

# Thermo Scientific Lindberg/Blue M 1100 °C tube furnaces

Three-zone 1100 °C tube furnaces feature Moldatherm ceramic fiber insulation with optimum power consumption



- Ideal for a variety of process tubes including alumina, mullite, quartz and metallic
- Double-shell construction and variable density insulation combine to enhance performance over conventional furnaces
- Durable, high-strength hardware and a variety of control systems offer both convenience and versatility over a range of sophistication

## Performance features

- Three-zone control allows independent temperature control of each zone with programmability\*
- Excellent temperature uniformity
- Fast heat-up and cool-down and quick recovery

## Design features

- Flexible design – can be used for a variety of applications
- Innovative use of venting and insulating air spaces create lower exterior surface temperatures
- Long-life Type K thermocouple
- Accepts an array of tube adapters; largest specified tube size supplied (set of two)
- RS485 digital communications port available as an option; allows controller to be connected to a PC for remote monitoring and control

## Control details

- B – three programmable controllers, one for each zone
- See page 7 for details

## Applications

- Gravimetric analysis
- Sintering
- Quantitative analysis
- Heat treatment

\* Note that maximum temperature difference between center zone and two end zones is +/-50°C

| Cat. No.    | Temperature Range                    | Heated Length   | Heated Zone                      | Process Tube Diameter   | Exterior L x W x H                         | Power Consumption                      | Shipping Weight     | Plug Type                              |
|-------------|--------------------------------------|-----------------|----------------------------------|-------------------------|--|--|---------------------|--|
| STF55346C-1 | 100° to 1100 °C<br>(212° to 2012 °F) | 61 cm (24 in)   | 15.2/30.4/15.2 cm<br>(6/12/6 in) | 2.5-7.5 cm<br>(1-3 in)  | 43.2 x 88.9 x 53.3 cm<br>(17 x 35 x 21 in) | 208/240 V, 50/60 Hz,<br>3800 W, 16 A   | 102 kg<br>(225 Lb.) | No plug, no cable, requires hardwiring |
| STF55666C-1 | 100° to 1100 °C<br>(212° to 2012 °F) | 91.4 cm (36 in) | 22.3/45.7/22.3 cm<br>(9/18/9 in) | 7.5-15.2 cm<br>(3-6 in) | 55.9 x 137.2 x 66 cm<br>(22 x 54 x 16 in)  | 208/240 V, 50/60 Hz,<br>11,000 W, 46 A | 115 kg<br>(255 Lb.) | No plug, no cable, requires hardwiring |

## Tube adapters

| Cat. No. | Description           | For Use With              |
|----------|-----------------------|---------------------------|
| 59541TA  | 1 in adapter          | STF55346C -1 tube furnace |
| 59543    | 2 in adapter          | STF55346C -1 tube furnace |
| 59545    | 3 in adapter          | STF55346C -1 tube furnace |
| 59555    | 3 in adapter          | STF55666C -1 tube furnace |
| 59556    | 4 in adapter          | STF55666C -1 tube furnace |
| 59557    | 5 in adapter          | STF55666C -1 tube furnace |
| 59558TA  | 6 in adapter          | STF55666C -1 tube furnace |
| 59549    | Blank (solid) adapter | STF55346C -1 tube furnace |
| 59559TA  | Blank (solid) adapter | STF55666C -1 tube furnace |

To add RS-485 digital communications port to furnace model, add "COM" before last letter in Cat. No. - e.g., STF55346COMC-1

**Ordering information:** Required process tube not included. For information on process tubes contact your process tube supplier.

**Includes one set of two tube adapters:** 59545 (STF55346C-2), 59558TA (STF55666C-1)

**Required accessories:** Power cord and hardwiring

**Warranty\*:** 1 year (parts and labor)