

# Muffle Furnaces



## Electric Muffle Furnaces "Select-Horn-TFT"

TEMPERATURE CONTROLLABLE UP TO 1150 °C.  
 SET ACCURACY: ±1 °C OF THE SET VALUE. RESOLUTION: 1 DIGIT.  
 DIGITAL ELECTRONIC CONTROLLER FOR TEMPERATURE AND TIME WITH TFT COLOUR TOUCH SCREEN.  
 UP TO 10 PROGRAMMABLE TEMPERATURE PROFILES.

### SAFETY:

PROBE BREAK DISCONNECTS THE POWER TO THE FURNACE AUTOMATICALLY.  
 MICROSWITCH THAT DISCONNECTS THE POWER OF THE HEATER ELEMENTS WHEN THE DOOR IS OPEN.  
 FLIP DOOR THAT CAN ALSO BE USED AS A SUPPORT TRAY AND USER PROTECTED FROM THE HOT INTERNAL SURFACE.

### APPLICATIONS

Incineration processes, drying, degradation, re-heating, thermal treatments etc.

### FEATURES

Interior chamber constructed from high quality lightweight refractory bricks, with a high alumina content with no asbestos or iron oxide.  
 Evenly distributed exceptional long life heating elements, annealed frequently at a high fusion point.  
 Excellent thermal insulation made from Ceramic fibre of low density and thermal conductivity.  
 Low consumption with maximum performance.  
 Rapid temperature recovery after the door has been opened.  
 Flap door with easy to change components.  
 Support tray made from special steel used as a base to support assay material.  
 USB output.



### CONTROL PANEL

#### General

Main switch.  
 TFT touch screen 4.3".  
 Clock calendar.  
 Two working modes, normal or programming.  
 SPA – FRE – ENG menu.  
 Self-test on starting.  
 Temperature control auto-tuning.  
 °C/°F selection.

#### Type K probe.

#### Normal mode

Set point temperature selection  
 Up ramp.  
 Stability time from 1 min to 99h or continuous.

#### Programming mode

10 profiles capacity.  
 6 segments per profile.  
 Stability time in each segment from 1 min to 99h (or continuous in the last segment)  
 Up ramps between segments.  
 Daily - weekly On / Off programming.



Temperature ramps graph

#### Alarms

Network failure detection alarm.  
 Probe error detection alarm.  
 Over temperature and low temperature alarms.  
 Visual audible warning alarms.  
 Up to 100 alarms storage (date, start time, end time and alarm type).

#### Datalogging

Datalogging memory up to 15000 data.  
 Logging interval from 5 seconds to 30 min.  
 Data download via USB.



Image of the flap door system in operation.

### MODELS

Part No.	Capacity litres	Height / Width / Width (interior) cm	Height / Width / Depth (exterior) cm	Power W	Weight Kg
2000376	3.6	10 15 24	52 54 56	2500	54
2000377	9	15 20 30	58 59 65	3000	70

Supplied complete with support tray, made from annealed steel.

### SPARES

Support tray made from special steel used as a base to support assay material.  
 Code **0203681** for furnace Part No. 2000376  
 Code **0203692** for furnace Part No. 2000377



### ACCESSORIES

Adaptable only for "Select-Horn-TFT" furnaces Part No. 2000376 and 2000377  
 All accessories need to be fitted in the factory prior to delivery.



#### Exterior exhaust tube.

Located at the furnace back with a ventilator motor to extract gases and vapours.  
 With an 80 mm Ø hat adapter.  
 Gases and Vapours can be extracted outside through the connecting tube.  
 Power consumption: 30 W.  
 Part No. **2001477**

### COMPLEMENTS



#### Gloves Thermal "Kevlar 800"

Conforms to EN 388, EN407 and EN420 standards.  
 For use with temperatures up to 800 °C, Made from seamless terry knit, with double face fibres, high level of protection against heat and flame.  
 Length 36 cm, universal fit.  
 Part No. **5000042**



#### Crucible tongs.

With thermally protected plastic coated handles. With bow, curved tips.  
 Part No. **1001590** Total length 220 mm.  
 Part No. **1001591** Total length 330 mm.



Crucibles made of zirconium Zr.  
 Crucibles made of pure nickel Ni.  
 Crucibles made of glazed porcelain.  
 Crucibles made of stainless steel.  
 Crucibles made of quartz.  
 (See page 181).