

## ABSTRACT

*Refrigerant in the cooling process of the refrigerator is chloroflourocarbon (CFC) release chlorine atoms that cause depletion of the ozone layer and the longer be perforated, so that ultraviolet radiation emitted by the sun damages ecosystems on Earth and cause diseases such as skin cancer. It is necessary for energy efficient cooling technology, environmentally friendly and does not use chemical compounds to reduce the depletion of the ozone layer with the principles of evaporation. The test results turned out to be the highest COP 2.973 occurred on the direction and speed of air flow that is 90<sup>0</sup> dan 3.4 m/s at room temperature, covered 28<sup>0</sup>C - 29<sup>0</sup>C in steady state into performance evaporative cooling is the most excellent*

*Keywords : evaporative, Coefficient Of Performance (COP) , evaporative cooling*