

ABSTRACT OF THE DISCLOSURE

ROOM SOLAR ENERGY HEATING AND REFRIGERATION AIR CONDITIONER OF SPLIT TYPE

A room solar energy air conditioner of split type comprises an indoor machine mainly composed of an evaporator, a circuit control panel and an air blower, and an outdoor machine; said outdoor machine is provided with a solar energy storage assembly comprising an energy storage tank and vacuum heat collectors having energy storage material filled therein; an exchanger is mounted within the energy storage tank, the pipeline of one end of which is connected with the evaporator of the indoor machine through a condensation device and the pipeline of the other end is connected with the evaporator through a power driving device (an overflowing pump or a low-power compressor) connected in serial with the pipeline through an electromagnetic change valve; the exchanger, the condensation device and the evaporator of the indoor machine compose a closed recycle passage in which low-boiling point recycle medium is filled.

FIGURE 1