

## **Kaji Eksperimental Pendingin Air Minum dengan Volume 3 Liter Pada Sistem Refrigerasi Pada Temperatur 5°C / Parulian Siagian, Waldemar Naibaho, Meiman Jaya Harefa**

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### **Abstrak**

In this cooling process will be conducted research on drinking water, how long it will be cooled by the refrigerator, which is placed beside the bottom of the tube drinking water, to achieve a relatively low temperature and the amount of heat absorbed by the refrigerator of drinking water. All parts of the outer tube so that the hot water is isolated from the outside only a few enter into the drinking water, which amount will be calculated during the cooling process. In this cooling process, when the water has reached the specified conditions, the cooling machine will stop automatically. In this cooling process, the research methods that will be used is an experimental method, wherein the temperature of the water is the independent variable that will be determined later. And from these tests can be concluded that in the cooling process for 35 minutes obtained by the heat released from the drinking water is (105.84 kJ) and the added value gained heat into water (0,313 Watt) or (0.0869) Kj/h.