

TECHNICAL SPEC FOR furnace

System Model:	Thermco Horizontal 1/4	THERMCO
Specific model:	Thermco 6200	Vintage 2006.07
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 inch 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:	D-loader (wormgear)	
Hlf air supply:	From fab	
Blower power:	Separated	
Hepa filter type:	Fire limiting	
Hepa filter access:	Rear	
Scavenger boxes:	Water cooled	
Head assembly:	SiC paddle	
Cantilever type:	Cryco for SiC paddle	
Source cabinet:	Standard for hi-temp ox/diffusion	
Gas manifolds:	See MFC setup	
Exhaust position:	To top	

External torch: Water cooled steam generator
Source heater: Resistor
Bubbler: DCE – Schumacher - ATCS 15 TLC
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: Tube2 – 15VDC PSU in TMX
Defected parts: None
Operating system: Brooks / AppliedMaterials SEMY
Serial plate S1166 S/O J022

