TUBE FURNACE

Tube furnace LTF-A Series

Model of Labtron LTF-A series features high quality tube furnace that is ergonomically designed for easy operation and optimum insulation. It also consist advanced PID controller to ensure precise temperature control, durable heating resistors for a guaranteed uniform heating of the furnace up to 1100°C and low energy consumption. These furnaces are available with a wide dimension range.

Features:

- Total heating time and average working temperature are displayed
- Date and time settings available
- 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
- 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
- Temperature calibration correction via menu
- Waiting levels provided
- Auto start at the set date (year-month-day-time)
- Offset calibration via menu (±10°C)

Applications:

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, which may require enhanced thermal uniformity.

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Tube furnace LTF-A Series

Specification:

Model	LTF-A10	LTF-A11	LTF-A12	LTF-A13
Type	Basic	Extended	Basic	Extended
Heating Program	Direct/ two step	4	Direct/ two step	4
Program Memories	2	4	2	4
Amperage (Imax)	0.166666666666667		0.208333333333333	
Maximum Power	800 W		1000 W	
Dimension	20x250mm			
Maximum Temperature	1100°C			
Working Temperature	1075°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Heated Length (mm)	250mm			
Power Supply	220V/50Hz			

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Tube furnace LTF-B Series

Model of Labtron LTF-B Series provides superior quality tube furnace which is ergonomically designed for easy operation and optimum insulation. These equipment features latest PID controller to ensure precise temperature control, along with durable heating resistors that 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 userfriendly 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
- Temperature calibration correction via menu
- Waiting levels provided
- Auto start at the set date (year-month-day-time)
- Offset calibration via menu (±10°C)
- Heat rate settings at each program
- 16 stage heating program at 5th memory

Applications:

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, which may require enhanced thermal uniformity.

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Tube furnace LTF-B Series

Specification:

Model	LTF-B10	LTF-B11	LTF-B12	LTF-B13
Type	Basic	Extended	Ultimate	Superior
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Heated Length (mm)	250mm			
Dimension	20x250mm			
Maximum Temperature	1200°C			
Working Temperature	1150°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Amperage (Imax)	0.20833333333333			
Maximum Power	1000W			
Power Supply	220V/50Hz			

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Tube furnace LTF-B Series

Specification:

Model	LTF-B14	LTF-B15	LTF-B16	LTF-B17
Type	Basic	Extended	Ultimate	Superior
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Heated Length (mm)	400mm			
Dimension	20x400mm			
Maximum Temperature	1200°C			
Working Temperature	1150°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Amperage (Imax)	0.20833333333333			
Maximum Power	1000W			
Power Supply	220V/50Hz			

Tube furnace LTF-B Series

Specification:

Model	LTF-B20	LTF-B21	LTF-B22	LTF-B23
Type	Basic	Extended	Ultimate	Superior
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Heated Length (mm)	250mm			
Dimension	50x250mm			
Maximum Temperature	1200°C			
Working Temperature	1150°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Amperage (Imax)	0.291666666667			
Maximum Power	1500W			
Power Supply	220V/50Hz			

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Tube furnace LTF-B Series

Specification:

Model	LTF-B24	LTF-B25	LTF-B26	LTF-B27
Type	Basic	Extended	Ultimate	Superior
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Heated Length (mm)	450mm			
Dimension	50x450mm			
Maximum Temperature	1200°C			
Working Temperature	1150°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Amperage (Imax)	0.291666666667			
Maximum Power	1500W			
Power Supply	220V/50Hz			

Tube furnace LTF-B Series

Specification:

Model	LTF-B30	LTF-B31	LTF-B32	LTF-B33
Type	Basic	Extended	Ultimate	Superior
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Heated Length (mm)	600mm			
Dimension	75x600mm			
Maximum Temperature	1200°C			
Working Temperature	1150°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Amperage (Imax)	16A			
Maximum Power	3500W			
Power Supply	220V/50Hz			

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Tube furnace LTF-B Series

Specification:

Model	LTF-B34	LTF-B35	LTF-B36	LTF-B37
Type	Basic	Extended	Ultimate	Superior
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Heated Length (mm)	800mm			
Dimension	75x800mm			
Maximum Temperature	1200°C			
Working Temperature	1150°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Amperage (Imax)	16A			
Maximum Power	3500W			
Power Supply	220V/50Hz			

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Tube furnace LTF-C Series

Model of Labtron LTF-C Series delivers ergonomically designed tube furnace for easy operation and optimum insulation. The advanced PID controller ensures precise temperature control and durable heating resistors to 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 userfriendly 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
* Temperature calibration correction via menu
* Waiting levels provided
* Auto start at the set date (year-month-day-time)
* Offset calibration via menu (Â± 10Â°C)

Applications:

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, which may require enhanced thermal uniformity.

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Tube furnace LTF-C Series

Specification:

Model	LTF-C10	LTF-C11	LTF-C12	LTF-C13
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Dimension	20x250mm			
Amperage (Imax)	0.20833333333333			
Working Temperature	1250°C			
Maximum Temperature	1300°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Capacity	5Litres			
Heated Length (mm)	250mm			
Maximum Power	1000W			
Power Supply	220V / 50Hz			

Tube furnace LTF-C Series

Specification:

Model	LTF-C14	LTF-C15	LTF-C16	LTF-C17
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Dimension	20x400mm			
Amperage (Imax)	0.20833333333333			
Working Temperature	1250°C			
Maximum Temperature	1300°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Capacity	5Litres			
Heated Length (mm)	400mm			
Maximum Power	1000W			
Power Supply	220V / 50Hz			

Tube furnace LTF-C Series

Specification:

Model	LTF-C20	LTF-C21	LTF-C22	LTF-C23
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Dimension	50x250mm			
Amperage (Imax)	0.29166666666667			
Working Temperature	1250°C			
Maximum Temperature	1300°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Capacity	5Litres			
Heated Length (mm)	250mm			
Maximum Power	1500W			
Power Supply	220V / 50Hz			

Tube furnace LTF-C Series

Specification:

Model	LTF-C24	LTF-C25	LTF-C26	LTF-C27
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Dimension	50x450mm			
Amperage (Imax)	0.291666666666667			
Working Temperature	1250°C			
Maximum Temperature	1300°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Capacity	5Litres			
Heated Length (mm)	450mm			
Maximum Power	1500W			
Power Supply	220V / 50Hz			

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Tube furnace LTF-C Series

Specification:

Model	LTF-C30	LTF-C31	LTF-C32	LTF-C33
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	8
Dimension	75x600mm			
Amperage (Imax)	16A			
Working Temperature	1250°C			
Maximum Temperature	1300°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Capacity	5Litres			
Heated Length (mm)	600mm			
Maximum Power	3500W			
Power Supply	220V / 50Hz			

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Tube furnace LTF-C Series

Specification:

Model	LTF-C34	LTF-C35	LTF-C36	LTF-C37
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Dimension	50x450mm			
Amperage (Imax)	16A			
Working Temperature	1250°C			
Maximum Temperature	1300°C			
Thermal Rate	3°C/min-20°C/min			
Temp. Accuracy	±1°C			
Capacity	5Litres			
Heated Length (mm)	450mm			
Maximum Power	3500W			
Power Supply	220V / 50Hz			

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