

MAS-3 Assay Modular Furnace

The MAS-3 assay modular furnace (formerly known as "William & Wilson") is well known in the mining industry across North America, as well as in other locations worldwide.

The solid construction, durable features, and dependable, continuous operation have allowed the furnace to become the criterion for quality for over 50 years. We continue this standard of excellence with ongoing technical improvements.



**THIS FURNACE CAN BE USED FOR
FUSION AS WELL AS CUPELLATION**



FEATURES

- Modular Design. Allows the top module to be replaced with a new module complete with brickwork made by the original manufacturer. This saves downtime and giving you a furnace chamber made to manufacturer's specifications.
- Silicon carbide fire glazed hearth plate
- Synthetic mullite muffle resists corrosive fumes
- High-quality firebrick and insulating refractories
- Four non-metallic silicon carbide heating elements running from front to back beneath hearth plate
- Heating element terminal compartments provided at front & back with doors and locks to prevent unauthorized access
- Power and control accessories wired in base of furnace
- 4-wire, platinum, type-R thermocouple enclosed in a ceramic protection tube is provided
- Two digital temperature controllers. The first controller maintains constant operating temperature. The second, high-limit controller is provided as a safety feature
- Ammeter to monitor heating element resistance
- Manually operated door vent and chamber roof vent ensures adequate airflow through the furnace chamber
- Foot-operated, counter-weighted door (electric operating door optional)
- CSA approved

SPECIFICATION	
Part Number	CA11023-368
Overall Dimensions	107 cm (42") x 117 cm (46") x 198 cm (78") W x D x H
Work Dimensions	Width 44.4 cm (17.5"), Depth 56 cm (22")
Height at center of arch	28.5 cm (9")
Height at sides of arch	17.5 cm (7")
Capacity	42 x 15 g crucibles
	35 x 20 g crucibles
	30 x 30 g crucibles
	30 x 40 g crucibles
	20 x 50 g crucibles
Power Requirements	Maximum connecting load 20 kW on 220-440-575 V, single or three phase, 60 Hz.
Weight	909 kg (2000 lbs)
Operating Temperature	1 080°C (2000°F) Higher temperature furnaces available upon request.

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