

Gas generator with a split cycle between the combustion and reduction zones, the drying zone, and the dry distillation zone consists of a fuel loading hopper, a heat exchanger with a hot bed, a poker in the drying zone, and a hydraulic cylinder for moving the fuel; a reactor with a shaft equipped with monitoring sensors, thermal insulation, a grate, above which is located the glowing coal zone and a second poker that pushes the ash into the sealed ash box of the smoke exhauster, which creates a vacuum zone into which two pipes are fed—a warm air pipe, heated in the heat exchanger, and a pipe for the tar vapor formed, a pyrolysis pipe through which the generated synthesis gas is extracted; a cold-air pipe and a coil; and control cabinets through which the processes are managed.