

The device for recycle of combustion products of heat engineering units contains stove with the primary furnace, nozzle, checker-supporting device with chimney valves, a ventilator with the pipeline of combustible gas, connected with a burner, waste-gas flue, pipeline for the smoke supplying. A pipeline for the smoke supplying is hermetically connected by one end with a waste-gas flue, and the other end is set eccentrically at the distance of  $0.6 - 0.8 d$  from the inlet delivery pipe of the burner and is equipped with the mobile nipple, in addition, the pipeline is equipped with the throttle set at the distance of  $5 - 7d$  from its end at the inlet delivery pipe of the burner, where  $d$  – is diameter of pipeline for the smoke supplying.