



Muffle furnace

매몰식전기로

Features

- Fuzzy function to prevent overheat.
- Accurate temperature controls by Digital PID controller.
- Controller select time scale.
(59 minute 59 second, 99 hour 59 minute, 99 day 23 hour)
- In case of temperature sensor disconnection, error message appear.
- Alarm rings when timer end.
- In case of difference between real temperature and appeared temperature, user can adjust correctly.
- When controller setting value is changed by the mistake of operation, save and recall function can restore it easily.
- High temperature test up to 1000C
- High performance heat insulation by the molded ceramic block and quick reach to high temp.
- Air vent port is installed between the ceramic fiber heat shield and furnace exterior case and it prevents exterior heating.
- Insulation support to prevent internal pollution and damage.

Specifications

Made in Korea

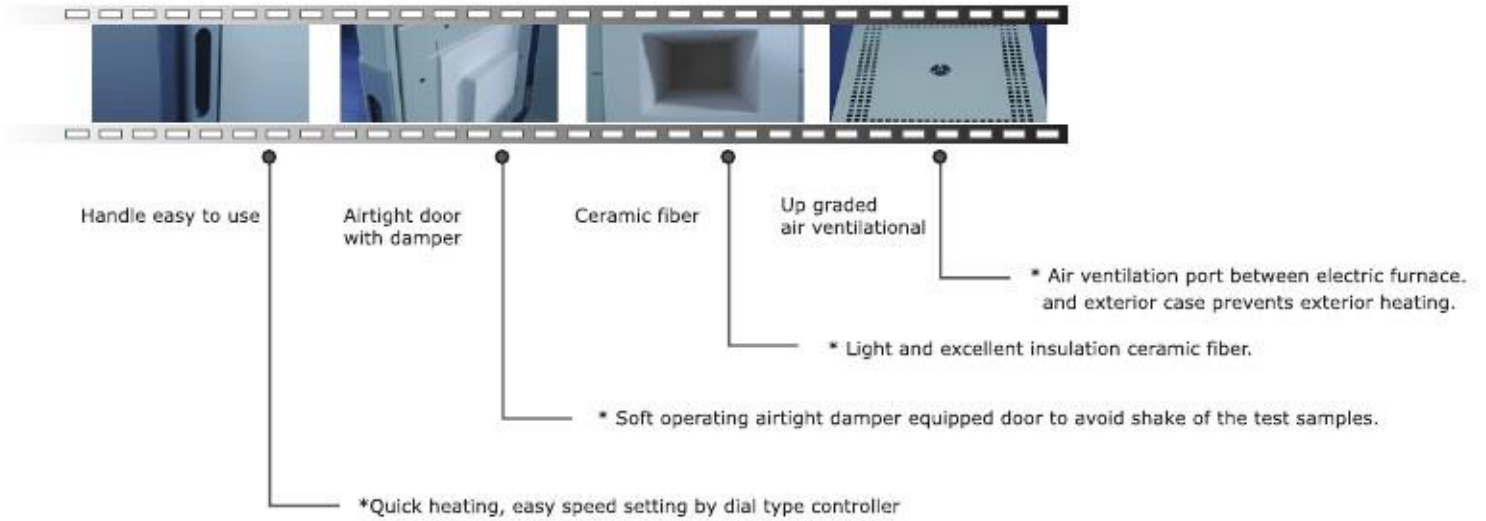
Spec. / Model		MF-03	MF-05	MF-12	MF-14	MF-27
Temp	Range	Max 1200 °C (Max working range 1000 °C)				
	Controller	Digital PID Controller				
Size	Internal (WxDxH, mm)	130x250x90	150x300x100	200x300x200	250x350x160	300x300x300
	External (WxDxH, mm)	410x485x510	420x535x520	470x530x630	520x580x580	570x530x750
Safety	Electrical	ELB (Earth Leakage circule breaker)				
Material	Internal	Molded ceramic block				
	External	Steel, power coating				
	Heater	Kantal				
	Insulation	Ceramic fiber				
Electric Requirements		220VAC, 50/60Hz				
Power Consumption		1800W	2600W	4400W	4600W	6200W

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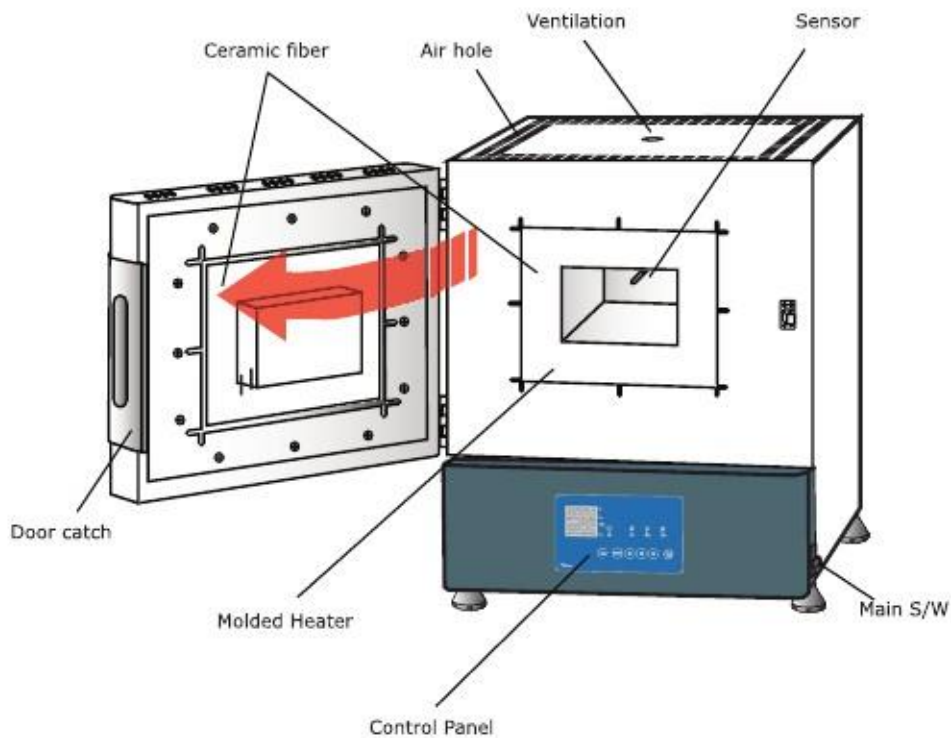
www.hysc.co.kr

