

THERMAL TECHNOLOGY LLC™

H I G H T E M P E R A T U R E E X P E R T S

SPECIAL OFFER:

Thermal Technology currently is exclusively offering 10+ NEW high temperature high vacuum furnaces for sale. These furnaces were supplied during the calendar years between 2013 and 2014 to a major USA commercial electronics manufacturer, equipment is currently located in china, owned and in possession of USA company.

- Thermal will offer a standard 6-month warranty as per published policy
- Thermal will support Buyer's with service and parts as requested

These Tungsten hot zone furnaces are rated up to 2200°C (but current controls are thermocouple only thus it is recommended for 1850°C operation), Six-Sided heating configuration for optimal temperature uniformity. They are currently set up with a 10" diffusion pump for high vacuum operation as well as inert gas partial pressure. Additional options such as hydrogen gas (both dry & wet), other high vacuum pumps (turbo or cryo), optical pyrometers (to allow for 2200°C), survey TC's, work rack are all available at additional retrofitting cost upon request. A general specification along with some pics are shown below. A visual inspection of the equipment can be arranged by appointment.



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BASIC SPEC'S OF SYSTEM ARE AS FOLLOWS:

1) Model 161632W Vacuum Furnace System

COMPLETE FURNACE ASSEMBLY

16" wide x 16" high x 32" deep hot zone

6-sided TUNGSTEN heating element array to optimize temp uniformity

Tungsten and Molybdenum shield packages

1850°C with current TC control

(Buyer must install optical pyrometers to operate up to 2200°C)

front and rear loading configuration

front door is secured with pneumatic clamps, interlocked

hearth designed for 1000Lb load

350KVA COMPLETE POWER SUPPLY (380V/480V, 3Ph, 50/60Hz)

mounted above furnace , power supply is designed for 2200°C operation

COMPLETE INERT GAS CONTROL (with MFC)

COMPLETE AUTO-CLOSED LOOP INERT GAS PARTIAL PRESSURE CONTROL

COMPLETE HI-VACUUM SYSTEM (10-6torr)

Full range vacuum gauge and control

10" DIFFUSION PUMP with Hi-Vac gate valve

Roughing pump

COMPLETE WATER MANIFOLD DISTRIBUTION

SST inlet manifold with flow control valves, blue water hose

SST outlet manifold with water flow interlock sensors on critical circuits, red water hose

Temperature monitors on each critical circuit

COMPLETE CONTROL SYSTEM

19" Siemens HMI/MMI and PLC package

UPS for controls

Thermocouple control

Independent Over temp control and TC

EMO on/off switch

Status tri-color light tower

COMPLETE DOCUMENTATION PACKAGE (English) soft copy

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(OPTIONAL) FIELD SERVICE ENGINEER

- 40 hours On-site labor.
- Travel related expenses will be included
- Purchaser will be responsible for equipment location, initial installation (hook-up connections between major components), and connecting utilities from facility to equipment prior to arrival of engineer.

Scope of Work: Installation inspection, (ASSIST WTH FINAL ASSEMBLY) conduct initial startup, perform Field Acceptance Test, and provide training on operation and maintenance.

(OPTIONAL) CRITICAL SPARE PARTS PACKAGE

- One complete heating element set (sides, top, bottom, front and rear)
- One complete o-ring set
- One complete CONTROL thermocouple set

(OPTIONAL) SHIPPING CHARGES and INSURANCE TO MAJOR SHIPPING PORT (air or ocean freight)

**price will based on destination

TYPICAL Payment Terms:

30% of total PO value, Net 15 days from the PO date.

30% submission of system assembly drawing, to enable Buyer to prepare final site, typically 2-4 weeks ARO, Net 15 Days.

30% upon shipment, Net 30 days.

10% after successful Installation & Commissioning, maximum Net 90 days from date of shipment.

Warranty: 6 months, excluding hot zone components or consumables as per our published warranty policy.

Lead-Time:8-12 weeks from order to time of shipment.

Shipping Terms:

FCA CHINA PORT (due to current location). Buyer is responsible for all import fees incurred associated with sale.

ECCN: EAR99

SCHEDULE B No.: 8514 10 0000

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Additional Pictures Below:

