

# KRYOTHERM Company

room 211, 7A Zelenkov lane, Saint-Petersburg, 194044 Russia;

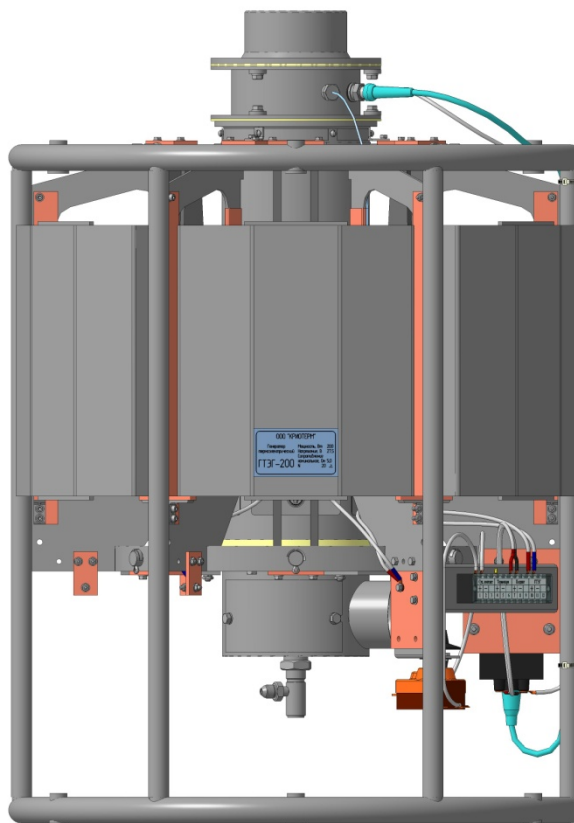
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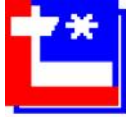
e-mail: [info@kryotherm.ru](mailto:info@kryotherm.ru); <http://www.kryothermtec.com>

GAS fuel THERMOELECTRIC GENERATOR

GTEG-200

«Easy to install, simple to use»





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## GTEG-200 DESCRIPTION

### 1. Purpose

Thermoelectric generator GTEG-200 is high reliable remote power supply unit working with natural gas or propane. GTEG-200 generates electrical power converting directly heat energy into electricity. It does not contain moving parts, have extremely long lifetime and require minimal service. Ignition starts working automatically as soon as fuel pressure appears in fuel pipe connection.

GTEG-200 is meant for use as an electric direct current (DC) power and heat source as part of an autonomous power supply source (APSS). As the core part of GTEG medium temperature thermoelectric module is applied. Best efficiency and reliability, based on modern technologies and know-how provide ultimate parameters. GTEG run unattended within one year in different climatic zones at an air temperature from  $-50^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  and relative air humidity up to 98%.

### 2. Main parameters of GTEG-200

Parameter	Parameter value
Nominal voltage (factory presets), V	12 or 24 (28)
Nominal electric power at matched load, W, min	200
Fuel grade (factory presets) :	
Natural Gas -	37 MJ/m <sup>3</sup> (1,000 BTU/cu.ft.)
Propane/LPG -	93 MJ/m <sup>3</sup> (2,500 BTU/cu.ft.)
Butane -	108 MJ/m <sup>3</sup> (2,900 BTU/cu.ft)
Heat receiver temperature under nominal conditions, °C, max	500
Inlet gas pressure, kgf/cm <sup>2</sup> , max	1.3
Gas fuel consumption, m <sup>3</sup> /day, max - Natural Gas	16



