

A combined power unit of a transport vehicle has two engines that use different sources of energy - internal combustion engine (ICE), and pneumoengine made with possibility of passage of working fluid from a pneumatic cylinder through a heat exchanger mounted in a front pipe, both engines are mechanically connected to a transmission mechanism connecting the engines to axle wheels, wherein the transmission mechanism is designed as a planetary gear, one shaft of which is connected to the internal combustion engine, and the second – to the pneumoengine, and the third – to the drive wheels of vehicle and an autonomous compressor. In the case in the liquid pipe of the ICE cooling system an additional heat exchanger is mounted for preheating working fluid before it is heated in the heat exchanger located in the front pipe.