



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

HOT MOR - 1400 DEGREE - DIGITAL



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Technical Specification

•FURNACE STRUCTURE	:
•Furnace	: Chamber furnace with preheating zone
•Outside Shell size	: ≈700 x 700 x 1500 mm
•Useful volume	: 200 x 200 x 400 mm
•Shell Construction	: Double Wall High quality fabrication of M. S. Body and M. S. Angle's structure with proper stiffeners and neat powder coat painting
•Door Construction	: Sophisticated system to avoid heat loss made by Stainless steel door with proper insulation
•Furnace stand & panel box	: Control panel box with a door coupled with furnace Control panel box with a door coupled with furnace
•Insulation	: High alumina Bricks C-29 Grade Cumi make & back up by mechanically pressed zirconia blend ceramic fiber.
•Skin Temperature	: Double wall structure & special air circulating fan will be provided to maintain the skin temperatures just above ambient
•Loading rod & bottom bearing edges	: Silicon carbide
•HEATING SYSTEM	:
•Heating elements	: Silicon carbide (twelve numbers with even Silicon carbide (twelve numbers with even distribution)
•Make	: I SQUIRRED R , USA make
•Type of element	: Solid type

•Hot zone length	: 190mm
•Total length of element	: 600mm
•Resistance of the element	: ≈1 ohms
•Furnace operation	: Three phase / AC
•Power	: 10 kW
•Maximum Temperature	: 1500°C
•Working Temperature	: 1400°C
•Electrical line requirement	: 32A – MCB (three phase with neutral) has to be arrange by the customer
• Control System	:
•Temperature Control	: TAIE (8x2=16 segment) PID programmer cum Digital Temperature controller cum Indicator (Imported)
•Temperature Sensors	: with Recrystalised alumina beads and sheath
•Accuracy	: ±1°C
•Power Control	: through the phase angle controlled thyristor
•Indications	: a) Ammeters b) Mains Indicator c) Out put Indicator
•Control switches	: Mains on, out put on
•Safety	: Input, out put fuses
• SPECIMAN & TESTING	:
•Test specimen size & Numbers	: 25 X 25 X 150mm & 5Numbers
•Bending mode	: 3 point
•Distance between the support	: 125mm
•Maximum load	: 200kg
•Loading device	: Motorized load (Automatic)
•Measuring Accuracy	: ±1%
•Loading speed	: 0.5 ~ 4.0kg/sec
•Digital out puts	: 1. breaking load (Rupture load)
• AUTOMATION SYSTEM	:
•Control System	: 1.Programmable logical controller(PLC) : 2. Human Machine Interface(HMI)
• PROGRAMMABLE LOGICAL CONTROLLER (PLC)	:
•Input Points	: 8 Inputs
•Insulation Method	: Photo-coupler insulation
•Rated Input Voltage /Current	: DC24V / 4mA
•Operation Indication Input On	: LED On
•COMMON Method	: 8 points
•Output Points	: 8 Output
•Insulation Method	: Relay insulation



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