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TPS
Thermal Product Solutions
SPX

# Blue M 1700°C Tube Furnaces

The Blue M 1700°C high temperature tube furnaces achieve excellent temperature uniformity with rapid heat-up, recovery and cool-down. Moldatherm® graduated density insulation adds to safety and performance by forming enhanced insulation protection between the high temperature chamber and exterior cabinet surface. Moldatherm graduated density insulation, combined with molybdenum disilicide heating elements, provide superior radial and linear temperature uniformity with resistance to thermal shock. The independent digital temperature control (ordered separately) has 16 programmable segments useful for a wide range of applications.



## Features

- Heating elements with unique right angle bend and sidewall mounting
- Heating elements tolerate rapid cycling over extended periods
- Type "B" thermocouples
- Moldatherm end vestibules accept 3" O.D. process tube (customer supplied)
- Double shell construction
- Removable louvered panels
- Moldatherm graduated density insulation

## Benefits

- Delivers exceptional energy release, fast heat-up and recovery, reduced thermal process cycle time, and cost savings through quicker throughput and energy efficiency
- Elements are easily replaceable without the need to match resistance values
- Sidewall mounting of heating elements protects integrity of chamber roof; roof penetrations are avoided
- Type "B" thermocouples assure accurate temperature measurement and long thermocouple life; 10' compensated lead wire with polarized plug included
- Reduces exterior surface temperature
- Provides easier access to heating elements and thermocouple
- Moldatherm graduated density insulation adds to safety and performance by forming enhanced insulation protection between the high temperature chamber and exterior cabinet surface

Blue M

# Blue M 1700°C Tube Furnace Specifications

| Blue M 1700°C Tube Furnace | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model | Single Phase Electric Power (Votz/Hz) | Watts | Independent Controller | Exterior Dimensions WxF - BxH in. (cm) | Process Tube Dia. Inches (cm) | Heated Length Inches (cm) | Shipping Weight lbs. (kg.) |
| STF54434C | 208/240, 50/60 | 5,000 | CC59256PCOMC | 16x22x19 (40.6x55.9x48.3) | 1, 2, 3 (2.5, 5.1, 7.62) | 12 (30.48) | 95 (43) |
| STF54454C | 208/240, 50/60 | 10,000 | CC59256PCOM2KT | 16x34x19 (40.6x86.4x48.3) | 1, 2, 3 (2.5, 5.1, 7.62) | 24 (60.96) | 165 (75) |

These furnaces are designed for use wih a variety of process tubes including: alumina, mullite, quartz, and metallic.
One 3-inch vestibule set included; other size sets may be ordered separately. Tube sleeves must be ordered separately.

## Applications

- Annealing
- Ashing
- Carbon firing
- Ceramic firing
- Hardening
- Drying
- Normalizing
- Sintering
- Solution Treating
- Stress Relieving

| Blue M 1700°C Tube Furnace Controllers | | | | | |
|---|---|---|---|---|---|
| Controller Model | Digital | With Programmer | With Overtemp Controller | Exterior Dimensions WxF - BxH in. (cm) | Shipping Weight lbs. (kg.) |
| CC59256PCOMC | Yes | Yes | n/a | 21x15x10 (53.3x38.1x25.4) | 130 (59) |
| CC59256PBCOMC | Yes | Yes | Yes | 21x15x10 (53.3x38.1x25.4) | 130 (59) |
| CC59256PCOMCKTC | Yes | Yes | n/a | 22x15x30 (55.9x38.1x76.2) | 230 (105) |
| CC59256PBCOMCKTC | Yes | Yes | Yes | 22x15x30 (55.9x38.1x76.2) | 230 (105) |

All furnaces 208/240VAC, single phase, 50/60Hz. Power cord and process tube not included.

| Furnace Model | Vestibule Catalog No. (Ordered Seperately) | | |
|---|---|---|---|
| | 1-inch Dia. | 2-inch Dia. | 3-inch Dia. |
| 208/240, 50/60 | 7219-2147-001 | 7219-2147-002 | Included (7219-2147-003) |
| 208/240, 50/60 | 7219-2147-013 | 7219-2147-012 | Included (7219-2134-011) |

| Furnace Model | Sleeve Catalog No. (Ordered Seperately) | | |
|---|---|---|---|
| | 1-inch Dia. | 2-inch Dia. | 3-inch Dia. |
| STF54434C | 7219-2134-001 | 7219-2134-002 | Included (7219-2134-003) |
| STF54454C | 7219-2134-013 | 7219-2134-012 | Included (7219-2134-003) |

## Options

- Inert and combustible atmosphere admission systems
- Vertical versions
- Computer communications software
- Moldatherm® vestibules permit operation with 1", 2" and 3" O.D. process tubes for increased versatility
- 1700°C Controller, Programmable with Communications Provides programmable PID based control – 4 program patterns of 16 segments. Visually displays ramp rate, dwell time, program segment and percent power output. A hold back feature allows the operator to set a .process vs. setpoint temperature value which, when exceeded, holds the program to allow the process to catch up. The controller includes an advanced self-tuning feature which automatically sets the best PID settings for the thermal process. Two digital displays simultaneously indicate actual temperature and setpoint temperature. High limit and port) for connection to remote computer, allowing modification, interrogation and data transfer of all instrument control and configuration parameters. Software not included.
- **Option B Overtemperature Control (OTC)** • Adjustable digital overtemperature control, factory installed on selected control consoles with .B. designation. Protects furnace and load in the event of primary control circuit failure. Overrides main controller, assumes temperature control and shuts off power to furnace if high limit is reached. Manual reset required for safety. Operates via magnetic contacts through signal from independent thermocouple.
- **Vestibules** • Optional Moldatherm® vestibules permit operation with 1", 2" and 3" O.D. process tubes for increased versatility. Two vestibules are required for each furnace. One 3" vestibule set is included and installed with each furnace.
- **Moldatherm Sleeves** • Tube sleeves may be placed over customer supplied process tubes to reduce thermal shock to the process tube. One set of 3-inch tube sleeves is included with each furnace. Contact Lindberg for other sizes and vertical mounting. All tube sleeves 3" long.

TPS
Thermal Product Solutions
A Unit of SPX Corporation

570-538-7200
www.thermalproductsolutions.com
tpsinfo@tps.spx.com

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