



SOLARIS RTA



These instructions are intended for reference only, and will *not* replace the thorough training required for proper system operation. Contact a clean room staff member with questions or to report a system problem.

Written by Mike Maghiar





1. BADGER:
Enable the tool in badger.



2. LOAD SAMPLE:

- To open, pull down the handle first and then pull the drawer out.
- Load the sample.
- Push drawer back in.
- Pull the handle up to lock.

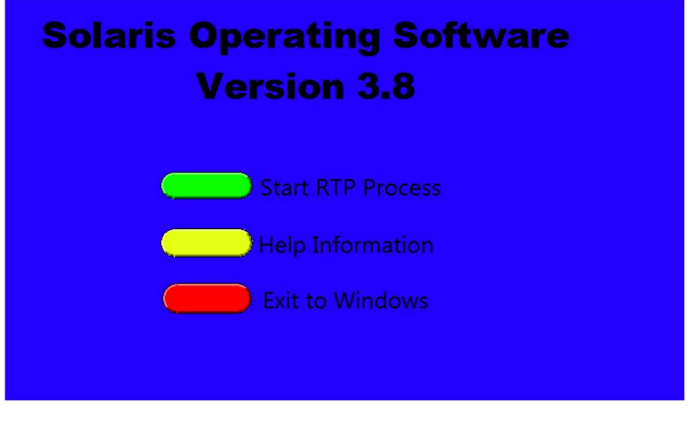
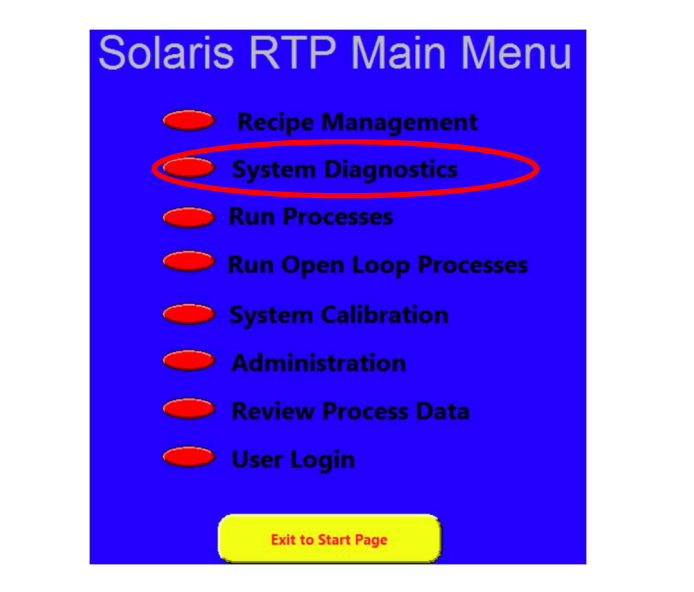
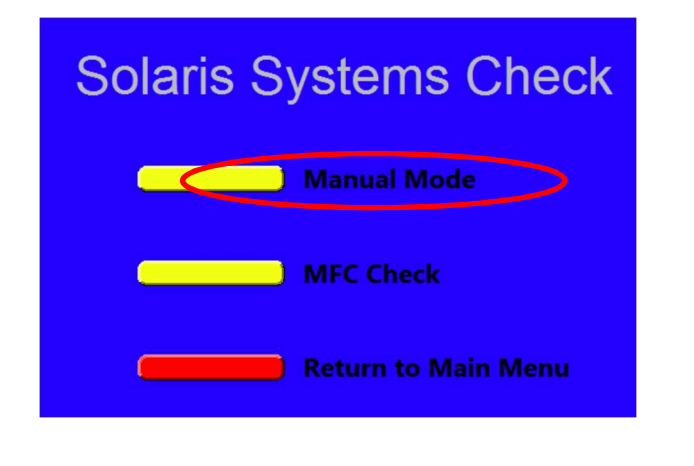




<p>3. CHECK THAT WATER, N2, and O2 LINES ARE OPEN.</p> <ul style="list-style-type: none"> • They are located behind the RTA on the wall down below; right hand side as you look at the rear of the RTA. 	
<p>4. THE RTA SHOULD ALREADY BE POWERED ON</p> <ul style="list-style-type: none"> • But if it is not, please power it on by pressing the green button. 	
<p>5. OPEN PROGRAM “SOLARIS VERSION 3.8”</p> <ul style="list-style-type: none"> • The program should already be open, but if it is not, please do so. • The icon is on the right. 	





