

## **HIGH TEMPERATURE RESISTANCE FURNACE**

(Qty.01 No.)

- Heating Element: MoSi<sub>2</sub> or SiC rod heating
- Max. Operating Temperature = 1400 °C or more
- Chamber Size (Inner Dimensions) w × d × h = 600 × 600 × 600 mm or equivalent
- Capacity/Volume = 216 L or more
- Power source: 3 phase, 400 V, 50 Hz, Rated power: 22KW or more
- Lift door with electro-mechanic linear drive.
- Separate wall-mounting or floor standing cabinet for switchgear/control.
- Cooling fan for shorter cycle times.
- Protective gas connection to purge with non-flammable protective gases.
- Standard controller (the controller regulates the furnace temperature reliably and is equipped with an integrated USB-interface for documentation of process data (NTLog/NTGraph))
- Over-temperature limiter with adjustable cut-out temperature for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load.

### **SPARES AND ACCESSORIES**

- Automatic gas supply system compatible with the furnace. (Qty. 01 No.)
- Process control and documentation via VCD software package for monitoring, documentation and control (compatible with standard controller).
- Heat-resistant gloves to 700°C or above for protection of operator during loading/unloading of crucibles. (Standard size; Qty. 02 pairs)
- SiC or MoSi<sub>2</sub> heating elements compatible with the furnace (Qty. 01 set).
- Standard controller (equipped with an integrated USB-interface for documentation of process data (NTLog/NTGraph). Qty.01
- Over-temperature limiter with adjustable cut-out temperature for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load.(Qty.01)
- Tongs (jaws should carry crucible size of diameter 70mm and more) for use in heating and annealing process. (Qty. 05 Nos.)
- Round saggar (Ø=115 mm) for furnace, T<sub>max</sub> 1400 °C or more (Qty. 05 Nos.)

#### **Proposed Model:**

LH 216/14 by M/S. Nabertherm, GmbH or equivalent.

#### **Note:**

- Spares and accessories must be compatible with the equipment.
- European, US, and Japanese manufacturers will be preferred for these items
- All documents e.g. operation, maintenance and support manuals must be provided in English.
- Quotation should reflect Ex-works value, Freight charges, FOB and C&F value distinctly.