

# SaniFlame 300P



Gasification solutions by  
SaniFlame Inc.

## INNOVATION IN GASIFICATION

Pathological • Deadstock • Specified Risk Material • BSE • MSW • Medical Waste • Pharmaceutical • Contaminated Food

SaniFlame is a unique gasification system designed by SaniFlame Inc. which corrects current shortcomings of the deadstock disposal equipment. Designed to meet the latest government regulations, it provides a highly efficient and convenient way to safely dispose of the multitude of poultry wastes challenging producers.

### Unique Features

- Easy access for loading and ash removal
- Leak-proof shell construction
- Innovative afterburner design
- Modular corrugated hearth design
- Enclosed control area
- Options for leasing available
- Superior & thicker light-weight ceramic fibre insulation
- ETV Canada certified
- Exceeds the new 2012 Ontario incineration regulation (106 / 09) for disposal of dead farm animals.

### Resulting Benefits

- Greater convenience, increased productivity & flexibility
- More hygienic and safer waste material handling
- Higher efficiency with a smaller footprint
- Improved heating and simplified maintenance
- Suitable for indoor or outdoor operation
- Lower emissions & operating cost
- Long term equipment life
- Proof of regulatory compliance
- Ensures clean and odorless emissions
- Permits continued use of incineration for disposal
- Convenient purchasing process

### Specifications

Nominal Load Size	600 lb.
Burn Cycle Time	6 hrs. (load dependent)
Number of Burn Cycles/Day	2
Door Opening	54" wide x 26" high
Loading Height	26" above ground
Internal Dimensions (L x W x H)	60" x 50" x 44"
Footprint (including stack) (W x L)	70" x 152"
Fuel	Natural Gas / Propane / Diesel
Afterburner Performance (Residence Time @ Temperature)	2 seconds @ 850°C 1 second @ 1000°C
Approximate Weight	18,000 lbs.



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## The SaniFlame 300P Advantage

The SaniFlame 300P has been designed to process waste streams generated by the poultry industry, using the same principals developed for the SaniFlame 1000 system.

### System Features:

- Batch operation
- Accessible hearth and full width loading
- A unique afterburner design which exceeds all current design requirements
- Automatic control of air and auxiliary fuel
- Light weight insulation modules reduce operating costs
- Designed for unsupervised outdoor operation
- Door is double sealed with a positive gas seal to prevent leakage

### Innovative Primary Chamber Design

Access to the chamber is via a full width door and material is placed by hand onto grooved replaceable hearth tiles. Once the poultry waste has begun to gasify, the start-up burner is switched off as there is sufficient energy in the material being processed to maintain the preset operating temperatures.

### Innovative Afterburner Design

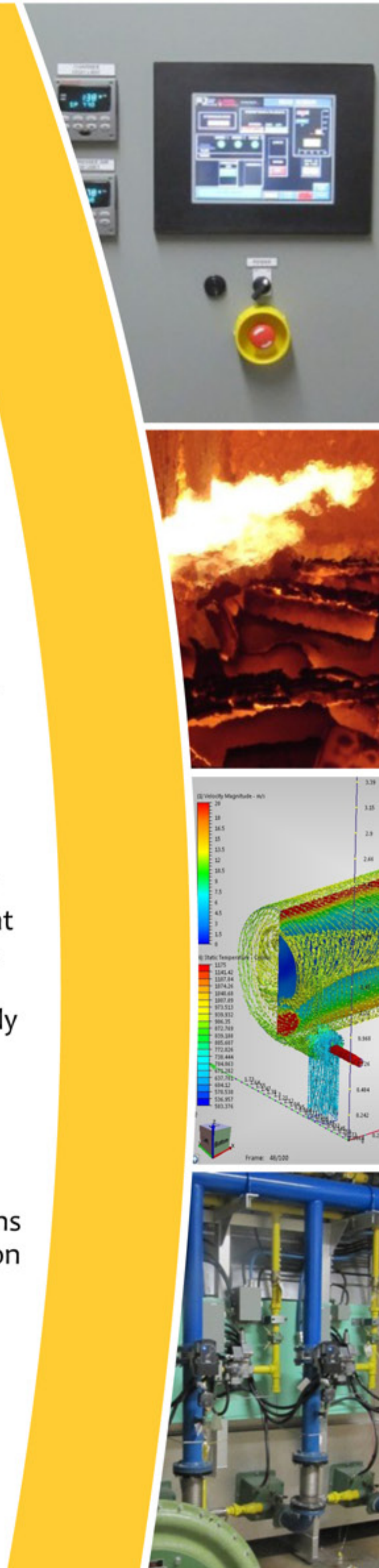
The afterburner is a technological advancement over conventional designs. The position of the burner and the design of the transfer duct for the primary chamber off-gas, ensures that the flame and off gas are mixed as they enter the afterburner chamber. This eliminates the possibility that unprocessed off-gas exits the afterburner without burning. The design also causes a significant quantity of the off gas to be recycled inside the afterburner, dramatically increasing the residence time and therefore the destruction efficiency of the afterburner.

### Controls

The control system features fully automatic temperature control for both the afterburner and the primary chamber. The control system automatically responds to changing conditions in the primary chamber, adjusting the gasification air in the primary chamber and the dilution air for the afterburner.

### Safety Code Issues

The system has been designed to be in full compliance with B149.3 for all our Canadian installed equipment. NFPA and EN 746.2 are also available on request. Control panels are built to and are certified by CSA. CE panels are available on request.



# SaniFlame Inc.

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