

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Thermo / Lindberg / Blue M STF54454C* at our website: *Click HERE*

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP