

MELTOLOGY INDUCTION PVT LTD

▪ TECHNICAL BENIFITS AND SAFETY FEATURE:

- ❖ Control system built with high-speed digital micro-controller.
- ❖ Smooth start-up with DC capacitors for minimizing voltage jerk.
- ❖ 99% Input Power Factor for energy efficiency.
- ❖ Imported modules (SEMIKRON) and IGBT for smooth and energy efficient operations.
- ❖ Due to microprocessor controller very low harmonic distortion.
- ❖ Multi-Tripping indications on control card as well as on control panel.
- ❖ For lower melting temperature metals, thermocouple indicates the temperature of melting pot. And higher melting point pyrometer is controlling temperature.
- ❖ World-class design to minimize the inverter current and switching errors.
- ❖ Used fiber-optic connections to reduce electric and eddy current interface.
- ❖ The control card developed in-house and can withstand standard temperature, in normal Cooling fan environment.
- ❖ Regulator based current controller on the control panel ease of change limits.
- ❖ All the wiring harness used is as p standard ISI and with quality connectors.
- ❖ Non-conductive material used to build POT with refractory bottom and top along with standard coil coats used for longer life span of the melting POT (Provided FREE sample of a small bag of coat grout to re-insulate the same as and when required)
- ❖ All the interlock errors the panel
- ❖ Highly reliable and less maintenance digital circuit
- ❖ Water cooled film capacitor manufactured by Alcon used for best capacitance requirements.
- ❖ Water Flow and Water Failure indications on panel
- ❖ CF hose used to longer life of water-cooled copper connections with standard and Special Grade brass connectors on both the end.

PRODUCT RANGE

▪ **INDUCTION MELTING FURNACE**

• **GOLD MELTING INDUCTION FURNACE**

• **1KG GOLD MELTING INDUCTION FURNACE**

MELTING METAL	:	GOLD & SILVER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (65*100 MM)
POWER RATING	:	5Kw
INPUT VOLTAGE	:	230v – 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 0.5TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	5 MIN. APPROX.

Price:
2,50,000

• **2KG GOLD MELTING INDUCTION FURNACE**

MELTING METAL	:	GOLD & SILVER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (75*125 MM)
POWER RATING	:	5Kw
INPUT VOLTAGE	:	230v – 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 0.5TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	8 MIN. APPROX.

Price:
2,65,000

• **5KG GOLD MELTING INDUCTION FURNACE**

MELTING METAL	:	GOLD & SILVER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (100*150 MM) & SILICON CARBIDE & CERAMIC
POWER RATING	:	10 Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 0.75TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	10 MIN. APPROX.

Price:
3,50,000

- **10KG GOLD MELTING INDUCTION FURNACE**

MELTING METAL	:	GOLD & SILVER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (125*175 MM) & SILICON CARBIDE & CERAMIC
POWER RATING	:	10Kw
INPUT VOLTAGE	:	415v - 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 0.75TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	15 MIN. APPROX.

Price:
3,70,000

- **15KG GOLD MELTING INDUCTION FURNACE**

MELTING METAL	:	GOLD & SILVER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (150*175 MM) & SILICON CARBIDE & CERAMIC
POWER RATING	:	15Kw
INPUT VOLTAGE	:	415v - 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 1TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	20MIN. APPROX.

Price:
4,25,000

• SILVER MELTING INDUCTION FURNACE

• 2KG SILVER MELTING INDUCTION FURNACE

MELTING METAL	:	GOLD & SILVER & COPPER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (75*125 MM) & SILICON CARBIDE & CERAMIC
POWER RATING	:	5Kw
INPUT VOLTAGE	:	230v – 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 0.5TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	8 MIN. APPROX.

Price:
2,65,000

• 5KG SILVER MELTING INDUCTION FURNACE

MELTING METAL	:	GOLD & SILVER & COPPER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (125*175 MM) & SILICON CARBIDE & CERAMIC
POWER RATING	:	10Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 0.75TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	10 MIN. APPROX.

Price:
3,70,000

• 10KG SILVER MELTING INDUCTION FURNACE

MELTING METAL	:	GOLD & SILVER & COPPER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (150*175 MM) & SILICON CARBIDE
POWER RATING	:	15Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 1TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	15 MIN. APPROX.

