

HIGH TEMPERATURE TUBE FURNACE



MODEL : MT - 17P

TECHNICAL SPECIFICATIONS

- Maximum Temp. : 1700°C
- Working Temp. : 1600°C / 1650°C
- Temp. Accuracy : $\pm 2^\circ\text{C}$
- Heating Elements : Molybdenum disilicide (MoSi₂) heating elements , easily replaceable .
- Inner Chamber : Ceramic Brick / Board , with heating elements placed on the side walls .
- Insulation : Ultra high purity alumina low thermal mass insulation.
- Construction : Tripple walled with air insulation on the outer side For Minimal Skin Temp.
- Body : Made of mild steel duly Powder Coated.
- Tube Material : High Purity Recrystallized Alumina
- Tube Size : Inner Dia. = 50 mm / Hot Zone length = 200 mm / Overall length = 700 mm
- Gas Purging : Ends of the tube have Stainless steel couplers with cooling attachment for purging of gases .
- Power Control : SCR unit (Phase Angle Thyristor) with current limit and soft start facility and Step Down Air Cooled Transformer.
- Temp. Control : Microprocessor based PID Programmable Temp. Controller. Dual display of Set & Actual Temp. with soft touch keys. With Thermocouple break Protection & Cold junction compensation.
- Sensor : Pt / Pt - Rh
- Safety : High Speed Semi conductor Safety Fuse for over load protection. T.C. Broken Indication with automatic tripping. Soft start and stop facility, suitable for heating elements Over current and Short Circuit Protection. High Temp alarm
- Control Panel : Separate Control Panel with all Electrical Accessories, placed on the bottom of the furnace.
- Power Supply : 415 Volts, 2/3 phase AC supply.



MODEL : MT-17P

OPTIONAL :

- (1) Recrystallized Alumina Tube with Couplers (Specify Dia. & Length)
- (2) Vacuum Pump, Rotary Double Stage Oil Filled, vacuum upto 10^{-2} torr.
- (3) Vacuum Gauge Analogue Type 0 - 76 Cm. of Hg.
- (4) Vacuum Gauge Digital / Analogue Pirani Gauge
- (5) Chiller unit with, Stainless Steel Tank and refrigeration system with water circulation pump (Model : MCC-8L)
- (6) Gas Flow Meter with valve, Flow Rate : upto 500sccm. (for Argon / Nitrogen Gas)
- (7) MFC, Flow rate upto 1000sccm for different gases.

PROGRAMMABLE TUBE FURNACE

MODEL : MT-11P & MT-14P

TECHNICAL SPECIFICATIONS

MODEL	MT-11P	MT-14P
N byjn vn !Uf n q/	2311'D	2611'D
X psf joh!Uf n q/	2211'D	2511'D
Uf n q!Bddvsbdz	12'D	12'D
I f bijoh!F rfn f out	L bou brh!B2!x jst -!D pjr!uzqf !x ju	T jrd!pol!D bsc!jef !x ju
	f oe!dpoof d!jpo/	f oe!dpoof d!jpo-!f bt jrn!sf qrbdf bc rh/
!bof s!Di bn cf s	Df sbn jdl!Sf gsb!upsz!OCpbse!x ju li f bijoh!f rfn f out /	
!bt vrb!jpo	Df sbn jdl!Gjcsf	Df sbn jdl!Gjcsf
Dpot usv!d!jpo	Usjqqrh!x brh!e!x ju !bjs!jot vrb!jpo!polu f !pvuf st jef !Gps!N jojn brh!T! jo!Uf n q/	
Cpez	N bef !pgn jrn!e!f f rev!m!Qpx ef s!Dpb!e	
Uvcf !n b!f s!jbm	Brn job!pqj!pobrh!Rvbs! *	
Uvcf !Tj!f	!bof s!Ej!b!>!76n n !OI pul[pof !r!hohu !>!311!n n !OPw sbr!r!hohu !>!811!n n	
	!Gvsobdf !x ju !wcf !pge!jgf sf oe!Ej!b-!l pul[pof !r!hohu ! !Pw sbr!r!M ohu !d!bo!brh!p!cf !n bef	
	bt !qf s!dvt un f s!sf r v!jst n f ou	
Hbt !Qvsh!joh	Foet !pgu f !wcf li bw !Brn jojn !dpvqrh!st !x ju !dppjrh!bubdi n f ou!g!sqvsh!joh!pg!hbt f t /	
Qpx f s!Dpou!spm	TTS!voju	TDS!voju!Qi bt f !Bohr!Ui zst!ups*
Uf n q!Dpou!spm	N jds!p!spdf !t p!sc!bt f e!Qsp!hsbn n bc!rh!Uf n q!Dpou!sp!h!s!x ju !2!q!sp!hsbn !y!27!t f hn f out	
	!sbn q! pbl !q!sp!gh!E!v!br!e!jt q!rbz!pg!Tf u' !Bdu!br!Uf n q!x ju !t p!g!l!pv!di !l f zt /	
	X ju !Uf n q!p!p!vqrh!c!sf bl !q!sp!f d!jpo! !D p!r!l!v!od!jpo!dpn qf ot b!jpo/	
Tf ot ps	Ds!OBm	Qud!Qul !Si !24&
Tbg!uz	Pw s!dvs!f ou!boe!Ti p!s!D!j!sv!ju!Qsp!f d!jpo/	
	Ui f sn p!p!vqrh!c!sf bl !br!hsn	
	I jhi !Uf n q!br!hsn	
Qpx f s!T!v!q!qm	331!w!p!nt -!t joh!rh!l!qi bt f !BD!t v!q!qm/	



MODEL : MT-14P

OPTIONAL FOR ALL TUBE FURNACE :

- (1) Alumina Tube / Quartz Tube with Couplers (Specify Dia. & Length)
- (2) Vacuum Pump, Rotary Double Stage Oil Filled, vacuum upto 10^{-2} torr.
- (3) Vacuum Gauge Analogue Type 0 - 76 Cm. of Hg.
- (4) Vacuum Gauge Digital / Analogue Pirani Gauge
- (5) Chiller unit with, Stainless Steel Tank and refrigeration system with water circulation pump (Model : MCC-8L)
- (6) Gas Flow Meter with valve, Flow Rate : upto 500sccm. (for Argon / Nitrogen Gas)
- (7) MFC, Flow rate upto 1000sccm for different gases.
- (8) Stainless steel high vacuum flanges for alumina / quartz tube