A SOLAR AIR CONDITIONING SYSTEM AND A RELATED METHOD

Abstract

The present invention provides a solar air conditioning system, the system comprises a solar collector configured to heat and compress working fluid to a temperature and a pressure; and a compressor downstream from the solar collector, the compressor including at least one sensor configured to determine the temperature and pressure of the working fluid at which a work load of the compressor can be reduced. The temperature and pressure of the working fluid compressed by the solar collector are dependent on an amount of solar energy harvested at the solar collector. The corresponding method for conditioning air is also disclosed.

Figure 1