

A heater of fuel and launch gas has a housing, a pipe heat exchanger and a heat generator, a tank filled with intermediate carrier, a heat pipe and a burner unit. The heat generator is made as lower evaporator and the upper condensation collectors, those are connected to each other by system of evaporation and circulation pipes. At that, in the upper condensation collector there is installed a pipe heat exchanger, and as the tank with intermediate heat carrier is the lower evaporation collector.