

The invention relates to power units for obtaining high-temperature gas through burning fuel in air flow with following (or, if needed, without it) cooling of combustion products to given temperature with dispersed water, as result of that vapor-gas mix is formed. Heat generator has air blower, pipe for preparation of fuel-air mix with coaxially installed in it flow separator arranged as diffuser with collector for fuel supply, flame stabilizer arranged as perforated cone turned with top to side of flow separator, and combustion chamber.