also conserves bench space.

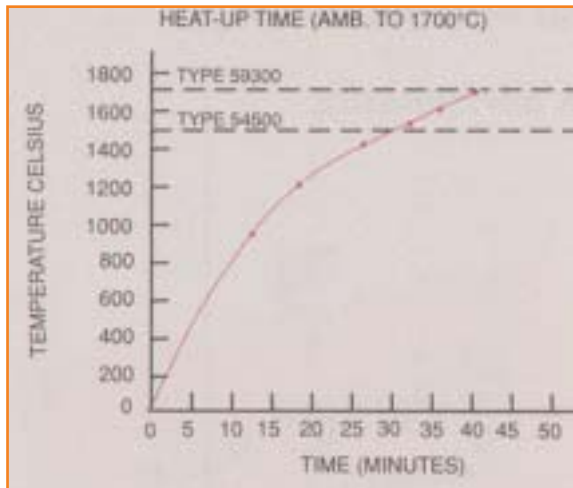
Interchangeable Temperature Controls

- Microprocessor controls, single setpoint or programmable, allow flexibility in choosing the correct controller for your application.
- Built-in controls can be easily interchanged by simply sliding the control module out from the sleeve.
- All controllers have RS232 digital communications as a standard feature.
- No power cord supplied. Electrical connection requires fixed wiring.

Operation

- Choose from two control options:
D1: Digital programmable control with 4 stored programs, 16 segments per program. The controller also includes RS232 communications. The furnaces that use this control also utilize a mechanical Over Temperature Protection relay.
E1: Digital programmable control with 20 stored programs, 16 segments per program. The controller also includes RS232 communications. The furnaces that use this control also utilize a mechanical Over Temperature Protection relay.

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Furnace Heat-up Time



Type F54500 Furnace operates in horizontal, angular or vertical position.



Type F59300 1700°C

PRODUCT SPECIFICATIONS

Type	Description	Chamber Process Tube Dia. Inches (cm)	Length Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
			L	W	H	D		
F54500	1500°C	1-3 (2.5-7.62)	20 (50.8)	22.75 (37.7)	28.5 (72.3)	22 (55.8)	212 (96.2)	
F59300	1700°C	1-3 (2.5-7.62)	20 (50.8)	22.75 (37.7)	28.5 (72.3)	22 (55.8)	212 (96.2)	

ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hz) Amps	Watts	Operating Temp Range °C	Temp Control Group	Stabilization Amps	Watts	US List Price
F54548CM	208	40	8320	800-1500	D1	9	1875	\$16,685.00
F54540CM-33'	240	40	9600	800-1500	D1	10.3	1875	\$16,685.00
F59340CM-33'	208/240	40	9600	800-1700	D1	10.3	1875	\$16,706.00
F59348CM	208	40	8320	800-1700	D1	9	1875	\$16,706.00
F59340CM-33-75'	208/240	40	9600	800-1700	E1	10.3	1875	\$18,269.00
F59348CM-75'	208	40	8320	800-1700	E1	9	1875	\$18,269.00

The maximum current is determined by the limiting factor set by the current control. In the event that 40 amperes is not available, the current control may be set to limit the current to a smaller value at the expense of a somewhat longer heat up time.
 † CE marked.