

Crucible Furnaces GM, Gas or Oil Fire, For Melting and Holding



GM120/12



GM180/12



Digital Controller Panel burner



Two-Step gas burner for low-load and high-load mode



Emergency outlet for the safe draining of melting in case of crucible breakage

The gas or oil fired crucible furnaces of the GM series are characterized by their high melting performance. They are the work horse for melting operation but also for holding of aluminum and zinc. The use of high-quality insulation materials results in very low power consumption. The two-step burner can be laid out for either gas operation or oil operation.

- * GM./12 with maximum furnace chamber temperature of 1200°C degree for aluminum or zinc
- * Fuel heating using gas or oil
- * Two-step power regulation: high load for melting operation, low load for holding mode, with automatic switching
- * Positive pressure in the furnace chamber keeps air out for high-efficiency operation
- * Gas system consisting of pressure regulator, gas filter, manometer, and solenoids.
- * Burner flame continuously monitored
- * Burner technology with service-friendly construction, e.g. Flame head easily removable when the burner swung out
- * Burner technology manufactured in compliance Italy.
- * High melting power due to powerful burner and high-quality insulation.
- * Multi-layer insulation with lightweight refractory bricks on the hot face, 1400°C degree.
- * Emergency outlet for safe draining of the melt in case of crucible breakage.
- * Side exhaust gas discharge for GM./12
- * Thermocouple check temperature liquid on crucible furnace.

Additional Equipment

- * Crucible of clay-graphite or SiC with high thermal conductivity
- * Side exhaust gas discharge with swing of flap lid, with the following features:
 - high melt quality due to lower burnoff
 - lower hydrogen absorption in the melt
 - reduction of power consumption due to swing lid in holding mode
 - operator exposed to less heating the area above the crucible
 - about 20% lower melting performance compared with exhaust gas discharge over the crucible edge
- * Insulated connection piece for side exhaust gas discharge to connect exhaust ductwork

Model	Tmax C degree	Burner rating kW	Capacity Kg Al	Melting Performance kg/hr Al	Consumption holding lid closed KW/h	Use Melting KWh/hg Al
GM 80/12	1200	180	200	140	10	1.3~1.5
GM 100/12	1200	180	250	140	11	1.3~1.5
GM 120/12	1200	210	300	150	13	1.3~1.5
GM 180/12	1200	300	500	270	17	1.3~1.5