

TECHNICAL SPEC FOR Vertical furnace

System Model:	WAVES TEL Alpha 8 series
Specific model:	Model ALPHA-8SE-C Vintage 2006.05
Process (Poly, TEOS, Nitride, Pyro, etc.):	NITRIDE process
APCVD or LPCVD:	LPCVD
HDD and SW included or not:	SW installed, tool version with HDD
Main controller type:	WAVES
SiC/quartz included or not:	Separated
Substrate size:	Configured for 6 inch, 8 inch compatible
SMIF:	No
Gas config:	For nitride process, WAVES
Leak detection:	Yes
Wafer notch aligner:	6" Jeida flat
Handler type:	TBAWL
Indexer:	With wafer counter for 6"
Carrier type, FOUP:	6" black carriers, No FOUP
Buffer Capacity:	2X6 prod carriers, and 9 carriers for mon, extraDummies, dummies
Boat type:	170 slots, 150 prod wafers
Boat rotation:	Yes
Heater type:	5Zone
Carrier ID reader:	No

MFC: 7X N₂ and 1X NH₃, 1X SiH₂Cl₂, 1X N₂O

Pressure transducer: 1X 1Torr, 1X 10Torr, 1X 1000Torr

CKD-VEC Vacuum pressure controller: Yes, CKD

CDA: Yes

Temperature controller: 560A

Exhaust controller: Yes

Power Box: No

Missing parts: No

Defected parts: No

Operating system: Waves 3.11

Serial plate

NITRIDE3

TYPE ALPHA-3SE-C
SERIAL NO. M000000655036
PHASE 3 TYPE OF DISTRIBUTION 3 WIRE
POWER 400 Vac 50/60Hz 40.6 kVA
FULL-LOAD CURRENT 73.6 A
AMPERE RATING OF THE LARGEST LOAD 61.1 A
MACHINE MAIN BREAKER AMPERE 80 A
SHORT-CIRCUIT INTERRUPTING CAPACITY 36 kA
OVERCURRENT PROTECTION PROVIDED AT MACHINE
SUPPLY TERMINALS
ELECTRICAL DIAGRAM NO. 2192-160037
DATE OF MANUFACTURE 2006.5
MANUFACTURED BY TOKYO ELECTRON AT LTD. TOHOKU PLANT
52 AZA-MATSUNAGANE, IWAYADO,
ESASHI-SHI, IWATE 023-1101, JAPAN
TOKYO ELECTRON LIMITED
MADE IN JAPAN