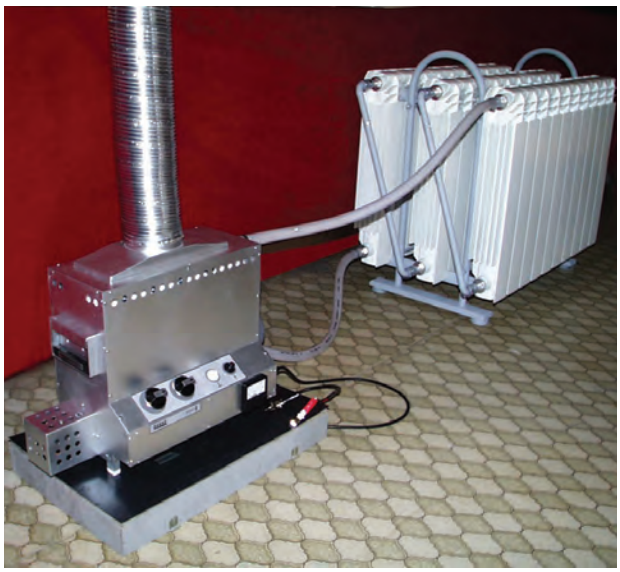
THERMOELECTRIC GENERATOR FOR AUTONOMOUS GAS HEATING SYSTEMS



Areas of Application

The thermoelectric generator is designed for power supply to electric devices of autonomous gas-fired heating sources (tanks, boilers)

Specification

Electric power, W	65
Output voltage, V	12
Thermal power, kW	1.8
Operational life, years	≥10
Overall dimensions, mm	260 × 220 × 100
Weight, kg	8

Advantages

The autonomous thermal generator provides an efficient system for forced convection of liquid heat carrier and forced removal of flue gases from the combustion chamber of water heater. This leads to an increase in efficiency of heating sources and an essential reduction in the content of toxic NO_x and CO gases in fuel combustion products. This thermoelectric generator has a long service life, is reliable, noiseless, and has no movable parts.
Its use enables operating heating systems independently of centralized power grid

Stage of Development. Suggestions for Commercialization

IRL6, TRL6
Manufacture, supply, and staff training, upon request

IPR Protection

IPR3

Contact Information

Pavlo D. Mykytiyk, Institute of Thermoelectricity of the NAS of Ukraine and the Ministry of Education and Science of Ukraine; +38 037 22 4 44 22, e-mail: anatych@gmail.com