Disperser represent one of exploiting refrigeration system used to facilitate in getting amount of cold water easily, fastly, and efficient. With efficiency consideration, efektifitas, and more and more application of dispenser hence require to be done by a examination as a mean to know how far ability work system cooler of dispenser. Dispenser type used is Bottle Water Coolers with addition a cooler cupboard (refrigerator). cooling system of Dispenser use standart cycle of compressi vapour consisted of by one compressor, one condensor, capillary tube and two evaporator attached seri at cooled water tank and at refrigerator.

Examination early with appliance planning, buying of equipments and continued with assembling of dispenser. After assembling of dispenser have been done by examination and data intake. hereinafter done by data processing and calculation to get mass flow rate, fast expenditure kalor, fast inclusion kalor, COP, and last refrigeration of compressor. After got data result of examination, hereinafter done by solution and conclusion.

Result of calculation indicate that dispenser cooler system have price of mass flow rate, \( m = 0.001332 \text{ kg/s} \), fast expenditure kalor at condenser, \( \dot{Q}_c = 0.2504 \text{ kj/s} \), fast inclusion kalor at first evaporator (refrigerator), \( \dot{Q}_d = 0.1998 \text{ kj/s} \), fast inclusion kalor at second evaporator (water tank ), \( \dot{Q}_{e_2} = 0.0226 \text{ kj/s} \), coefficient of performance, COP = 1.78 Condensation temperature at condensor = 318°K, evaporation temperature at evaporator = 257 °K, hot super degree = 37 °K and secretory kalor time association of compressor, \( \dot{Q}_0 = 89,039 \text{ watt} \).

Key word : Dispenser, Refrigerator, Coefficient of Performance