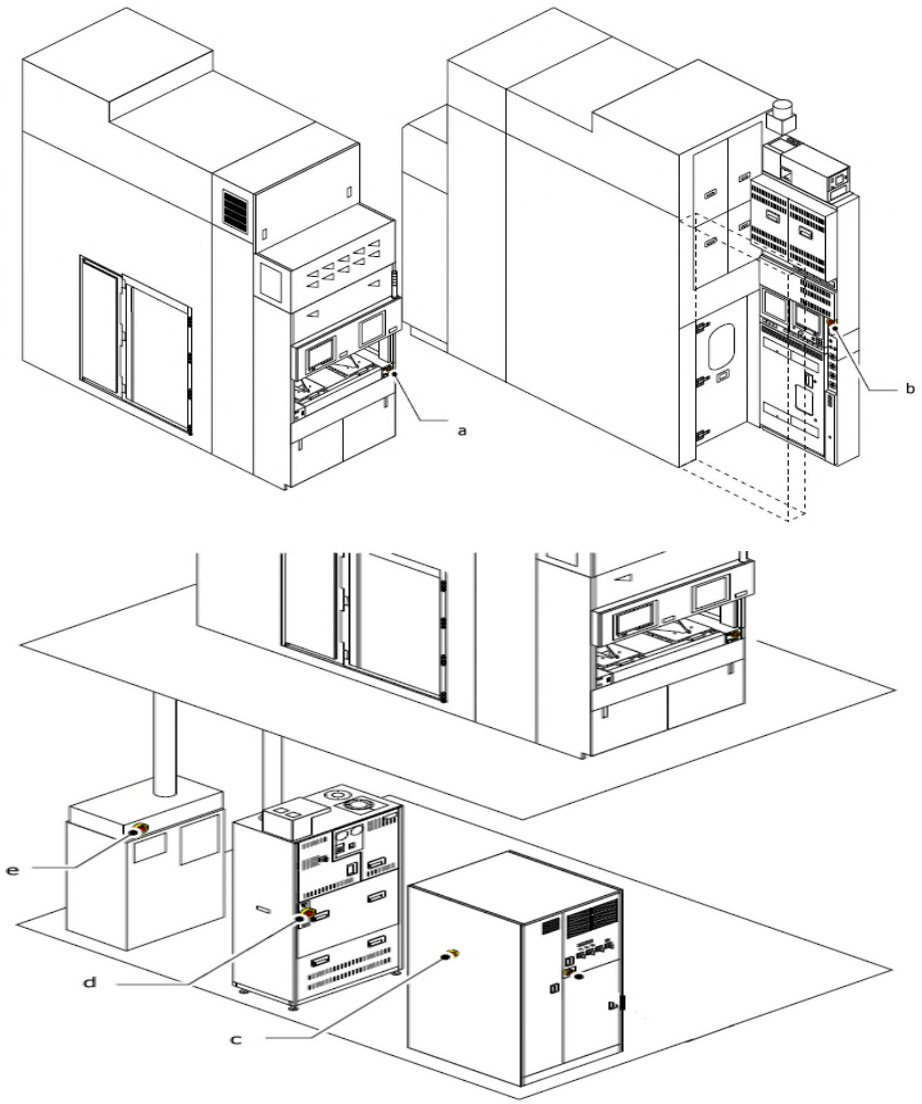

MOOV

1. System Overview

The following figure illustrates the locations of the major subsystems in a typical furnace unit.



a: The furnace subsystem, which includes the following major components.
- . Automation system
- . Heater
- . Process chamber
- . Temperature controller
- . Scavenger
- . Cooling water unit

b: The gas subsystem, which includes the following major components.
- . Gas supply unit
- . Exhaust
- . Vacuum line (for LPCVD systems)

c: Power box (consists of the primary power supply and the power control system)

d: Rapid cooling unit (option for Fast Thermal Processing Systems)

e: Pump box (option for LPCVD systems)

Missing Parts List

No.	Parts Name	Quantity	Remark
1	Quartz Wares	1SET	(Process Tube, etc.)

