

www.magmatherm.com

PRODUCT DATA SHEET



MTTFSiC Series Furnaces



High Temperature Tube Furnaces

Data Sheet & Order Manual 1400°C-1550°C



4 Line Display



In need of homogeneous temperature distribution or reliable gas protective atmosphere tube furnaces are the best solution.

- Specifically engineered for absolute accuracy of temperature measurement.
- Optional gas inlet and purge systems for protective gas atmosphere.
- Thermal shock resistant tubes.
- Precise temperature control for a wide range of working temperature.
- $\pm 1^\circ\text{C}$ control accuracy

Product Group	Working Temperature	Tube Inner Diameter [mm]	Hot Zone Length Options [mm]	Software Options
MTTFSiC	1400 °C 1500 °C 1550 °C	75	600	E4, U8, S16

How to Choose/Order Your MagmaTherm Furnace

STEP 1

Choose maximum working temperature:

First step is deciding your purpose of use. Please determine the maximum working temperature you need and go to its data sheet accordingly.

Most of the time it is a wise decision to choose a furnace which works at a higher temperature than you plan to use. Using the furnace below maximum temperature remarkably extends the lifetime of heating elements and saves you money.

STEP 2

Choose volume:

While choosing ideal volume for your furnace keep in mind that your sample should enough space in your furnace.

STEP 3

Choose control unit and software:

Do you need direct or stepped heating ? How sophisticated programs do you want to setup? Do you want to store frequently used programs?

PID controlled software is the key element for maximising the capability of your furnace.

STEP 4

Choose optional features:

There are many optional features you can add to your MagmaTherm furnaces. You can customize it according to your needs.

STEP 5

Choose spare parts:

You can choose which spare parts you want with your furnace to be able to repair fast on your own.

Manuals for easy installation comes with all spare parts.

STEP 6

Choose accessories:

You will most likely need gloves, tongs, crucibles and other accessories.

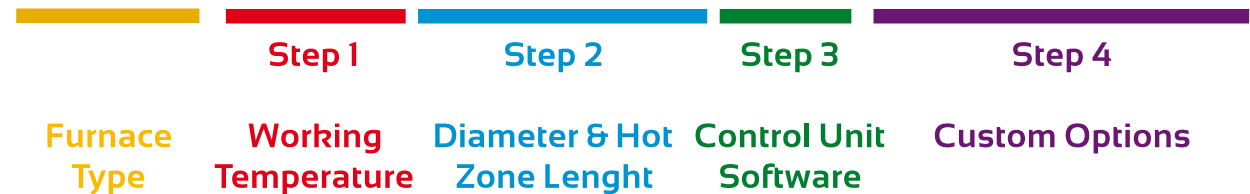
STEP 7

Create your order code and fill out your order form:

Create an order amount and order code for each MagmaTherm furnace. Fill out the order form and send an email to magma@magmatherm.com for quotation.

Sample MagmaTherm Furnace Product/Order Code

MTTFSiC-1750-50-200-S16-GS-OTL-PC



STEP 1 & STEP 2



STEP 1 Choose Your Maximum/Continuous Working Temperature

1400°C

STEP 2 Choose Your Volume

Voluma Model	75-600
Tube Inner Diameter [mm]	75
Tube Outer Diameter [mm]	85
Hot Zone Length [mm]	600
± 10°C Homogeneous Hot Zone Lenght [mm]	600
Tube Lenght[mm]	950
Tube Material Description	Type C799 (DIN VDE 0335) Al2O3 content 99,7%
Product Outer Dimensions [mm] WxDxH	W 950 D 500 H 765
Net Weight [kg]	60
Gross Dimensions [mm] WxLxD	W 1050 D 600 H 875
Gross Weight [kg]	75
Tube Lenght With GS [mm]	1150
Product Outer Dimensions With GS [mm] WxDxH	W 1150 D 500 H 765
Net Weight With GS [kg]	63
Gross Dimensions With GS [mm] WxLxD	W 1250 D 600 H 865
Gross Weight With GS [kg]	78
Power [W]	5.750
Max. Current [A]	2x13
Heating Element	SiC
Thermocouple Type	S Type
Available Software Versions	E4, U8, S16
Control Unit	Standard MT Control Unit with phase angle firing power unit
Inner Insulation Material	High Purity Ceramic Fibre Board
Housing Material	Steel Sheet
HousingCoating	Epoxy powder coating

*Tetra ISI Sistemleri has always right to change specifications and design features.