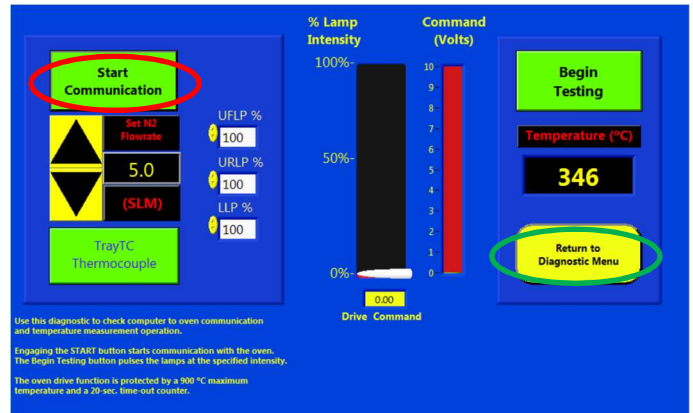
<p>6. CLICK ON “START RTP PROCESS”</p>		
<p>7. SELECT SYSTEM DIAGNOSTICS</p>		
<p>8. SELECT MANUAL MODE</p>		





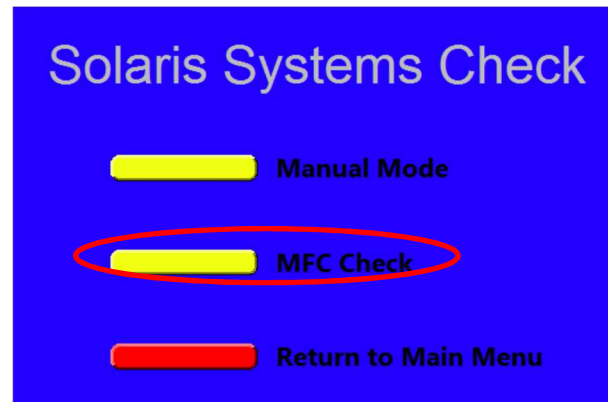
9. CHECK COMPUTER TO OVEN COMMUNICATION

- Click Start Communication.
- If communication is unsuccessful, please report the problem on Badger.
- Click Return to Diagnostic Menu.



10. MFC CHECK

Click on MFC Check.



11. CHECK GAS FLOW RATE

- Put in 10 under Flow Rate and check if Output matches.
- Click Stop and Return to Menu.
- If numbers don't match, please report issue on Badger.
- Click Return to Main Menu.

Gas Type	Flow Rate	Output	Units
Nitrogen	10.0	10.0	SLM
Oxygen	0.0	0.0	SLM
N/A	0.0	0.0	SLM
N/A	0.0	0.0	SLM
	0.0	0.0	SLM
	0.0	0.0	SLM





12. RECIPE MANAGEMENT

- Click on Recipe Management.

Solaris RTP Main Menu

- Recipe Management**
- System Diagnostics
- Run Processes
- Run Open Loop Processes
- System Calibration
- Administration
- Review Process Data
- User Login

Exit to Start Page

13. PARAMETERS

You can change the temperature and time on each of the following steps:

- Purge
- Ramp Up
- Hold
- Ramp Down
- Finish

PLEASE NOTE: Total flow rate in each step should be less than 10 SLM.

NOTE: THE MAXIMUM ALLOWED TEMPERATURE IS 1000°C

When done, click Exit.

Control Temperature, °C or Ramp Temp Limit, °C:

Step Time for Hold Step or Ramp Rate for Ramp Step:

Initial Intensity for Hold Step or Ramp Exit Modifier:

P.I.D. Values

P Value:

I Value:

D Value:

Current Recipe File: 900C_Ximxin.t

Remove Line

Select Line for Deletion:

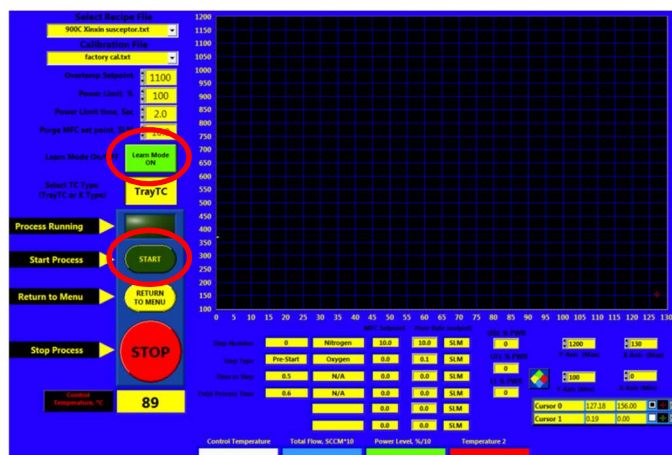
Step#	Operation	Control Temp	Ramp Rate/ Step Time	RM/ Intensity	Control Device	Nitrogen	Oxygen	N/A
1	Purge	0.0	60.0	0.00	Tray TC	9.1	0.9	0.0
2	Ramp Up	900.0	12.0	47.60	Tray TC	9.1	0.9	0.0
3	Hold	900.0	10.0	40.00	Tray TC	9.1	0.9	0.0
4	Ramp Down	400.0	200.0	0.00	Tray TC	10.0	0.0	0.0
5	Finish	400.0	200.0	0.00	Tray TC	10.0	0.0	0.0





14. RUN PROCESS

- Change number in “Purge MFC set point, SLM” to 10, select “Learn Mode On”. Then “Start Process”
- Dialog box will pop up at the end--Save data: Click “Store Data”





15. END PROCESS/LOG OUT

- Unload sample using tweezers.

CAUTION: SAMPLE MAY BE HOT. HANDLE WITH TWEEZERS AND BE MINDFUL OF WHERE YOU ARE PLACING IT.

- Make sure door handle is in the locked position.
- Please leave the RTA on and the program open for the next user.

Don't forget to disable the tool in Badger before leaving the lab.