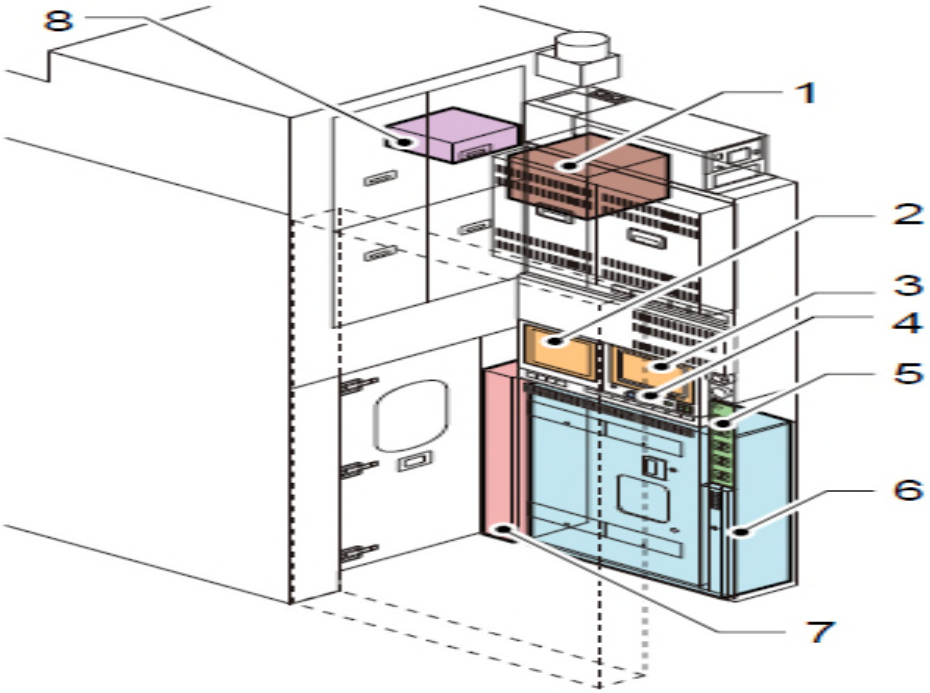
1. FURNACE UTILITY INSPECTION SHEET

Maker	TEL	Software OS	TEL Waves
Vintage	2010.07	Process	BCD-POLY

Type	DiFF	AIR VALVE	FUJIKIN
Heater	-	MFC,MFM	HORIBASTEC
Three phase power	3Ø AC 208V	MAIN	CKD
Single phase power	1Ø AC 208V	APC	
GAS	PN2 / SiH4 / 1%BCl3 / N2 / C2H4 / ClF3 / O2		
Others	-. KAWASAKI MECHA		

System inspection

2) Utility Box

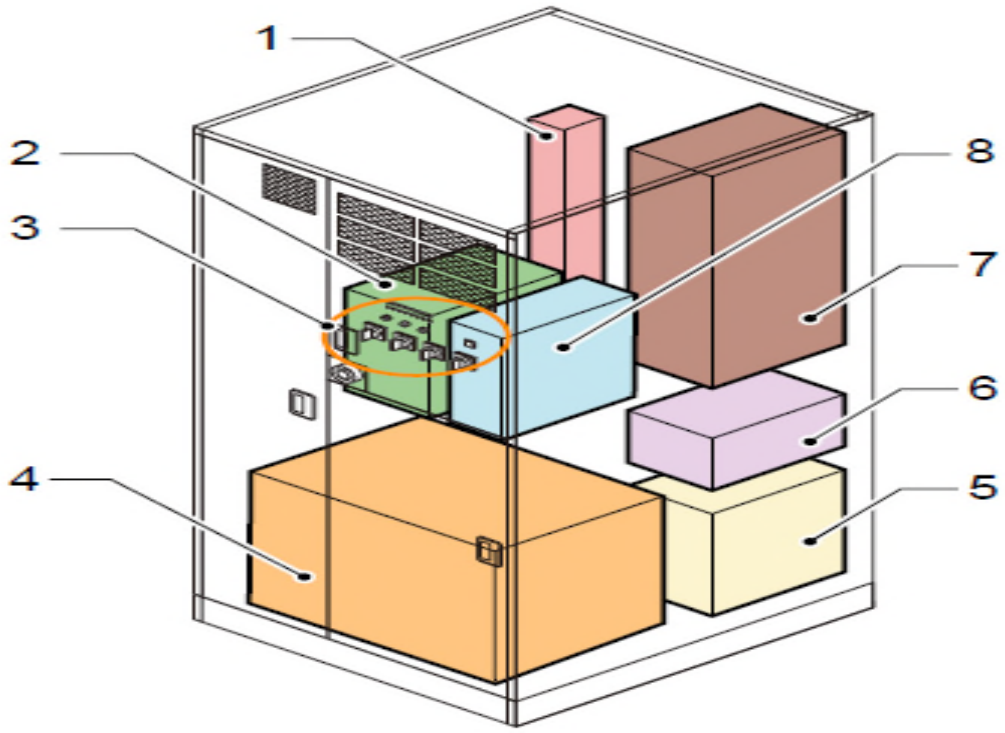


Check Item	Status	Status Issue	Broken Parts	Remark
1.WAVES Controller	L3			
2.GFC Panel	L3			Display type
3.Operation Panel	L3			
4.Data I/O	L3			USB Type
5.Hardware Switch	L3			
6.Gas Unit	L3			(End Cap)
7.Cooling Unit	L3			
8. APC Controller	L3			
9.Temp Controller	L3			M560A
10. EXH Box	L2			
11. Others	-			

Status: L1- Need to Cleaning & Parts Change
L2- Cleaning
L3- Not need to fix

System inspection

3) Power Box



Check Item	Status	Result	Broken Parts	Remark
1.Power Braker	L3			
2.Control Board	L3			
3.Hardware Switch	L3			
4.Transformer	L3			
5.SCR Unit	L3			
6.SCR Controller	L3			
7.N2 Purge Unit	L3			
8.RF Power(option)	-			
9. Others	-			
*.RCU Unit(option)	-			
*.Pump Box(option)	-			

Status: L1- Need to Cleaning & Parts Change
L2- Cleaning
L3- Not need to fix