

## KVMU-1.25 GN MODULAR GAS-FIRED WATER BOILER WITH UTILIZER OF EXHAUST GASES HEAT



### Areas of Application

The boiler is to be used for heat and hot water supply to residential, industrial, and administrative facilities in closed heating systems

### Specification

Nominal heat output, MW	1.25
Fuel (natural gas) consumption, m <sup>3</sup> /h	116
Heat transfer agent operating pressure, MPa	0.6
Range of heat output regulation, %	10–110
Heat transfer agent consumption, m <sup>3</sup> /h	5–16.5
Hydrodynamic resistance, kPa	50
Estimated service life, years	25

### IPR Protection

IPR3

### Advantages

The boiler has a relatively low cost of production, a payback period of 12 months, and the highest possible efficiency (98%) within the whole range of load; the modular configuration enables to use each module separately; in addition to heat energy, the boiler can generate electric energy. This boiler enables up to 40% gas saving as compared with the obsolete boilers; 40% reduction in NO<sub>x</sub> emission; no CO emission

### Stage of Development.

#### Suggestions for Commercialization

IRL8, TRL8  
Manufactured and serviced within warranty period, upon request

### Contact Information

Alexander I. Chaika, Institute of Engineering Thermophysics of the NAS of Ukraine;  
+38 044 456 93 81, e-mail: chaika@ittf.kiev.ua