

**Compact • Turn Key • Built in overheating protection  
Developed with safety in mind**

Malcom Company offers plug and play process heating control systems for use with all types of process heaters preconfigured for your application, incorporates PLC controlled technology, can be interfaced with customers PLC, for process heating systems requiring an air source the control system includes air flow monitoring and confirmation system, system and fault indication, overheating protection system, heating element protection system available on request, multi zone heating and or blower systems available on request.

Designed with safety in mind, Malcom's complete control systems are pre configured and tested for your application. Upon receipt of your control system, simply connect your components and start your process immediately. Control systems are designed so that no additional components are required.

### Control System Capabilities



Malcom Process Heating Control Systems are build to handle the following system requirements:

Volts:	120-480V volt 1 or 3 phase
Watts:	450 - 40000 watts per zone
Amps:	Up to 50 amps per Heater
Airflow:	Up to 1000 CFM depending on the selected air source.
Air Pressure:	Up to 10 psi depending on blower selected.
Temperature:	ambient - 1650°F (900°C)
Zones:	1 or 2 zones independently controlled
Custom Systems:	Malcom can customize a system for our customers needs. 230 - 480V 3 phase systems are available up to 40 Kw and 1000 CFM designed around your available power requirements
Certifications:	UL certified, built to UL508A ISO 9001:2000

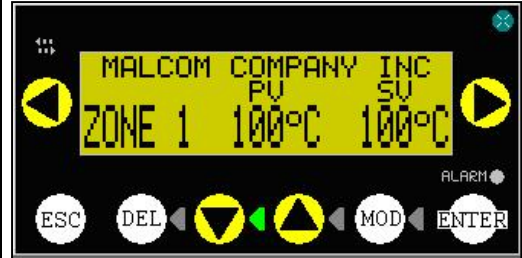
**Call Toll Free: 800-289-7505  
or check us out on the web**

**[www.malcomcompany.com](http://www.malcomcompany.com)**

## MALCOM PROCESS HEATING CONTROL SYSTEMS

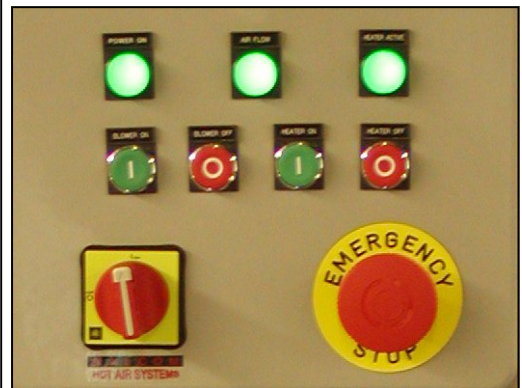
### Programmable Logic Controller Technology

- State of the art PLC with expansion capability and backlit LCD interface.
- Individual Zone Activation and Temperature Control
- Continuous Safety Monitoring Including Status Information
- Alarms are detected and identified.
- Error's can be auto-reset or manually reset during operation.
- Expandable Input/Output Modules
- Set up menu configurable for your application.
- Re-Programmable to suit your process.
- Remote Start Input Capable
- Auto-Tune feature or PID adjustability
- Air Flow Confirmation Circuitry
- System Ready Status Bit



### Redundant Safety Interlocks

- Process controller configured to prevent catastrophic failure of equipment.
- Electrical design is configured independently of the control system for safety.
- Fully assembled Electrical Enclosure built to UL508A standards
- Overheating detection along with airflow confirmation determined per zone.
- Emergency stop feature.
- Electrical Safety Interlock



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