

AIR HEATER INSTRUCTION

1. Air source

It depends on types of application and how much air flow is required, under normal operation, it is 0.3 kg/cm² and above. Consequently, the high pressure blowers included rotary blower or air compressor, etc.—are recommendable.

2. Voltage Regulator

- A. Regulators with more than 5A capacity are acceptable in general case. Any of 200V (0-260V variable) or 100V regulator (0-130V variable) is good enough, although 200V regulator is preferable in case of **AIR HEATER** is used for extremely high temperature.
- B. It can be connected directly to 110V electric source without a regulator, however, it must be done under the circumstance that 20 L/min of air flow.

3. Air Flow Regulator

Either air valve or low pressure air regulator shall be used.

- 4. When air flow comes through a valve, the valve shall be placed nearer to air source than the location of the air regulator valve. If on the contrary, the high pressure air that comes in when the valve is opened, may damage the heater.

- 5. **AIR HEATER** is prohibited to be used beyond 1050°C. Pyrometer is recommended to measure the temperature. In case of pyrometer is not available, user may be able to determine the temperature by the colors of the heater element:

Colors	Temperature (°C)
Red at initial stage of heating	500
Dark red	700
Bright red	900
Light bright red	1000
Orange—Yellow	1100
Bright orange—Orange	1200

SPECIAL CAUTIONS

- The air flow **MUST** be given **PRIOR** to activation of the heater, and **MUST** be stopped **AFTER** cutting electricity. This should be strictly monitored.
- Due to consideration shall be paid to keep the temperature at the heater tail under 200°C.
- The air/gas **MUST** be clean all the time.
- **No warranty shall attach to all consumable parts (including the heater element), therefore, you are requested to observe the above conditions.**