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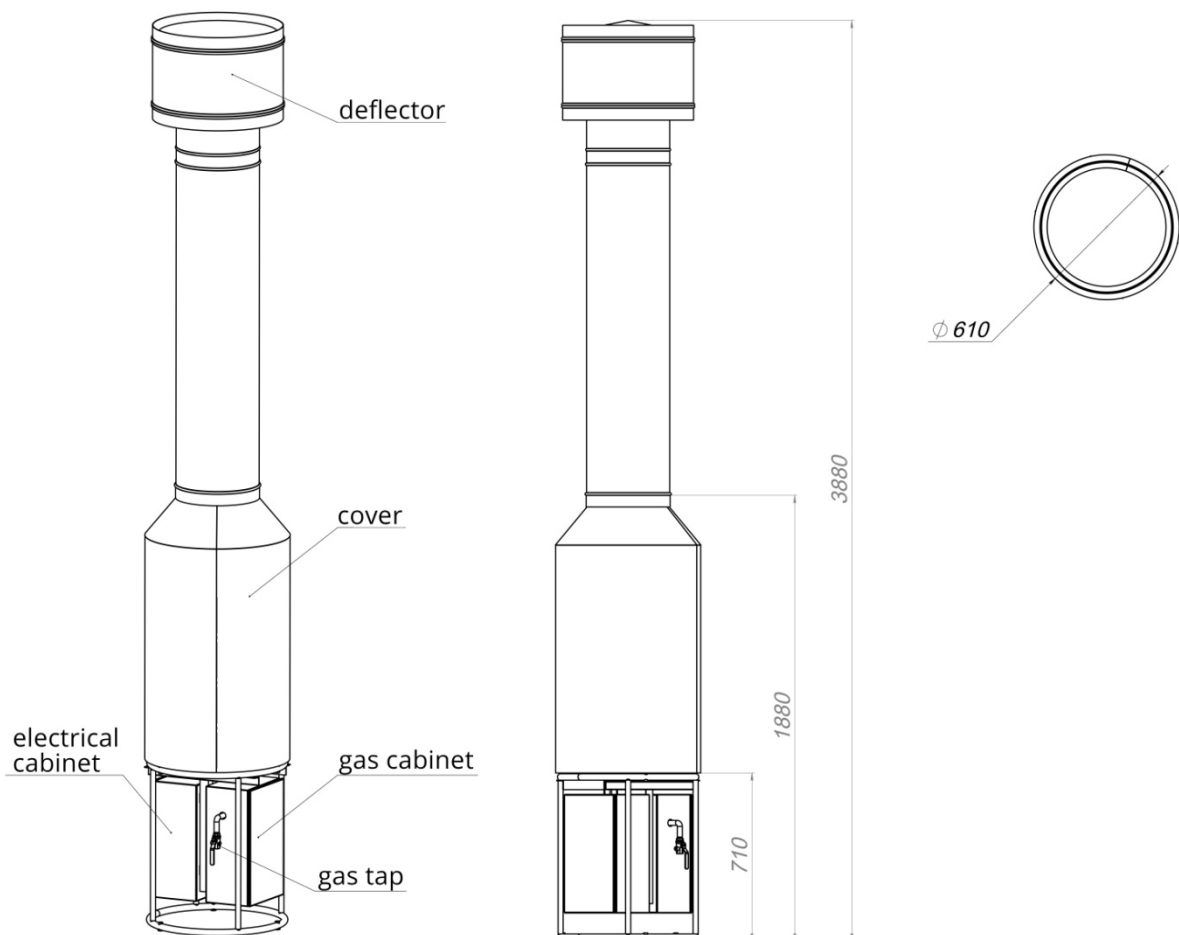
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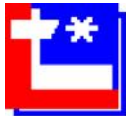
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Life-time, years, min	25
Isolated operation mode, h, min	8,760
Nominal condition warm-up time, h, max	1.0
Overall dimensions (without exhaust system), mm, max:	
- diameter	600
- height	1880
Weight netto, kg, max	157

### 3. Main parts of GTEG-200



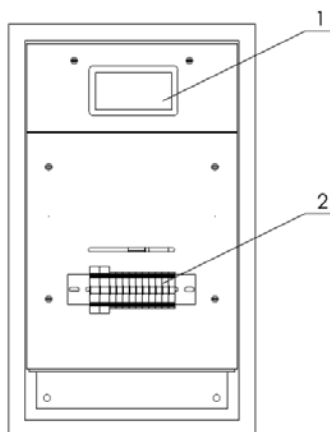


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The electrical cabinet houses:

1- automatic combustion control

2- terminal strip.