

ENDOTHERMIC GAS GENERATORS



ENDOFLX™



MICROGEN™

The EndoFlex™ and The MicroGen™ are the most advanced endothermic gas generators available. They combine the patented EndoInjector™ fuel injection generator control system with our recently developed, high efficiency ReactionCore™ technology to lower the operation and maintenance costs of producing high quality endothermic gas for your heat treatment furnaces. The EndoFlex™ and MicroGen™ are both equipped with the latest sensors to monitor dew point, unreacted methane, and energy consumption. A large custom designed touchscreen interface provides easy access to review generator operation and the integrated paperless chart recorder tracks generator performance to meet production auditing requirements.

REACTIONCORE™ TECHNOLOGY

ReactionCore™ technology is a proprietary generator design that replaces a single large retort with several smaller centrifugally cast retorts to significantly increase the surface area and improve heating efficiency of the reaction chamber. Compared to older large retort designs, our ReactionCore™ technology reduces the necessary heating energy required for the production of endothermic gas. In addition, the smaller retort design significantly reduces the cost of replacement when necessary.

ENDOINJECTOR™ CONTROL SYSTEM

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.



ENDOINJECTOR™

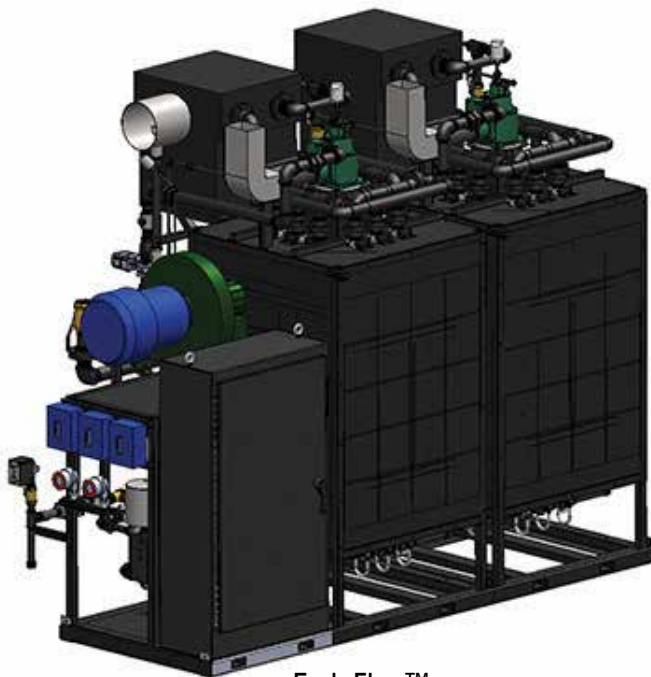
INTEGRATED FEATURES & BENEFITS

- Lower operating costs and emissions waste from 20-80% of generator capacity
- Automatic endothermic gas pressure control, eliminating regulator adjustments
- Multi-retort design reduces cost and allows for quick replacement of essential components
- Separate methane (CH₄) sensors provide data for scheduling retort burnout for each chamber
- Filter change indication, improving system efficiency and operation time
- Built-in software for ease of scheduling, maintenance and paperless data logging

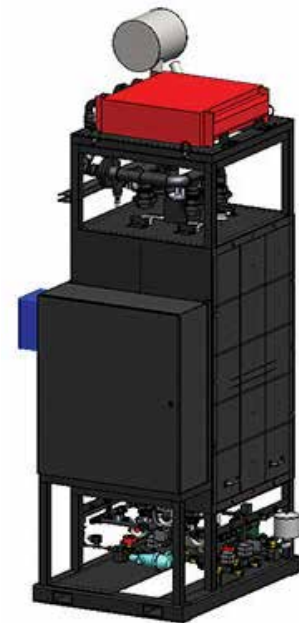
TOUCHSCREEN CONTROL INTERFACE



3D MODEL DRAWINGS



EndoFlex™



MicroGen™

“INTEGRATED FLOW CONTROL SOLUTIONS”

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