

TECHNICAL SPEC FOR furnace

System Model:	Thermco Horizontal 1/4 THERMCO
Specific model:	Thermco 5000
Process:	Horizontal Hi-temp oxidation/diffusion
Substrate size:	6 inch
MFC for each tube: (N2Carrier, 2 SLM)	1X N2 (30 SLM), 2X O2 (20 SLM, 2 SLM), 1X H2 (20 SLM), DCE
Process temperature:	1250 °C
Voltage:	3X400VAC
Heating element:	MRL
P/N No for each tube:	6 in SiC
Tube size:	6 inch, SiC tube with profile TC
Water cooled heat exchanger:	Yes
Thermocouples:	B-type, 5-zone profile and 5-zone spike
Temp controlled zones:	5-zone
Over temp monitoring:	Separate overtemp controller
Boat loader type:	BT-loader (belt)
Hlf air supply:	From fab
Blower power:	Separated
Hepa filter type:	Fire limiting
Hepa filter access:	Rear
Scavenger boxes:	Standard – air cooled
Head assembly:	SiC paddle
Cantilever type:	Cryco for SiC paddle
Source cabinet:	Standard
Gas manifolds:	Standard
Exhaust position:	Top

External torch: Water cooled steam generator
Source heater: Resistor
Bubbler: Schumacher
CDA: Yes
Regulator: Common for stack
Gauge: Common for stack
Filter: Yes
Gas inlet location: Top
Valve: Standard
Computer console: Separate TMX cabinet
Controller: TMX
Missing parts: None
Defected parts: Tube 3 heater defective
Operating system: Brooks / AppliedMaterials SEMY
Serial plate SC109L S/O 24-19008

