System status report

Model	**DJ-1223VN**
Date of manufacture	**2015.03**
Process	**HTO**

Machine Inspection Result:

A: Not Repairable

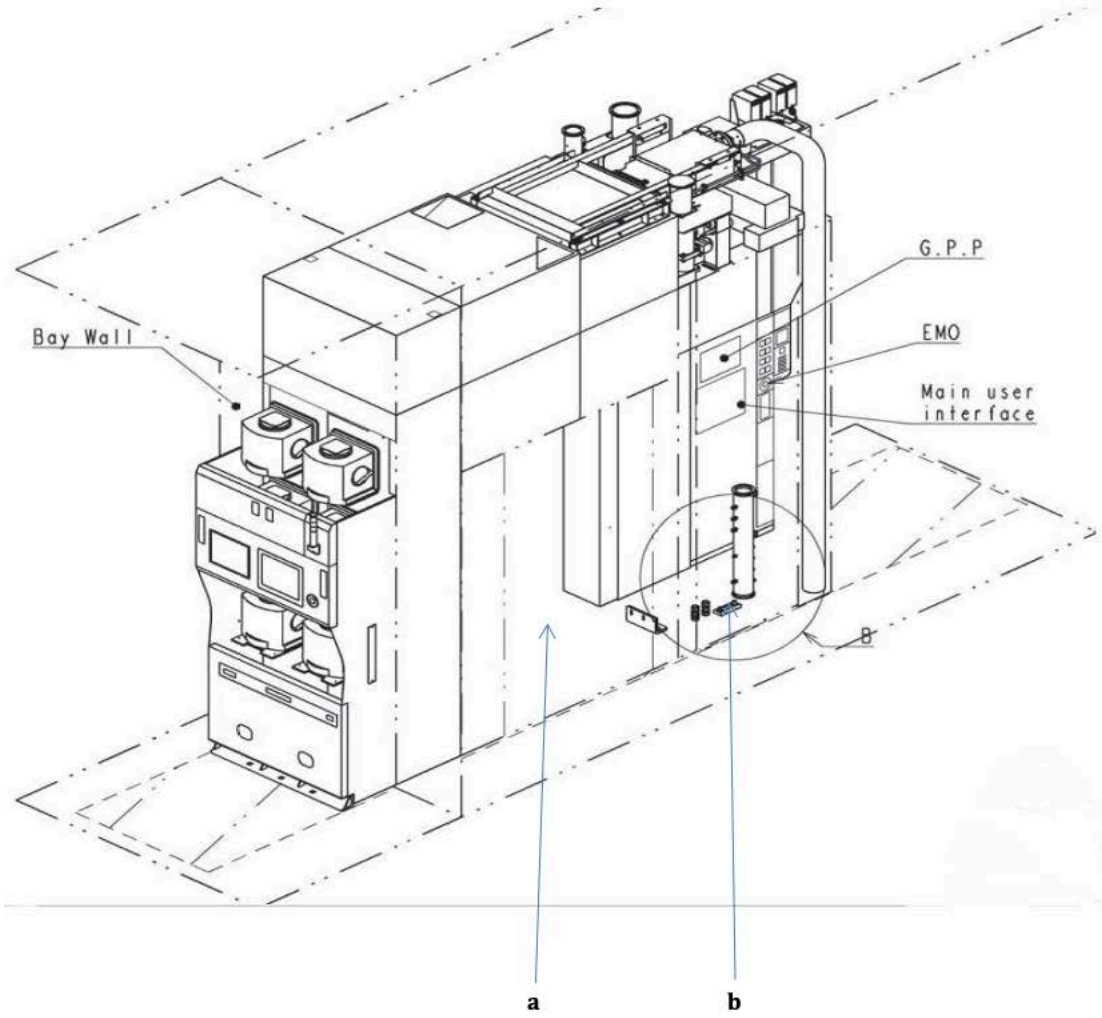
B-1: Repairable on site

B-2: Repairable outside

C: Others (power off, etc,..)

