



MSME

UDYAM:WB16A0000574

## PRODUCT BROCHURE

### **Programmable Rectangular Chamber Type Furnace:**

**Brand: NABARUPAYAN™, Model: NR/ MF-DG-1000**

**Rectangular Chamber Type Furnace:** Used for ignition, fusion, ash determination etc

**Construction:** Heavy angle iron frame and surrounded with thick gauge MS sheet reinforced with thick front steel plate. Outer body welded and bolted with angle iron frame finished with heat resistant paint.

**Working chamber:** Made of high purity, high grade special refractory material of proper thickness so that the furnace can withstand the working load at maximum temperature.

**Insulation:** Adequate low thermal mass insulation of asbestos free, light weight, effective, ceramic fiber blanket provided on all sides of furnace for rapid heating rate inside the chamber and prevents thermal radiation losses and to maintain minimum outer skin temperature,



**Door:** Adequate Insulated Rectangular door made of thick SS sheet with counter balanced door opening arrangement is provided with a parallel swing a side opened. The door is fitted at the thick MS plate. The Door having centre hole with sliding window for viewing the furnace chamber while in operation.

**Temperature Range:** Maximum temperature 1000°C, Working Temperature 950°C

**Temperature Control:** HoneyWell(DC1010)/Fuji/UDIAN make Microprocessor based Digital Temperature Controller-cum-Indicator Programmable 8 segment. Temperature Range 0–1100°C. Control output: 0 to 5VDC. Sensor Input: Cr/A1 Thermocouple Range 0–1100°C with SSR power Supply. The PID programmable Temperature Controller can program any increment from 2°C to 20°C per/minute in rate of heating or as per your desired set point, 3.5KW Thyristor Controller for 1100°C Temperature Controller Furnace, 220VAC/1 phase, 32Amp.

**Heating Elements:** Kanthal A-1 wire heating elements placed on all sides of furnace inside chamber to ensure quick and uniform temperature rising up to desired point.

**Control panel:** Fitted with HoneyWell(DC1010)/Fuji/ UDIAN make Programmable Temperature Controller-cum-Indicator and provided with Ammeter, Main lamp, Load lamp, Toggle switch, etc.

#### **Technical Specification:**

**Maximum temperature:** 1000°C

**Working Temperature:** 20 °Cto950°C

**Temperature controller:** HoneyWell(DC1010)/Fuji/UDIAN make Microprocessor based Digital Temperature Controller-cum-Indicator Programmable 8 segment

**Heating Element:** A1 Kanthal wire

**Working Chamber Size:** 5" (Inch)x 5"(inch)x 10" (inch) –Standard size.

**Power Required:** To work on 220/230 Volts Single Phase AC Mains Load: 3.5Kw

**HSN Code:** 8479

#### **NABARUPAYAN**

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