

# Experiences of solar cooking in Portugal during last six years

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The author learned to solar cooking using the cardboard solar Cookit on the year 2006. A more efficient solar panel cooker were developed on the year 2007 using sheets of polypropylene and using recycled windows of cloth washing machines to make the green house effect around the pot as illustrated in Fig. 1. This funnel cooker is portable and evidences an acceptable performance during cold months. On year 2007, Prof. Pedro Serrano from Chile came to Faro to transfer technology related to the parabolic model ARTESOL. A constructed model following the design instruction of Pedro Serrano is illustrated in Fig. 2.



Fig. 1 Funnel cooker



Fig. 2 Parabolic cooker ARTESOL

More recently, the new funnel cooker illustrated in Fig. 3 has been developed and tested since 2009. The funnel is made of concrete and common mirrors. Some of the main advantages of this solar cooker are: low cost reproduction in every part of the world using local available common materials, intuitive and practical use, water rain resistant and wind resistant and no risk for fire ignition. The useful heating capacity of this model was estimated around a value of 100 W.



Fig. 3 Funnel cooker.