

# ENDOINJECTOR™

## FUEL-INJECTION MIXING SYSTEM FOR ENDOTHERMIC GAS GENERATORS

The EndoInjector™ is a precision gas mixing and control system for endothermic gas generators. The system incorporates a patented fuel injection design that utilizes electronic flow measurement and precise ratio control to consistently provide the ideal gas mixture for high quality endothermic gas generation.



The EndoInjector™ significantly reduces operating costs by eliminating gas waste. The fuel injection design automatically provides gas mixture on demand, providing only as much endothermic gas as your furnaces require. Designed to easily replace existing carburetor/pump designs, the EndoInjector™ typically pays for itself in less than one year.

### FEATURES & BENEFITS

- Full-color touch screen
- Integrated dew point control
- Integrated temperature control
- Ratio controller
- Fuel-Injection control valve
- Integrated paperless chart recorder (5+ yr. data storage)
- Large turndown capability
- Reduce operating costs
- Touch screen control interface
- Minimize generator setup/startup time
- Electronic air flow meter
- Electronic gas flow meter
- Mixing blower
- Relief valve
- Air inlet filter
- Eliminate gas waste
- No lubrication required
- Precision dew point control
- Eliminate soothing of catalyst due to mistuned carburetors

### SPECIFICATIONS

Control Power	110/220 VAC @ 50/60Hz
Blower Power	230/460 VAC 3 Phase
Capacity	100-6000 CFH (Standard) 100-14,000 CFH (Extended)
Turndown	5:1 (or greater)
Min Gas Pressure	+2.5 PSIG (Standard) +0.5 PSIG (LP Model)
Max Gas Pressure	5 PSIG All Models
Max Operating Temp	180°F
Communication Ports	232/485/Ethernet
Protocol	ModbusRTU
Ports	2" NPT (unless otherwise specified)
Gas Types	Propane or Natural Gas



**“INTEGRATED FLOW CONTROL SOLUTIONS”**

(414)-331-2457 • sales@atmoseng.com • www.atmoseng.com

# GENERATOR CONTROL PANELS

## ENGINEERED FOR PERFORMANCE

Our generator control panels are engineered to include the latest in gas generation control devices and sensors to meet the most demanding quality control requirements in the heat treating industry. These panels are available for either simple control upgrade projects or a complete generator control panel replacement.

The complete panel replacement includes new motor starters, power transformers, relays, fuse blocks and fuses, dew point controller, temperature controller, over-temperature controller, touch screen interface, push buttons and integrated paperless chart recorder. In addition, the new panels come with a complete and accurate wiring diagram and sub-component documentation.

This panel can also be tied into an EndoInjector gas mixing system to provide a complete front end to a gas generator.

## FEATURES & BENEFITS

- Multiple independent retort control
- Integrated EndoInjector™ gas mixing system
- Full-color touchscreen interface
- Dew point control and sensor system
- Temperature control
- Paperless chart recorder
- Ethernet communications
- Flame safety inputs
- Updated and accurate wiring prints
- Sub-Component Documentation
- Built to meet NFPA 86 guidelines
- Turnkey installation

*Contact our sales engineers to design a control system that best suits the needs for your generator.*



### INFORMATION REQUIRED

- Incoming power supply available
- Number of independently heated zones
- Number of cooling fans
- Motor power ratings for combustion/mixing/cooling
- Gas safety value requirements

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