

**Electrically Heated Crucible Furnace,
for Melting and Holding Aluminium
Model CFE-500, CFE-1000**



Low Energy Consumption

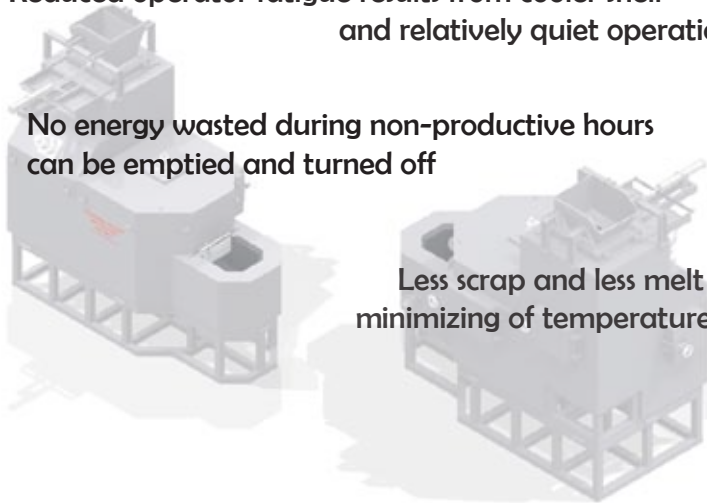
Minimum Floor Space

Exceptional Thermal Efficiency

Reduced operator fatigue results from cooler shell
and relatively quiet operation

No energy wasted during non-productive hours
can be emptied and turned off

Less scrap and less melt loss due to
minimizing of temperature overshoot



Other Furnace Products



Auto Pouring Machine



Central Melter



Diecasting Furnace

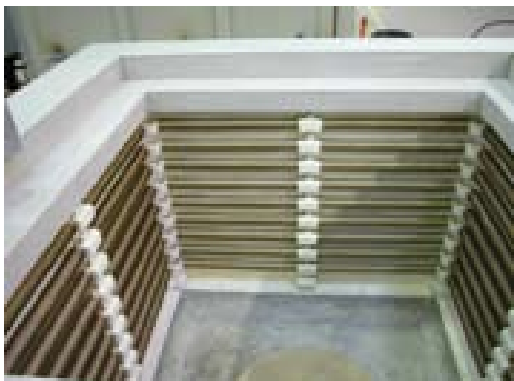


Aluminium Melting & Holding Furnace

Electrically Heated Crucible Furnace

The electrically heated crucible furnaces are characterized by a good melting performance with excellent temperature uniformity in the melt. In the 1100 °C version, aluminum can be melted. Maximum furnace chamber temperature of 1100 °C for aluminum.

- Four-side heating using electric heating elements, freely radiating on carrier tubes.
- Simple replacement of individual heating elements. In case of crucible breakage, only the defective heating elements on each level need to be replaced.
- Heating of furnaces with contactors.
- High melting performance with uniform temperature distribution in the melt.
- Insulation constructed in multiple layers with lightweight refractory bricks on the hot face.
- Insulation constructed in multiple layers with fiber material in the side walls and corner bricks to support heating elements.
- Emergency outlet for safe draining of the melt in case of crucible breakage.
- No exhaust gas discharge needed.
- Integrated monitoring system which continues to operate the furnace at reduced power in case of malfunction in the bath thermocouple, in order to prevent the freezing of the melt
- Temperature limiter controller in furnace chamber for protection against overheating. The limiter switches the heating off when the set limit temperature is reached, and only switches it back on after the temperature has fallen again
- Furnace chamber control with temperature measurement behind the crucible, recommended for melting
- Crucible of clay-graphite or SiC with high thermal conductivity



Four side heating for excellence temperature uniformity



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

Additional Equipment

- Bath control with thermocouples in the furnace chamber and in the melt. The furnace temperature is controlled through the melt. Temperature overshoots are reduced, thus the quality of the melt is improved
- Higher electrical ratings to increase melting performance

Model	Max Temp °C	Aluminium Capacity kg	Exterior dimensions in mm			Power kW	Weight kg	Melting Performance Kg/hr Al	Holding Lid Open kW
			W	D	H				
CFE 500	1100	500	1400	1400	1210	70	1200	150	15
CFE 1000	1100	1200	1710	1490	1700	100	2200	200	20

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