

NEW!



GAS CATALYTIC HEAT GENERATOR



- During several years Institute of Thermoelectricity conducts investigations of catalyst and catalytic generators development of different purposes. Generators are used for heating of buildings, greenhouses, equipment, drying of various products including in the atmosphere of explosive gases. Catalytic heaters are also used as heat sources for thermoelectric generators
- Gas fuel combustion (methane, propane, butane) is flameless on the designed catalysts and also at relatively low temperature of 400-600°C. Hydrocarbons conversion reaches 100% and is conducted without essential excess of air that ensures rational fuel use.
- Depending on the fuel used and the catalyst activity, one can receive 3-5 W of thermal energy from 1 cm² of the catalyst radiation surface.

Appearance of catalytic generator



- The developed catalyst have small additives of noble metals, they are cheap and have large continuous service life.
- Catalyst generators are equipped with smooth control of thermal power, they are independent, may be placed in any part of a building, they are simple and absolutely safe in operation.

Technical characteristics of heat generators

Maximum thermal power, W	1000	2000	3500	3700
Type of fuel	propane-butane	propane-butane	propane-butane	methane
Fuel consumption, g/h	72	144	252	270
Temperature of radiation surface, °C	400-420	400-450	400-450	430-460
Continuous service life of the catalyst, h	15000	15000	15000	11000
Overall dimensions, mm	150x300x340	150x300x340	180x260x420	180x260x420
Weight, kg	3.0	34	40	4.0

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