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**
- **. Scavenger**
- **. Cooling water unit**

b: The gas subsystem, which includes the following major components.

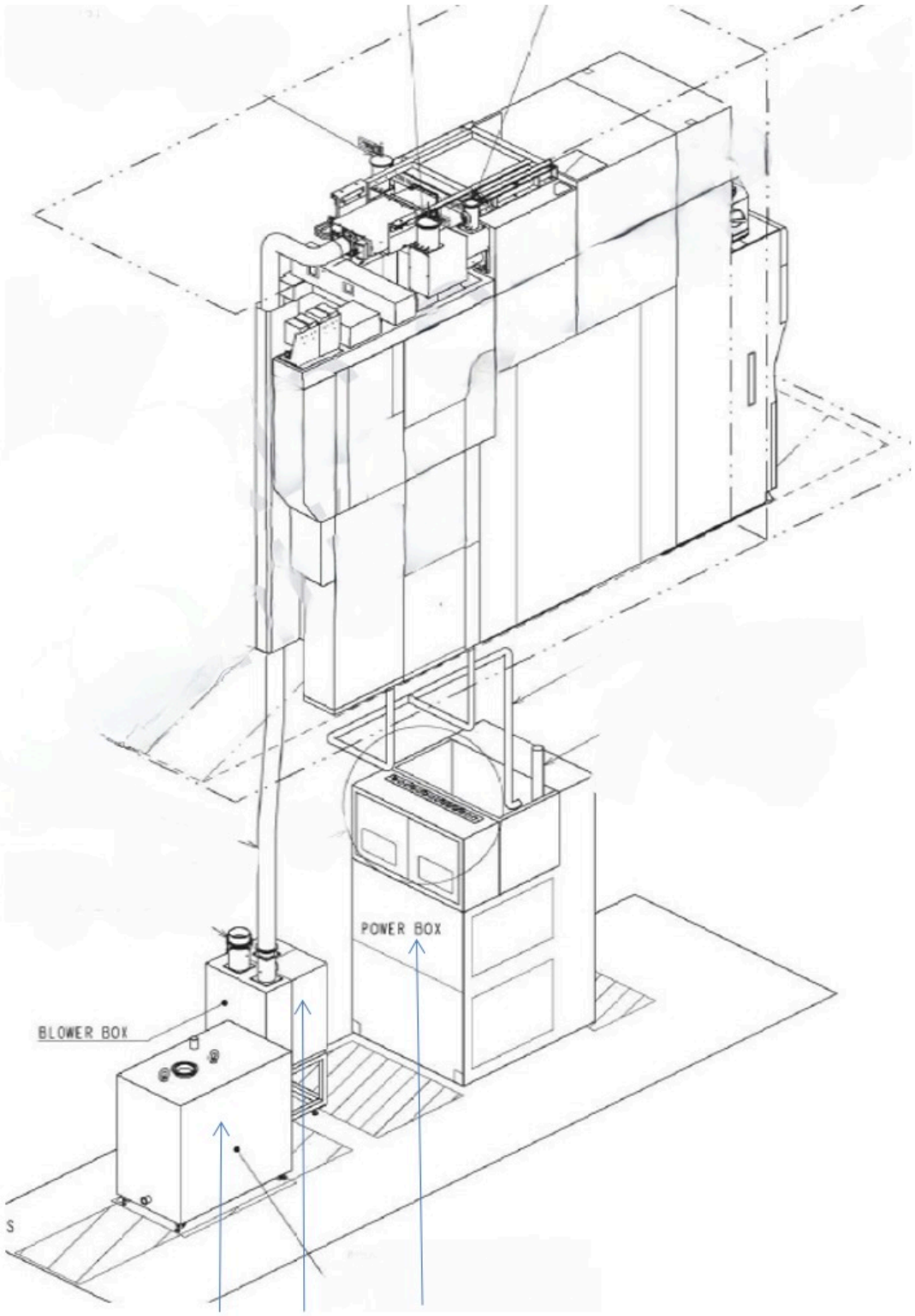
- **. Gas supply unit**
- **. Exhaust**
- **. Vacuum line (for Pump systems)**

