

ABSTRACT

ECO AIR COOLER

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The earth's temperature has relatively increased from 1981 to February 2021. The increase in temperature on earth has made many people choose to use air conditioning so that the temperature in their homes is not too cold. The energy demand from air conditioning worldwide will be three times as much by 2050. Air conditioning is one of the major consumers of electrical energy in many parts of the world today. This invention aims to show the effectiveness of using a smart air cooler in producing an air cooler made from used tyres, plywood, a fan, and a cooling device as major components and reducing environmental problems in daily life. The used tyre was taken out from the car tyre mechanic shop. Then the tyre inside and outside was cleaned with water. The plywood was cut into round shapes according to the length of the diameter tyre. The gum was paste surrounding the plywood. The plywood was stuck in front and behind the tyre's surface area. The small holes were made in front of the tyre. Then the inside part of the box was fix with cooling box. Next the behind part of the box was attached with the fan. Lastly the smart air cooler was ready to use. Pupils felt comfortable with using the smart eco-air cooler box. From the data survey with Google form, 24 candidates know that using smart air cooler boxes can give good customer feedback. The data survey was recorded in the table below. The data survey includes 6 questions. Each question ranks 1 to 5, which shows excellent to poor use of smart air coolers. Table 1 and Figure 3 show that students use smart air coolers. Smart air cooler boxes can give good feedback in preventing customers' daily problems. This smart air cooler box is simple and made of low-cost material. This invention may also help to reduce pollution in the environment. It will contribute to SDG13 climate change.