

SOOTING-FREE ENDO THERMIC GAS GENERATOR

Sooting-free Endothermic Gas Generator

This new model, which uses regeneration gas burners and requires almost the same installation space as that of electrical heating furnaces, drastically improves environmental performance and reduces CO₂ emissions, energy costs, and maintenance costs as well.



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FEATURES

- Heating by using swirl flow type regeneration gas burners significantly reduces production costs of endo thermic gas.
- New mechanisms such as double-path type retort, pulseless blower, and a special heating system are adopted.
- This product reduces CO₂ emissions and drastically improves environmental performance.
- Electrical heating gas generators that can be installed in the same sized area as those of gas heating type gas generators are available.
- As with conventional electrical heating furnaces, this product is sooting-free and almost completely prevents generation of soot in the retorts (there is no need to burn it out).

SPECS

| Model | Endo thermic gas yield | | Raw gas for endo thermic gas | Combustion gas | Required flow rate (Nm ³ /hr) | Burner specifications |
|---|------------------------|----------------|------------------------------|--|--|---|
| | (m ³ /hr) | | | | | |
| SF-4000-EN-RG | 56 – 112 | | Natural gas | Natural gas | 2.7 – 4.4 | 80kw Regenerative burner with 3-way switching valve |
| | | | Propane gas | Natural gas | 2.0 – 2.8 | |
| | | | | Propane gas | 0.9 – 1.2 | |
| | | | Butane gas | Natural gas | 1.9 – 2.6 | |
| Butane gas | 0.6 – 0.9 | | | | | |
| External dimensions of furnace (numbers in parentheses are for electrical heating furnaces) | | | Operating temperature (°C) | Example compositions of standard generated gases | | |
| Width (mm) | Depth (mm) | Height (mm) | | CO (%) | CO ₂ (%) | CH ₄ (%) |
| 1162 (1162) | 2480 (2480) | 3210 (2960) | 1080 | CO and CH ₄ constituents when composition percentage of CO ₂ is specified) | | |
| | | | | 23.5 | (0.25) | 0.04 or below |
| | | | | (23.5 – 24.5) | (0.22 – 0.28) | (0.00 – 0.04) |
| (Numbers in parentheses are records from four months of continuous operations.) | | | | | | |

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