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

- **. Temperature controller**

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

e: Pump box (option for vaccum systems)



e **d** **c**

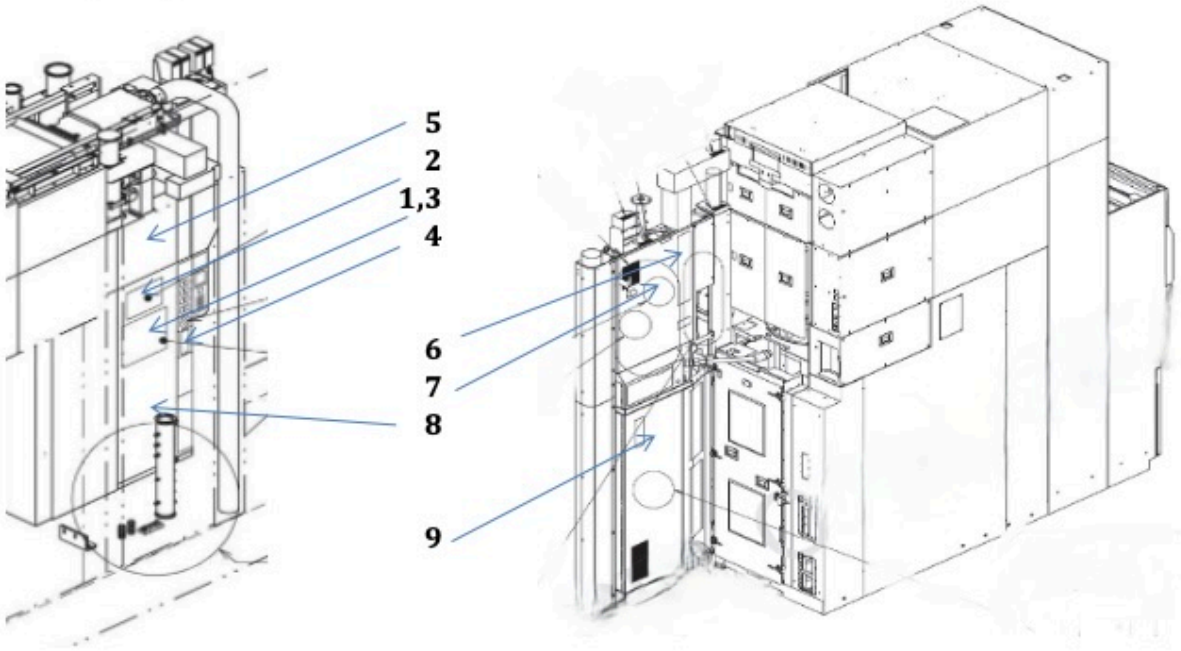
1. Furnace utility inspection sheet

Maker	**KE**	**Software OS**	**CX3000**
Serial No.			
Vintage	**2015.03**	**Process**	**HTO**

Type	**Diffusion**	**Air valve**	**FUJIKIN**
Heater	**D4EX22250-011**	**MFC, MFM**	**HORIBA_STEC**
Three phase power	**3Ø AC 480V**	**Main**	**CKD**
Single phase power	**1Ø AC 120V**	**APC**	
GAS	**PN2 / SiH2Cl2 / NH3 / SiH4 / N2O**		
Others	**ROBO 5000**		

System inspection

2) Utility Box



Check item	Status	Status issue	Broken parts	Remarks
1. CX3000	L3			
2. GFC Panel	L3			Button type
3. Operation panel	L3			
4. Data I/O	L1		NOT ON	FDD Disk Type
5. Gas unit(IGS)	L3			(End cap)
6. Cooling unit	L3			
7. APC Controller	L3			
8. Temperature module	L3			CQ1710
9. Exhaust box	L2			
10. Others	-			