STEP 1 & STEP 2



STEP 1 Choose Your Maximum/Continuous Working Temperature

1500°C

STEP 2 Choose Your Volume

Voluma Model	75-600
Tube Inner Diameter [mm]	75
Tube Outer Diameter [mm]	85
Hot Zone Length [mm]	600
± 10°C Homogeneous Hot Zone Lenght [mm]	600
Tube Lenght[mm]	950
Tube Material Description	Type C799 (DIN VDE 0335) Al2O3 content 99,7%
Product Outer Dimensions [mm] WxDxH	W 950 D 500 H 765
Net Weight [kg]	65
Gross Dimensions [mm] WxLxD	W 1050 D 600 H 875
Gross Weight [kg]	80
Tube Lenght With GS [mm]	1150
Product Outer Dimensions With GS [mm] WxDxH	W 1150 D 500 H 765
Net Weight With GS [kg]	68
Gross Dimensions With GS [mm] WxLxD	W 1250 D 600 H 865
Gross Weight With GS [kg]	83
Power [W]	6.300
Max. Current [A]	2x15
Heating Element	SiC
Thermocouple Type	S Type
Available Software Versions	E4, U8, S16
Control Unit	Standard MT Control Unit with phase angle firing power unit
Inner Insulation Material	High Purity Ceramic Fibre Board
Housing Material	Steel Sheet
HousingCoating	Epoxy powder coating

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STEP 1 & STEP 2



STEP 1 Choose Your Maximum/Continuous Working Temperature	
1550°C	
STEP 2 Choose Your Volume	
Voluma Model	75-600
Tube Inner Diameter [mm]	75
Tube Outer Diameter [mm]	85
Hot Zone Length [mm]	600
± 10°C Homogeneous Hot Zone Lenght [mm]	600
Tube Lenght[mm]	950
Tube Material Description	Type C799 (DIN VDE 0335) Al2O3 content 99,7%
Product Outer Dimensions [mm] WxDxH	W 950 D 500 H 765
Net Weight [kg]	65
Gross Dimensions [mm] WxLxD	W 1050 D 600 H 875
Gross Weight [kg]	80
Tube Lenght With GS [mm]	1150
Product Outer Dimensions With GS [mm] WxDxH	W 1150 D 500 H 765
Net Weight With GS [kg]	68
Gross Dimensions With GS [mm] WxLxD	W 1250 D 600 H 865
Gross Weight With GS [kg]	83
Power [W]	6.800
Max. Current [A]	2x16
Heating Element	SiC
Thermocouple Type	S Type
Available Software Versions	E4, U8, S16
Control Unit	Standard MT Control Unit with phase angle firing power unit
Inner Insulation Material	High Purity Ceramic Fibre Board
Housing Material	Steel Sheet
HousingCoating	Epoxy powder coating

