

Mono-Arc Furnace

model GMAF-7252

[Outline]

This device melts and purifies high-melting-point materials by arc discharge under an inert atmosphere. It is suitable for preparation of samples for physical property research.

[Characteristics]

- 1) Can melt high-melting-point materials
- 2) Can easily provide a high-vacuum atmosphere
- 3) Can be maintained easily by opening the front door

[Basic Specification]

- 1) Main chamber of the arc furnace

Structure	stainless steel (water-cooled two-tier structure)
Working pressure range	5×10^{-6} Torr - 1 atm
Vacuum leak rate	less than 1×10^{-9} atm.cc/s (helium He)
- 2) Power source
electronic power for arc (150 A)
- 3) Arc electrode sealed by bellows

Electrode architecture	made of copper with a water-cooled tungsten electrode (sealed by bellows)
Crucible	casting two button shaped materials and several other shapes.

[Options]

- Vacuum systems
- Titanium getter

[Machine overview]



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