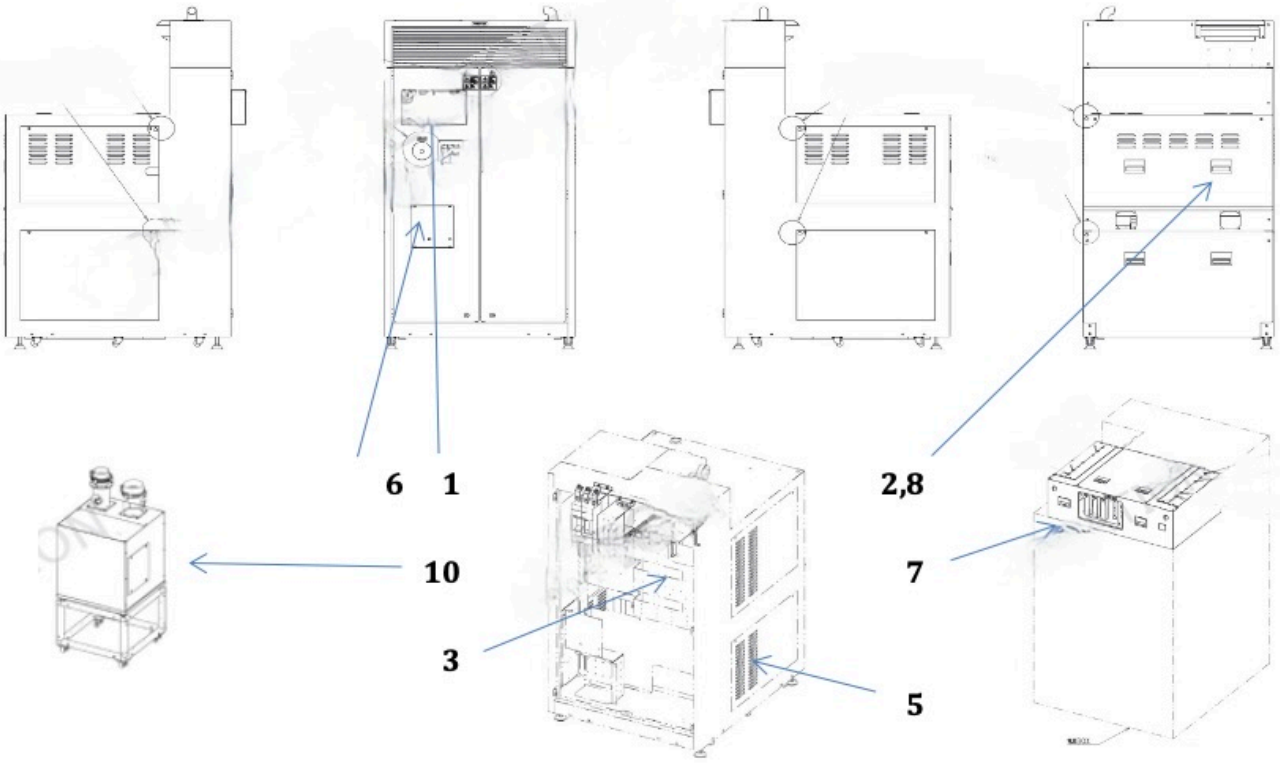
Status: L1- Need to cleaning & Parts change

L2- Cleaning

L3- Not need to fix

System inspection

3) Power box



Check item	Status	Result	Broken parts	Remarks	
1. Power braker	L3				
2. Temperature controller	L3			CQ1700	
3. Hardware switch	L3				
4. Transformer	L3				
5. SCR Unit	L3				
6. DN-150	L3				
7. N2 Purge unit	L3				
8. PLC control	L3				
9. Others	-				
10.RCU Unit (option)	L3				

Status: L1- Need to cleaning & Parts change

L2- Cleaning

L3- Not need to fix