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STEP 3



STEP 3

Choose CU Software	EXTENDED E4	ULTIMATE U8	SCIENTIFIC S16
Software Based PID Control	YES	YES	YES
Display	4x20 LCD	4x20 LCD	4x20 LCD
Heating Program with	4 steps	8 steps	16 steps*
Custom Preset Program	4	6	5
Heating Rate °C/min.	3-20	3-20	3-20**
Date & Time	YES	YES	YES
Auto Start at Certain Date	YES	YES	YES
Show Remaining Waiting Time	YES	YES	YES
Skip the Waiting Step	YES	YES	YES
Temperature Calibration via Menu (±10°C)	YES	YES	YES
Sound Warnings at Step Changes	YES	YES	YES
Sound Warning at the End of the Program	YES	YES	YES
Total Working Hour Counter	YES	YES	YES
Calculator for Average Working Temperature	YES	YES	YES
Instantaneous Energy Consumption Indicator	YES	YES	YES
Current and Target Temperature Display	YES	YES	YES
Step Indicator	YES	YES	YES
Burst Heating Mode	YES	YES	YES
Descriptive Error Indicator	YES	YES	YES
Temperature Control Accuracy***	±1°C	±1°C	±1°C
Measurement Accuracy	±1°C	±1°C	±1°C
Inner Volume Temperature Homogenity	±10°C	±10°C	±10°C
Control Unit Overheating Sensor	YES	YES	YES
Over Heating Cut Off	YES	YES	YES
Open Door Sensor	OPTIONAL	OPTIONAL	OPTIONAL
PC Connection Kit	OPTIONAL	OPTIONAL	OPTIONAL
Warranty Period	2 Years	2 Years	2 Years
* Only 5th memory supports 16 levels **Independent for each level ***Can vary at low temperatures			



STEP 4 & 5 & 6



STEP 4

Choose Optional Features	OTL	GS	TC2	PC	PS
Code Stands for	Over Temperature Limiter	Gas Supply Connection	Second Thermocouple	PC Connection	110V Power Supply
Description	Over-temperature limiter with manual reset for thermal protection class 2 in accordance with EN 60519-2	With gas supply you can either supply more air to burn better or achieve a protective atmosphere.	Menu accessed 3 selectable functions for TC2: 1) Average temperature calculation with first thermocouple. 2) Thermostat 3) Monitoring	PC connection kit comes with its driver and own software. Can be used as independent data logger, logging data from up to 5 thermocouples.	You can choose 110V power supply.
Image					

STEP 5

Choose Spare Parts	Control Card	Power Card	Display	Tube
Description	Easy to replace, Pre-programmed	Easy to replace	4x20 LCD display	Type C799 (DIN VDE 0335) Al2O3 content 99,7%

MagmaTherm furnaces are built for easy maintenance. Each part can be replaced by anyone who has basic repair abilities. Modular design and detailed fool proof video tutorials helps fast repair in case of need. You can download or watch video tutorials on www.magmatherm.com with your given password.

All of our products are passed through quality control. Therefore Magmatherm Furnaces have **2 year warranty period** except user related damages. For proper use and avoiding such problems it is very important to read user manual and operate your furnace under right circumstances.

STEP 6

Choose Accessories	High Temperature Gloves	Tongs	Alumina Crucibles	Metal Crucibles	Alumina Combustion Boats	Seramic Pipes	Extra Thermocouples
Image							

General Product Overview



Tube Furnaces Overview										
Product Group	Working Temperature	Tube Inner Diameter [mm]	Hot Zone Length Options [mm]							Software Options
			200	250	300	450	500	600	800	
MTTF	1100°C, 1200 °C, 1250°C	20		■						B2, E4, U8, S16
		38				■				
		50			■	■		■		
		75				■		■	■	
		100					■		■	
MTTFSiC	1400°C, 1500°C, 1550°C	50			■	■		■		E4, U8, S16
		75				■		■	■	
		100					■		■	
MTTFMo	1600°C, 1700 °C, 1750°C	50	■		■	■		■		E4, U8, S16
		75				■		■	■	
		100					■		■	

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Worldwide Sales

MagmaTherm furnaces are used over 30 countries over the world. Your satisfaction motivates us to grow every day.

Turkey
Holland
Germany
England
France
Italy
Poland
Austria
Greece

Spain
Portugal
Morocco
Algeria
Libya
Egypt
Iraq
Saudi Arabia
UAE

Azerbaijan
Georgia
Kazakhstan
Turkmenistan
China
Malaysia
Thailand
Indonesia
South Korea

Japan
India
Pakistan
Philippines

...and growing

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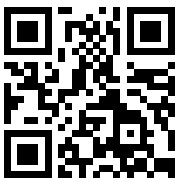


Tetra Isı Sistemleri

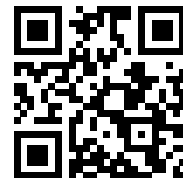
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PDF Catalogue (5MB)



Web Site Address