

# Tunisia s new solar air conditioner





## Overview

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In this chapter, we present a passive energy system, called air-conditioning cupboard which exploits renewable energies (hot water supplied from solar collector [40-50°C] and cold groundwater (19°C)) as thermal sources, is conceived and tested in our laboratory (Laboratory of Thermal Procedure, LPT Tunisia). What is the cooling capacity of AC in Tunisia?

ing parts manufactured in other countries. According to the d )4.3 Product Size and Energy Performance There are five cooling capacities of ACs available on the Tunisian market: 9,000, 10,000, 12,000, 18,000, and 24,000 Btu/hr. Of the 128 models surveyed, the most common cooling capacity was 12,000 Btu/hr (36%), followed by.

How much does an air conditioner cost in Tunisia?

d products (cost, insurance, and freight). Khalfallah and Hanchi (2017) estimated that in the formal market a 9,000 BTU air conditioner is sold for 750 Tunisian dinar (TND), as compa to only 450 TND on the informal market. Based on our analysis of the 2020 market, we estimated that the informal m.

How many AC units are sold in Tunisia?

timated Sales of ACs in Tunisia, 2020-2040 Based on the PAMS modeling tool, the AC market was estimated to comprise 238,000 units sold in 2020 and is expected to grow to 600,000 units by 2040. Although this estimate is conservative compared to that of the World Bank Group (2016), it was discussed and.

How many BTU/hr is a Tunisian AC?

)4.3 Product Size and Energy Performance There are five cooling capacities of ACs available on the Tunisian market: 9,000, 10,000, 12,000, 18,000, and 24,000 Btu/hr. Of the 128 models surveyed, the most common cooling capacity was 12,000 Btu/hr (36%), followed by 8,000 Btu/hr (23%) and 9,000 Btu/hr (20%). Figure 12 shows the bre



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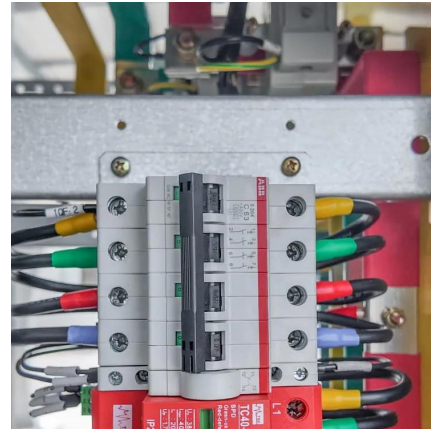
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A theoretical model is employed for the sizing of the air-conditioning cupboard to obtain the required temperature values. This model allows also the determination of the air-cupboard ...

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