

Malcom Hot Air Systems PLC based Control System



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System Overview

- Plug and Play turnkey system preconfigured for your application
- Incorporates PLC technology
- Redundant safety interlocks
- Configurable for multiple heat zones
- Independent blower/heater control
- Interface with other industrial controllers
- Programmable for specific applications

Plug and Play

- Systems are pre-configured for your application and pre-tested.
- No need to divert your company resources to design and install safety interlocks.
- Specifically designed around your available power requirements.
- No additional components are required.
- Plug the system in and start your hot air solution immediately.

Programmable Logic Controller Technology

- State of the art PLC with expansion capability and backlit LCD interface.
- Alarms are detected and identified.
- Error's can be auto-reset or manually reset during operation.
- Set up menu configurable for your application.
- Re-Programmable to suit your process.

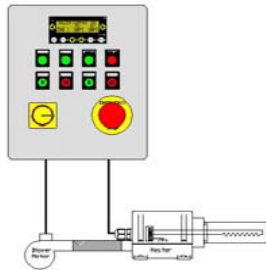
Malcom Process Control System



Redundant Safety Interlocks

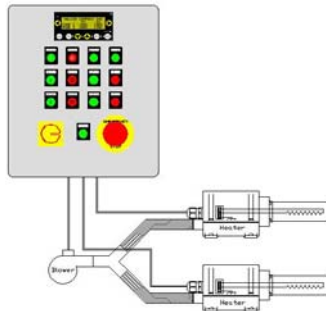
- Process controller configured to prevent catastrophic failure of equipment.
- Electrical design is configured independently of the control system for safety.
- Overheating detection along with airflow confirmation determined per zone.
- Emergency stop feature.
- Lock out tag out compliant.

Configurable for multiple zones



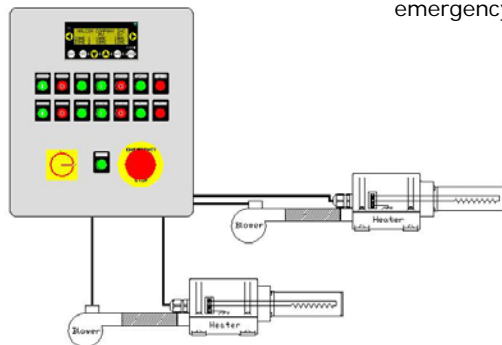
•Single Zone Single Blower

Malcom's single zone single blower system was developed for the application requiring only a single heat source. The system is specifically designed to operate and monitor a single heater and blower combination. Each component is independently controlled and monitored. The control system is designed for quick and easy installation with internal safety interlocks and emergency stop already implemented.



•Dual Zone Single Blower

Malcom's dual zone single blower system was developed for the applications requiring multiple heat sources. The system is specifically designed to minimize implementation costs associated with applications requiring multiple heat sources. A single controller regulates both zones eliminating the need for multiple temperature controllers. Each zone is independently activated and temperature is independently regulated. The control system is designed for quick and easy installation with internal safety interlocks and emergency stop already implemented.



•Dual Zone Dual Blower

Malcom's dual zone dual blower system was developed for the applications requiring overall independent process control. The system is specifically designed to allow customers to run a process hot air system for multiple production lines. Each zone is configured for independent activation of air and heat. A single controller monitors both zones eliminating the need for multiple temperature controllers and hardware associated with multiple blowers. Each zone can be operated independent of the other. The control system is designed for quick and easy installation with internal safety interlocks and emergency stop already implemented.

Independently controlled zones

- Each zone independently controlled actuation and temperature regulation.
- Ability to configure KW and CFM per zone.
- Individually monitored alarms per zone.
- Alarms configurable by zone or globally.

Interface with other controllers

- Remote signal input with start up routine
- Status output bit when temperature has been reached
- Alarm output bit for error status on process control
- Optional communications capable RS485.

Programmable per application

- Application specific programming for OEM's possible.
- Programmable for variable speed drives.
- Specific display message for configured for the process monitoring and control.
- Duty cycle process heating.

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