

Nitrogen Methanol Control System

Precise measurement and control for consistent atmosphere generation in a variety of furnace applications.

Includes

- Matrix Control System w/ 5.7" Touch Screen
 - Ethernet - Modbus TCP
 - RS485 - Modbus RTU
 - Allen Bradley DF1
 - Expandable I/O
 - Remote Control/View
 - Sophisticated PID Algorithms with Auto Tuning
- Built-in Data Logging
- Nitrogen eFlo Meter - Process
- Nitrogen Gauge Meter - Purge
- Methanol Liquid eFlo Meter
- All Required Piping
- Regulators for Nitrogen and Methanol
- High Flow / Low Flow Settings



Safeties Include:

- Methanol Flow Switch
- Process Nitrogen Flow Switch
- Emergency Purge Nitrogen Flow Switch
- Nitrogen Pressure
- 1400°F Interlock
- 800°F Low Temperature Interlock
- Burnoff Pilots Active
- Recirculation Fan Running
- Emergency Purge
- 5x Volume Exchange Purge In/Purge Out
- Minimum Flow Monitoring
- Regulators for Nitrogen and Methanol
- High Flow / Low Flow Settings
- Overtemp (when temperature control loop present)

Optional Carbon and Temperature Loop Control

- Enriching Gas Flow Meter
- Dilution Air Flow Meter
- Recipe Control
(Ramp, Soak, Guarantee Soak, Event Control, etc.)
- Deviation and Band Alarms



Nitrogen Methanol Control System

With Innovative eFlo Flow Meter Technology



eFlo Flow Meter



eFlo-L
Liquid Flow Meter



eFlo Gauge Meter

Additional Options

Gold Probe

- Delivers precision and repeatability in a variety of controlled atmosphere heat treating processes
- Various sizes and optional thermocouple types
- Specialized sheath design for high carbon and temperature applications



Model 500

Single Probe Reference Air / Burnout System

- Reference air and burnout flow scopes
- Internal, independent reference air and burn off air sources
- Designed to be mounted near the oxygen probe on the furnace



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