



Features

- Power regulation (10 – 100%) with power bar-graph indicator.
- Advanced digital controls with service and diagnostics features.
- Temperature controller – works with a thermocouple probe or optional IR pyrometer.
- Optional transformer for 3-phase/230V AC line requirements.

Our UltraMelt 12/16 is an induction melting furnace perfect for melting any precious or non-precious metals and alloys.

Fast induction melting is possible with an advanced circuit with low energy consumption.

Flexible systems can be configured to melt different metals and alloys.

Temperature control for preventing overheating and burning of the metal (thermocouple probe or IR pyrometer).

Stainless steel front with a high-temperature top cover ensures prolonged heavy-duty use.

Reliable equipment, easy to install, maintain, and service.

Benefits

- Induction Melting Furnace provides improved energy efficiency – heat only when needed
- Higher degree of controllability
- Process repeatability
- Low maintenance requirements
- Increased productivity

Applications

Induction Melting of Metal, Materials Research and Testing



Specifications

	UM – 12G 0UPT-016-460	UM – 12U 0UPT-016-460	UM – 16G 0UPT-016-460	UM – 16U 0UPT-016-460
Absorbed Power	12 kW	12 kW	16 kW	16 kW
AC Line, (50/60Hz), 3 Phase	230/380 ÷ 480VAC ±10%	230/380 ÷ 480VAC ±10%	380 ÷ 480VAC ±10%	380 ÷ 480VAC ±10%
Crucible Capacity	10 kg Au, 24kt	8 kg Au, 24kt *3 kg Pt *2 kg SS	15 kg Au, 24kt	10 kg Au, 24kt *5 kg Pt *5 kg SS
Melting Temperature (max)	1300 °C	2000 °C	1300 °C	2000 °C
Cooling Requirements water system quoted upon request	Water (External)	Water (External)	Water (External)	Water (External)
Weight	90 kg (198.4 lb)	90 kg (198.4 lb)	90 kg (198.4 lb)	90 kg (198.4 lb)
Dimensions, LxWxH	65 cm x 55 cm x 97 cm (25.6" x 21.7" x 38.2")	65 cm x 55 cm x 97 cm (25.6" x 21.7" x 38.2")	65 cm x 55 cm x 97 cm (25.6" x 21.7" x 38.2")	65 cm x 55 cm x 97 cm (25.6" x 21.7" x 38.2")

*minimum material quantity operation required: 500g Pt; 1kg Steel

Optional Equipment

Model	Description	
TS-09	IR Temperature Sensor with Stand	
CA-02	Argon Gas Dispenser	

HEADQUARTERS

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