



The MTF wire wound tube furnaces use a wire element that is wound directly onto a fixed integral ceramic work tube.

This simple and economical design provides a furnace which can be used without the need to purchase an accessory work tube. However, should vacuum or a modified atmosphere be required, it is necessary to use a separate slide-in work tube in order to provide the required length needed to fit end seals. Similarly, in some circumstances a work tube that has different physical or chemical properties to the fixed work tube may be required. The use of an additional slide-in work tube protects the integral work tube and heating element



MTF 12/25/250

Standard features

- 1000 °C or 1200 °C maximum operating temperature
- Carbolite Gero 301 controller with single ramp to setpoint and process timer
- 15 mm, 25 mm or 38 mm inner diameters
- 130 mm, 250 mm, 400 mm or 850 mm heated length
- Integral wire wound work tube
- Delayed start / process timer function as standard
- Horizontal configuration mounted on control module

Options (specify these at time of order)

- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications (see pages 94 – 97)
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- A range of additional work tubes (pages 98 – 99) and end seals (page 102) or work tube packages (pages 100 – 101) are available
- Insulation plugs & radiation shields to prevent heat loss & improve uniformity
- Alternative mounting configurations are available (see page 51)

Technical data

CGH	Max. temp. [°C]	Heat-up time [mins]	Max. continuous operating temperature [°C]	Dimensions: Fixed tube inner diameter [mm]	Dimensions: Heated length [mm]	Dimensions: External H x W x D [mm]	Dimensions: Furnace body length [mm]	Uniform length ± 5°C [mm]	Max. power [W]	Holding power [W]	Thermocouple type	Weight [kg]
MTF 10/15/130	1000	5	900	15	130	360 x 200 x 240	150	30	400	100	K	3
MTF 10/25/130	1000	10	900	25	130	360 x 200 x 240	150	45	400	100	K	3
MTF 12/25/250	1200	15	1100	25	250	375 x 370 x 375	300	60	700	200	N	10
MTF 12/38/250	1200	25	1100	38	250	430 x 370 x 375	300	90	1000	300	N	15
MTF 12/25/400	1200	25	1100	25	400	375 x 450 x 375	450	100	1000	200	N	15
MTF 12/38/400	1200	25	1100	38	400	430 x 450 x 375	450	130	1500	300	N	17
MTF 12/38/850	1200	-	1100	38	850	430 x 900 x 375	900	500	2800	-	N	24

Please note:

- Heat up rate when using an optional ceramic work tube must be limited to 5°C/min
- Heat up time is measured to 100°C below max, using an empty tube & insulation plugs
- Holding power is measured at continuous operating temperature

- Maximum power and heat up time based on a 240 V supply
- Uniform length ± 5°C (mm): Uniform temperature lengths are measured with insulation plugs fitted



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