

ABSTRACT

Drying is a process used to drain the air used to drain the air flowing from a surface that is drained by a medium that is usually hot. This heat energy can usually be obtained from the sun. But after the rainy season, this condition inhibits something that is very influential on sunlight. For example in terms of drying clothes. Therefore it is a tool that can dry clothes without depending on sunlight. A drying machine is a machine used to drive artificial heat energy. An example that can produce heat is a heating element. The heating element used in this research is PTC heating element. This PTC heating element will heat the inner temperatures up to sixty to 50°C of heat generated PTC heating elements can convert the air contained in clothing into air vapor which will then be released into the environment with the help of a fan. Based on calculations and tests, the total total number of these machines is 817.8 Watt, the engine's ability to evaporate the average air mass of 557.03 grams / h with the drying room humidity drying room 30.06% and this machine reaches its optimum point for the amount 12 clothes storage clothes.

Keywords: Drying, clothes drying machine, PTC heating element, heating load