

The invention relates to photovoltaic panels based on direct conversion of solar energy into electrical energy by means of photovoltaic cells, and to solar technology, in particular to liquid heating devices.

The system, according to the invention, includes photovoltaic thermal panels (1, 2, 3), which are connected by means of liquid pipelines (4, 5) and a pump (8) to a heat pump evaporator (PC), using the panels (1, 2, 3) as collectors of energy from the environment. At the same time, the pump condenser (PC) is connected by means of a pump (19) to a heat exchanger (11) from a household hot water tank (12) and in parallel to a heat exchanger (17) from a hot water tank for heating (18), and the second heat exchanger (20) is connected by means of a pump (24) to a heating system (21). The processes in panels (1, 2, 3), tank (12) and tank (18) are controlled by a control system with temperature switches (27, 28, 29), respectively.

Claims: 1

Fig.: 1

