

# Primary Muffle Furnaces

Data Sheet & Order Manual 950°C-1100°C



## Primary Muffle Furnaces



Primary models are ideal furnaces to work at up to 1100 °C continuous processes.

They are economic models with optimum insulation properties and basic control options.

- *Best price-performance ratio*
- *Dual shell housing for low outer surface temperature*
- *Ideal for ashing of food, plastic and other organic materials*
- *Reliable*
- *New monoblock body design*

Product Group	Working Temperature	Volume Options	Software Options
ECF	950 °C	3 [Liter]	Px
	1000 °C	5, 8, 20 [Liter]	
	1100 °C		

## How to Choose/Order Your 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 be at least 25mm away from each wall.

### 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 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 furnace.

# STEP 1 & STEP 2

STEP 1 Choose Your Maximum/Continuous Working Temperature	
950°C	
STEP 2 Choose Your Volume	
	3 Liter
Inner Chamber Dimensions [mm] WxHxD	130x105x230
Product Outer Dimensions [mm] WxHxD	336x434x533
Net Weight [kg]	25
Power [W]	1500
Max. Current [A]	7
Electrical Connection	1 Phase
Heating Element	Fe-Cr-Al
Thermocouple Type	K Type
Heating Element Placement	Embedded into brick walls
Inner Insulation Material	Insulating Fire Brick
Front Face Insulation Material	Ceramic Fibre Board
Door Insulation Material	Ceramic Fibre Board
Housing Material	Steel Sheet
Housing Coating	Epoxy powder coating
Chimney	Standard
Heating Element Protection	Quartz Tube
Lockable Door Handle	Sidewards
Gross Dimensions [mm] WxHxD	420x620x620
Gross Weight [kg]	35

STEP 1 Choose Your Maximum/Continuous Working Temperature			
1000°C			
STEP 2 Choose Your Volume			
	5 Liter	8 Liter	20 Liter
Inner Chamber Dimensions [mm] WxHxD	150x150x225	180x160x260	200x180x300
Product Outer Dimensions [mm] WxHxD	376x559x435	406x569x470	426x589x510
Net Weight [kg]	24	28	34
Power [W]	2.000	2.600	3.400
Max. Current [A]	9,1	11,9	15,5
Electrical Connection	1 Phase	1 Phase	1 Phase
Heating Element	Fe-Cr-Al	Fe-Cr-Al	Fe-Cr-Al
Thermocouple Type	K Type	K Type	K Type
Heating Element Placement	Embedded into brick walls	Embedded into brick walls	Embedded into brick walls
Inner Insulation Material	Insulating Fire Brick	Insulating Fire Brick	Insulating Fire Brick
Front Face Insulation Material	Ceramic Fibre Board	Ceramic Fibre Board	Ceramic Fibre Board
Door Insulation Material	Ceramic Fibre Board	Ceramic Fibre Board	Ceramic Fibre Board
Housing Material	Steel Sheet	Steel Sheet	Steel Sheet
Housing Coating	Epoxy powder coating	Epoxy powder coating	Epoxy powder coating
Chimney	Standard	Standard	Standard
Heating Element Protection	Quartz Tube	Quartz Tube	Quartz Tube
Lockable Door Handle	Sidewards	Sidewards	Sidewards
Gross Dimensions [mm] WxHxD	436x595x619	466x630x629	486x670x649
Gross Weight [kg]	36	41	49

# STEP 1 & STEP 2

STEP 1 Choose Your Maximum/Continuous Working Temperature			
1100°C			
STEP 2 Choose Your Volume			
	5 Liter	8 Liter	20 Liter
Inner Chamber Dimensions [mm] WxHxD	150x150x225	180x160x260	200x180x300
Product Outer Dimensions [mm] WxHxD	376x559x435	406x569x470	426x589x510
Net Weight [kg]	24	28	34
Power [W]	2.000	2.600	3.400
Max. Current [A]	9,1	11,9	15,5
Electrical Connection	1 Phase	1 Phase	1 Phase
Heating Element	Fe-Cr-Al	Fe-Cr-Al	Fe-Cr-Al
Thermocouple Type	K Type	K Type	K Type
Heating Element Placement	Embedded into brick walls	Embedded into brick walls	Embedded into brick walls
Inner Insulation Material	Insulating Fire Brick	Insulating Fire Brick	Insulating Fire Brick
Front Face Insulation Material	Ceramic Fibre Board	Ceramic Fibre Board	Ceramic Fibre Board
Door Insulation Material	Ceramic Fibre Board	Ceramic Fibre Board	Ceramic Fibre Board
Housing Material	Steel Sheet	Steel Sheet	Steel Sheet
Housing Coating	Epoxy powder coating	Epoxy powder coating	Epoxy powder coating
Chimney	Standard	Standard	Standard
Heating Element Protection	Quartz Tube	Quartz Tube	Quartz Tube
Lockable Door Handle	Sidewards	Sidewards	Sidewards
Gross Dimensions [mm] WxHxD	436x595x619	466x630x629	486x670x649
Gross Weight [kg]	36	41	49



Control Unit of 950°C Primary Furnaces is placed above the furnace. Therefore 950°C furnaces have different shape than other prmiary models.