Price:
4,25,000

• 15KG SILVER MELTING INDUCTION FURNACE

MELTING METAL	:	GOLD & SILVER & COPPER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (170*220 MM) & SILICON CARBIDE
POWER RATING	:	15KW
INPUT VOLTAGE	:	415V – 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 1TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	20 MIN. APPROX.

Price:
4,35,000

• 25KG SILVER MELTING INDUCTION FURNACE

MELTING METAL	:	GOLD & SILVER & COPPER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (190*230 MM) & SILICON CARBIDE AC-16
POWER RATING	:	20KW
INPUT VOLTAGE	:	415V – 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 2TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	25-30 MIN. APPROX.

Price:
4,80,000

• 50KG SILVER MELTING INDUCTION FURNACE

MELTING METAL	:	GOLD & SILVER & COPPER
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (250*275 MM) & SILICON CARBIDE AC-30
POWER RATING	:	30KW
INPUT VOLTAGE	:	415V – 50HZ
TEMPERATURE	:	1200°C WITH CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 3TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	30-35 MIN. APPROX.

Price:
5,60,000

• PLATINUM MELTING INDUCTION FURNACE

• 500GM PLATINUM MELTING INDUCTION FURNACE

MELTING METAL	:	PLATINUM
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (60*80 MM) & ZIRCONIUM BASED CERAMIC 60*80 MM
POWER RATING	:	15Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	2000°C WITH & WITHOUT CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 1TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	10 MIN. APPROX.

Price:
3,95,000

*Pyrometer Cost is extra.

• 1KG PLATINUM MELTING INDUCTION FURNACE

MELTING METAL	:	PLATINUM
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (65*100 MM) & ZIRCONIUM BASED CERAMIC
POWER RATING	:	20Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	2000°C WITH & WITHOUT CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 1TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	10 MIN. APPROX.

Price:
4,15,000

*Pyrometer Cost is extra.

• 2KG PLATINUM MELTING INDUCTION FURNACE

MELTING METAL	:	PLATINUM
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (75*125 MM) & ZIRCONIUM BASED CERAMIC
POWER RATING	:	25Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	2000°C WITH & WITHOUT CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 1.5TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	10 MIN. APPROX.

Price:
4,40,000

*Pyrometer Cost is extra.

- **5KG PLATINUM MELTING INDUCTION FURNACE**

MELTING METAL	:	PLATINUM
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (100*150 MM) & ZIRCONIUM BASED CERAMIC
POWER RATING	:	30Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	2000°C WITH & WITHOUT CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 3TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	10 MIN. APPROX.



*Pyrometer Cost is extra.

• **IRIDIUM/RHODIUM MELTING INDUCTION FURNACE**

• **500GM HIGH TEMP. MELTING INDUCTION FURNACE**

MELTING METAL	:	PLATINUM, PALLADIUM, RHODIUM, RUTHENIUM, MIX IRIDIUM ETC.
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (60*80 MM) & ZIRCONIUM BASED CERAMIC
POWER RATING	:	20Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	2500°C WITHOUT CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 1TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	10 MIN. APPROX.

Price:
4,15,000

• **1KG HIGH TEMP. MELTING INDUCTION FURNACE**

MELTING METAL	:	PLATINUM, PALLADIUM, RHODIUM, RUTHENIUM, MIX IRIDIUM ETC.
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (65*100 MM) & ZIRCONIUM BASED CERAMIC
POWER RATING	:	25Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	2500°C WITHOUT CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 2TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	10 MIN. APPROX.

Price:
4,60,000

• **2KG HIGH TEMP. MELTING INDUCTION FURNACE**

MELTING METAL	:	PLATINUM, PALLADIUM, RHODIUM, RUTHENIUM, MIX IRIDIUM ETC.
CRUCIBLE SIZE	:	GRAPHITE CRUCIBLE (75*125 MM) & ZIRCONIUM BASED CERAMIC
POWER RATING	:	30Kw
INPUT VOLTAGE	:	415v – 50HZ
TEMPERATURE	:	2500°C WITHOUT CONTROLLING
COOLING SYSTEM	:	WATER CHILLER UNIT 3TON
TECHNOLOGY	:	MICROCONTROLLER BASED IGBT
TIME	:	10 MIN. APPROX.

Price:
5,25,000