매몰식전기로

Distinction



Structure



MUFFLE FURNACE

Essentials of new material development research



For high temperature experimental heat treatment

Furnace

New material development, super conductive material experiment, ceramic sintering, heat treatment, Melting of glass, dissolution of metal, casting molding, heat treatment reaction experiment, etc. Can be used for various purposes.

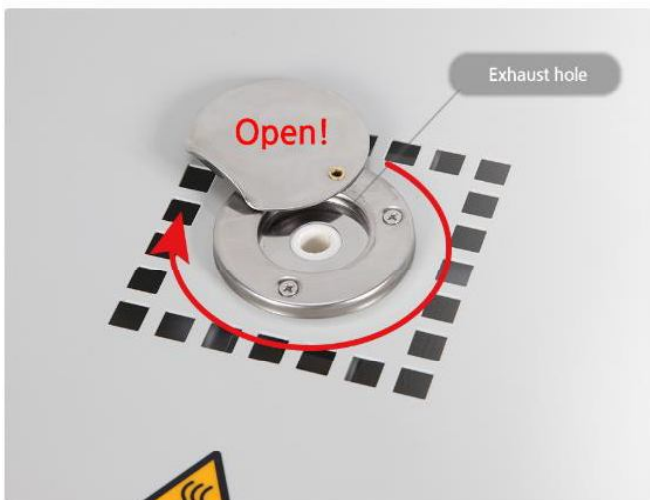


Ceramic fiber with excellent heat insulation and workability
Refractories refined by vacuum forming



To protect the refractory floor
Safety plate

Place the sample on the plate and use it.



Exhaust hole for internal gas ejection
(exhaust port)

Be sure to keep it **open** during operation

Safety

- ELB (Earth Leakage Circuit Breaker) is built in to prevent short circuit.
- Double structure minimizes heat going outside from the equipment.
- Ventilation structure for temperature control.



ELB (Earth Leakage Circuit Breaker)

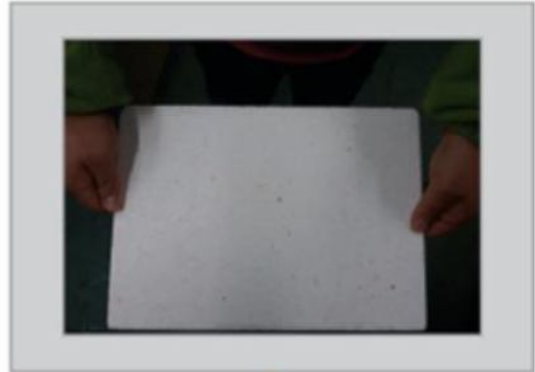
Floor Plate

- Plate to protect the floor insulation.

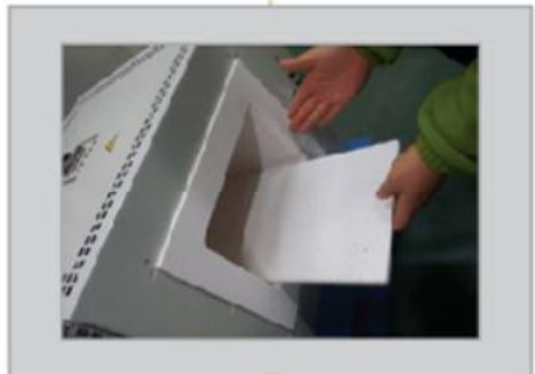
〈MF-03, MF-05〉



〈MF-12, MF-14〉



1. Plate

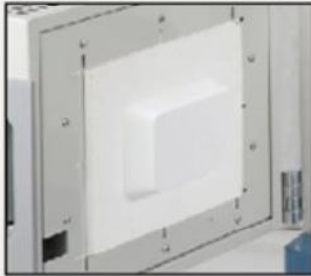


2. Put the floor plate in the chamber.



3. floor plate is set.

Spring Door



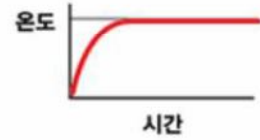
The door made up of a spring structure minimizes heat loss.

Insulation Protection



Insulation Protection : floor plate is basically offered for preventing from breakage and contamination of floor insulation

PID controller



Digital PID controller is built in for precise temperature control.

Current temperature display

Configured temperature display

Basic setting

HHMM (Hour, Minute)
MMSS (Minute, Second)
DD.MM (Date, Month)

Operation indicator lamp

Heater output lamp

Time operation lamp

Auto-tuning lamp

AT(Auto tuning) : Auto tuning (press for 5 seconds)

Start and stop (press for 2 seconds)

Select temperature setting mode

Temperature Setting Key

