



TUBE FURNACE

Labocon LTF-100 Series Tube Furnace is ergonomically designed for easy operation and optimum insulation. The advanced PID controller ensures precise temperature control. The durable heating resistors guarantee uniform heating of the furnace up to 1100°C and low energy consumption. These furnaces are available with a wide dimension range.



Features:

- PID controlled software and synchronized hardware
- 4 line wide LCD display and user friendly operation
- Audio warnings at the end of each step and at the end of the whole heating program
- Total heating time and average working temperature are displayed
- Date and time settings available
- Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature
- For model LTF: 102, 104:
 - * Temperature calibration correction via menu
 - * Waiting levels provided
 - * Auto start at the set date (year-month-day-time)
 - * Offset calibration via menu ($\pm 10^{\circ}\text{C}$)

Application:

In material research industry they are used for testing novel materials under strict temperature and varying atmosphere conditions. In the electronics industry they are used for testing electronic components and semiconductor materials under inert atmospheres or vacuum. They are also used for testing temperature sensors such as thermocouples and PT100's, which may require enhanced thermal uniformity.

Specification:

Model	LTF-101	LTF-102	LTF-103	LTF-104
Dimension (mm)	20x250	20x250	20x250	20x250
Maximum Temperature	1100°C	1100°C	1100°C	1100°C
Working Temperature	1075°C	1075°C	1075°C	1075°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	4 A	4 A	5 A	5 A
Heating Program	Direct/ two step	4	Direct/ two step	4
Program memories	2	4	2	4
Heated Length (mm)	250	250	250	250
Maximum Power	800 W	800 W	1000 W	1000 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421176481	9421177481	9421178481	9421179481

Labocon LTF-200 Series Tube Furnace is ergonomically designed for easy operation and optimum insulation. The advanced PID controller ensures precise temperature control. The durable heating resistors guarantee uniform heating of the furnace up to 1200°C and low energy consumption. These furnaces are available with a wide dimension range.



Features:

- PID controlled software and synchronized hardware
- 4 line wide LCD display and user friendly operation
- Audio warnings at the end of each step and at the end of the whole heating program
- Total heating time and average working temperature are displayed
- Date and time settings available
- Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature
- **For all models except LTF: 201,205,209,213,217,221:**
 - * Temperature calibration correction via menu
 - * Waiting levels provided
 - * Auto start at the set date (year-month-day-time)
 - * Offset calibration via menu ($\pm 10^{\circ}\text{C}$)
- **For LTF-204,208,212,216,220,224:**
 - * Heat rate settings at each program
 - * 16 stage heating program at 5th memory

Application:

In material research industry they are used for testing novel materials under strict temperature and varying atmosphere conditions. In the electronics industry they are used for testing electronic components and semiconductor materials under inert atmospheres or vacuum. They are also used for testing temperature sensors such as thermocouples and PT100's, which may require enhanced thermal uniformity.

Specification:

Model	LTF-201	LTF-202	LTF-203	LTF-204
Dimension (mm)	20x250	20x250	20x250	20x250
Maximum Temperature	1200°C	1200°C	1200°C	1200°C
Working Temperature	1150°C	1150°C	1150°C	1150°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	5 A	5 A	5 A	5 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	250	250	250	250
Maximum Power	1000 W	1000 W	1000 W	1000 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421180481	9421181481	9421182481	9421183481

Specification:

Model	LTF-205	LTF-206	LTF-207	LTF-208
Dimension (mm)	20x400	20x400	20x400	20x400
Maximum Temperature	1200°C	1200°C	1200°C	1200°C
Working Temperature	1150°C	1150°C	1150°C	1150°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	5 A	5 A	5 A	5 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	400	400	400	400
Maximum Power	1000 W	1000 W	1000 W	1000 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421184481	9421185481	9421186481	9421187481

Specification:

Model	LTF-209	LTF-210	LTF-211	LTF-212
Dimension (mm)	50x250	50x250	50x250	50x250
Maximum Temperature	1200°C	1200°C	1200°C	1200°C
Working Temperature	1150°C	1150°C	1150°C	1150°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	7 A	7 A	7 A	7 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	250	250	250	250
Maximum Power	1500 W	1500 W	1500 W	1500 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421188481	9421189481	9421190481	9421191481

Specification:

Model	LTF-213	LTF-214	LTF-215	LTF-216
Dimension (mm)	50x450	50x450	50x450	50x450
Maximum Temperature	1200°C	1200°C	1200°C	1200°C
Working Temperature	1150°C	1150°C	1150°C	1150°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	7 A	7 A	7 A	7 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	450	450	450	450
Maximum Power	1500 W	1500 W	1500 W	1500 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421192481	9421193481	9421194481	9421195481

Specification:

