

Thermo Scientific Lindberg/Blue M 1700 °C tube furnaces

Rapid heat-up, recovery and cooldown

High temperature tube furnaces achieve excellent temperature uniformity at 1700 °C with rapid heat-up, recovery and cool-down. The independent digital temperature control (ordered separately) has multiple programmable segments useful for a wide range of applications.

- Feature heating elements with unique right-angle bend and sidewall mounting to deliver exceptional energy release, reduced thermal process cycle time, and cost savings through quicker throughput and energy efficiency
- Moldatherm graduated-density insulation provides safety, performance and outstanding radial and linear temperature uniformity with resistance to thermal shock
- Heating elements tolerate rapid cycling over extended periods; elements are easily replaceable without the need to match resistance values
- Type “B” thermocouples assure accurate temperature measurement and long thermocouple life; 10 ft. compensated lead wire with polarized plug included
- Moldatherm graduated density insulation adds to safety and performance by forming enhanced insulation protection between the high-temperature chamber and exterior cabinet surface
- Double shell construction and convection cooling design reduces exterior surface temperature
- Removable louvered panels provide easier access to heating elements and thermocouple
- Temperature range: 500 °C to 1700 °C



Control options

- C: Order independent control separately, (see below)
- Adjustable over-temperature control and/or RS485 data port available on select models
- See page 7 for details on controllers

Applications

- Heat treatment
- Sintering
- Annealing
- Atmosphere processing
- Crystal growing

Cat. No.	Temp. Range and Control	Heated Zone	Exterior L x W x H	Tube O.D.	Electrical	Shipping Weight	Plug Type
STF54434C	500° to 1700 °C Independent	30.5cm (12 in)	40.6 x 55.9 x 48.3 cm (16 x 22 x 19 in)	7.6 cm (3 in)	208/240 V, 50/60 Hz 5000 W, 50 A	43 kg (95 Lb.)	No plug, no cable, requires hardwiring
STF54454C	500° to 1700 °C Independent	61.0cm (24 in)	40.6 x 86.4 x 48.3 cm (16 x 34 x 19 in)	7.6 cm (3 in)	208/240 V, 50/60 Hz 10,000 W, 41.7 A	75 kg (165 Lb.)	No plug, no cable, requires hardwiring

Cat. No.	Control (please order separately)	Electrical	For Use with
CC59256PCOMC-1	C, RS485 data port	208/240V 50/60 Hz; 30 A	STF54434C
CC59256PBCOMC-1	C, OTC, RS485 data port	208/240V 50/60 Hz; 30 A	STF54434C
CC59256PCM2CTC-1	C, RS485 data port	208/240V 50/60 Hz; 60 A	STF54454C

Required power cord, hardwiring and interconnecting wiring are not included.

Warranty*: 1 year (parts and labor)

Accessories - vestibules/sleeves

Cat. No.	Description	For Use with
7219-2134-001	1 in sleeve	STF54434C tube furnace
7219-2134-002	2 in sleeve	STF54434C tube furnace
7219-2134-003	3 in sleeve	STF54434C tube furnace
7219-2134-011	3 in sleeve	STF54454C tube furnace
7219-2134-012	2 in sleeve	STF54454C tube furnace
7219-2134-013	1 in sleeve	STF54454C tube furnace
7219-2147-001	1 in vestibule	STF54434C tube furnace
7219-2147-002	2 in vestibule	STF54434C tube furnace
7219-2147-011	3 in vestibule	S STF54454C tube furnace
7219-2147-003	3 in vestibule	STF54434C tube furnace
7219-2147-012	2 in vestibule	STF54454C tube furnace
7219-2147-013	1 in vestibule	STF54454C tube furnace

- Optional Moldatherm vestibules permit operation with 1", 2" and 3" O.D. process tubes for increased versatility. Two vestibules are required for each furnace.
- Tube Sleeves may be placed over customer supplied process tubes to reduce thermal shock to the process tube. All tube sleeves are 3" long

Includes: 1 set of two 3" vestibules and sleeves.

Required Accessories: Independent digital temperature control module, available separately. Required power cord, hardwiring and interconnecting wiring are not included. For information on process tubes contact your process tube supplier.

Warranty*: 1 year (parts and labor)