DOWA

DOWA THERMOTECH CO., LTD.

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 CO_2 emissions, energy costs, and maintenance costs as well.

Sooting-free Endothermic Gas Generator

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 CO_2 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 (m^3/hr)	Raw gas for endo thermic gas	Combustion gas	Required flow rate (Nm^3/hr)	Burner specifications
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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2019/09E