Asset No: 9400001408
Categorized: Research
Permission from: A/P Loh Ngaip Hiang
Remarks: Nil

Standard Operating Procedure

Power Supply

1. Turn “ON” the main power (Wall)
2. Turn “ON” Power on Control Panel

Temperature Controller (Zone1, Zone2, Zone3)

1. Max. Temperature: 1200 degree C
2. Continue Operation: 1150 degree C
3. Heating Zones: 8 + 6 + 8 inches
4. Power Consumption (max): 7.84 Kw, 230 to 240V

Controller

5. 4 Programs
6. 16 Segments (8 ramps, 8 dwells)
Stainless Steel Restort

7. Max Temperature: 1100 degree C (to operate in non-flammable atmosphere)

Precaution

8. Present power is 32 Ampheres, and may trip if operate at Max. Temperature
9. Allow furnaces to cool efore changing work tubes
10. If furnaces is used with gas atmosphere, always close the gas regulators and ‘zero’ the flow meter. Start at a very low pressure and adjust the flow accordingly. Never allow more than one atmospheric pressure in the worktube
11. Avoid running at very high temperature overnight without Supervision

Operating the Controller

1. Press and hold the program button
2. Program Number displayed (Pnr 1) – 4 programs
3. Press Program button**
4. Program Ramp rate displayed (Pr1) – 8 ramp rates
5. Set rate by pressing on ‘up’ or ‘down’ arrow degree C/Min)
6. Press Program button**
7. Program Level displayed (PL1) (max 1200 degree C)
8. Set Temperature by pressing ‘up or ‘down’ button (degree C)
9. Press Program button**
10. Program Dwell duration displayed (Pd1)
11. Set duration time by pressing ‘up’ or ‘down’ button (min)
12. Repeat from step 4 to 11 till the last dwell level
13. Press Program button**
14. Program Ramp rate displayed (Pr8) – last ramp rate
15. Set by pressing on ‘up’ or ‘down’ arrow (degree C/min)
16. Press Program button**
17. Program Level displayed (Pd8) – example 25 degree C
18. Press Program button**
19. Program Level displayed (PL8) – end