Model	LTF-217	LTF-218	LTF-219	LTF-220
Dimension (mm)	75x600	75x600	75x600	75x600
Maximum Temperature	1200°C	1200°C	1200°C	1200°C
Working Temperature	1150°C	1150°C	1150°C	1150°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	16 A	16 A	16 A	16 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	600	600	600	600
Maximum Power	3500 W	3500 W	3500 W	3500 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421196481	9421197481	9421198481	9421199481

Specification:

Model	LTF-221	LTF-222	LTF-223	LTF-224
Dimension (mm)	75x800	75x800	75x800	75x800
Maximum Temperature	1200°C	1200°C	1200°C	1200°C
Working Temperature	1150°C	1150°C	1150°C	1150°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	16 A	16 A	16 A	16 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	800	800	800	800
Maximum Power	3500 W	3500 W	3500 W	3500 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421200481	9421201481	9421202481	9421203481

Labocon LTF-300 Series Tube Furnace is ergonomically designed for easy operation and optimum insulation. The advanced PID controller ensures precise temperature control. The durable heating resistors guarantee uniform heating of the furnace up to 1300°C and low energy consumption. These furnaces are available with a wide dimension range.



Features:

- PID controlled software and synchronized hardware
- 4 line wide LCD display and user friendly operation
- Audio warnings at the end of each step and at the end of the whole heating program
- Total heating time and average working temperature are displayed
- Date and time settings available
- Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature
- **For all models except LTF: 301,305,309,313,317,321:**
 - * Temperature calibration correction via menu
 - * Waiting levels provided
 - * Auto start at the set date (year-month-day-time)
 - * Offset calibration via menu ($\pm 10^{\circ}\text{C}$)
- **For LTF-304,308,312,316,320,324:**
 - * Heat rate settings at each program
 - * 16 stage heating program at 5th memory

Application:

In material research industry they are used for testing novel materials under strict temperature and varying atmosphere conditions. In the electronics industry they are used for testing electronic components and semiconductor materials under inert atmospheres or vacuum. They are also used for testing temperature sensors such as thermocouples and PT100's, which may require enhanced thermal uniformity.

Specification:

Model	LTF-301	LTF-302	LTF-303	LTF-304
Dimension (mm)	20x250	20x250	20x250	20x250
Maximum Temperature	1300°C	1300°C	1300°C	1300°C
Working Temperature	1250°C	1250°C	1250°C	1250°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	5 A	5 A	5 A	5 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	250	250	250	250
Maximum Power	1000 W	1000 W	1000 W	1000 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421204481	9421205481	9421206481	9421207481

Specification:

Model	LTF-305	LTF-306	LTF-307	LTF-308
Dimension (mm)	20x400	20x400	20x400	20x400
Maximum Temperature	1300°C	1300°C	1300°C	1300°C
Working Temperature	1250°C	1250°C	1250°C	1250°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	5 A	5 A	5 A	5 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	400	400	400	400
Maximum Power	1000 W	1000 W	1000 W	1000 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421208481	9421209481	9421210481	9421211481

Specification:

Model	LTF-309	LTF-310	LTF-311	LTF-312
Dimension (mm)	50x250	50x250	50x250	50x250
Maximum Temperature	1300°C	1300°C	1300°C	1300°C
Working Temperature	1250°C	1250°C	1250°C	1250°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	7 A	7 A	7 A	7 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	250	250	250	250
Maximum Power	1500 W	1500 W	1500 W	1500 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421212481	9421213481	9421214481	9421215481

Specification:

Model	LTF-313	LTF-314	LTF-315	LTF-316
Dimension (mm)	50x450	50x450	50x450	50x450
Maximum Temperature	1300°C	1300°C	1300°C	1300°C
Working Temperature	1250°C	1250°C	1250°C	1250°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	7 A	7 A	7 A	7 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	450	450	450	450
Maximum Power	1500 W	1500 W	1500 W	1500 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421216481	9421217481	9421218481	9421219481

Specification:

Model	LTF-317	LTF-318	LTF-319	LTF-320
Dimension (mm)	75x600	75x600	75x600	75x600
Maximum Temperature	1300°C	1300°C	1300°C	1300°C
Working Temperature	1250°C	1250°C	1250°C	1250°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	16 A	16 A	16 A	16 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	600	600	600	600
Maximum Power	3500 W	3500 W	3500 W	3500 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421220481	9421221481	9421222481	9421223481

Specification:

Model	LTF-321	LTF-322	LTF-323	LTF-324
Dimension (mm)	50x450	50x450	50x450	50x450
Maximum Temperature	1300°C	1300°C	1300°C	1300°C
Working Temperature	1250°C	1250°C	1250°C	1250°C
Thermal rate	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min	3°C/min-20°C/min
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Amperage (Imax)	16 A	16 A	16 A	16 A
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program memories	2	4	6	5
Heated Length (mm)	450	450	450	450
Maximum Power	3500 W	3500 W	3500 W	3500 W
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Catalog No.	9421224481	9421225481	9421226481	9421227481



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