
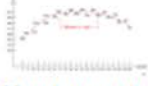





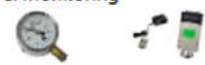




SPECIFICATIONS:

Furnace Structure 	<ul style="list-style-type: none"> Double layer steel structure. High purity Al₂O₃ fibrous insulation with Max. energy saving High purity alumina coating on refractory ceramics for longer service life. Two 4" length heating zone which can be controlled by temperature independently. Dual Heating zone design and Alumina circle block help you build customized Temperature Gradient inside the tube. All electric components (>24V) are UL certified and ready to pass TUV, CSA, and UL test
Power	1.5 KW
Voltage	<ul style="list-style-type: none"> 110V
Max. Temperature	1200°C (<1 hour)
Continuous Temperature	1100°C (continuous)
Max. Heating Rate	≤ 20°C/min
Heating Zone Length	<ul style="list-style-type: none"> Two heating zone and each zone length is 100mm and 200 mm in total
Constant Temp. Zone & Temperature Gradient	<ul style="list-style-type: none"> 50mm within +/-1°C (If set two zones at same temperature) 70mm within +/-2°C (If set two zones at same temperature)  <ul style="list-style-type: none"> Max. temperature gradient : 1°C/ mm (one zone heating) Max. temp difference between the adjacent zones ~100°C (heat up one zone only, without the isolator between the adjacent zones)
Temperature Controller	<ul style="list-style-type: none"> Two temperature controllers are built to control heating zone independently via K-type thermal couples PID automatic control via solid state relay with 30 steps programmable Built in Over Temperature and Thermocouple Failure Protection
Temperature Accuracy	+/- 1°C
Heating Elements	Fe-Cr-Al Alloy doped by Mo
Tube Size Please select the tube size in the options bar, (click below to order spare tube)	<div> <div data-bbox="321 867 946 1056"> 1" quartz tube (25mm O.D x 22mm I.D x 450mm L) <ul style="list-style-type: none"> Two fibrous ceramic tube blocks are included Quartz blocks (optional) are ideal for clean & High vacuum May order flange support to avoid tube rotating (click Pic below right)  </div> <div data-bbox="946 867 1602 1056"> 2" quartz tube (50mm O.D x 44mm I.D x 600mm L) <p>Two fibrous ceramic tube blocks are included for blocking heat radiation from tube chamber. (Ceramic blocks must be fully inserted into the furnace chamber before heating)</p>  </div> </div>
Vacuum Flanges	<div> <div data-bbox="321 1056 946 1203"> <ul style="list-style-type: none"> 1" flange has no thermocouple insert (click bottom picture to see details)  </div> <div data-bbox="946 1056 1602 1203"> <ul style="list-style-type: none"> 2" and 2.36"(Option) tube flange (click bottom picture to see details)  </div> </div>
Vacuum Level	10 ⁻³ torr (by mechanical pump)
Fitting Ports & Optional Parts	<ul style="list-style-type: none"> You may need a vacuum valve at the vacuum portend (click picture left to order) You may consider ordering quick connecting flange at extra cost. You may click the pictures in below to order furnace with a vacuum pump and a temperature calibration kit. 
Pressure Measurement & Monitoring 	<ul style="list-style-type: none"> Standard mechanical vacuum gauge measures within a pressure range of -0.1 to 0.15Mpa is included. OPTIONAL: A gas-type independent (above 10mbar) digital vacuum gauge with a wide range between 3.8x10⁻⁵ to 1125 Torr. Aside from greater measurement precision, this gauge reduces risks of chamber explosions caused by the incorrect reading of gas pressures due to gas-type dependency.
Net Weight	35 Kg
Shipping Package Size	40"(L) x 25"(W) x 35"(H)
Shipping Weight	110 lbs
Warranty	One year limited warranty with lifetime support (Consumable parts such as processing tubes and o-rings are not covered by the warranty, please order replacements at related products below.)
Compliance	<ul style="list-style-type: none"> CE Certified All electric components (>24V) are UL / MET / CSA certified The furnace is ready to pass TUV(UL61010) or CSA certification at extra cost. (Pls click marks below to learn details) Please choose certification type from product option bar 
Application Notes & Warning 	<ul style="list-style-type: none"> Tube furnaces with quartz tubes are designed for using under vacuum and low pressure < 0.2 bars / 3 psi / 0.02 MPa. Vacuum pressures may only be safely used up to 1000°C Attention: A two-stage pressure regulator must be installed on a gas cylinder to limit the pressure to below 3 PSI for safe operation. Click here to learn the installation of a gas regulator. How to set up the ceramic tube and vacuum flange for MTI tube furnaces. For safety, you may consider putting the small tube furnace inside a fume hood. (click picture left)