ABSTRACT

System of Plambing is a part of inseparable of high storey building. system of Plambing utilized to provide cool water, hot water, pass dirty water and waste water without contaminating the parts of primal of building.

Planning of metropolis condomium is an dwelling building which compose 15 floor broadly total floor 1764,2 m2. Location this building is on Tenggilis Street in the Surabaya city. This plan use cool water supplied from PDAM surabaya which is accomodated in groundtank, then pumped to depository tank (rooftank). Cold water heated in the water heater where used a central system with electrical heater. Hot water accomodating in depository tank then distribute to go to plambing unit or location of appliance plambing needed hot water suplay with losing temperature matching with limited loss temperature setting. Hot water distribution system used gravitation with deviding it in ceilling building ( downfeed). To avoid happened losing a lot of temperature, we can sirculate the hot water back to water heater with sirculation pumps. so that expected by existing water tempeatraatur in distribution pipe is equal to existing temperature in depository tank of hot water.

To obtain the system work better and hot water quality to matching with standard of hot water used and also hot water temperatur result the same with hot water in distribution pipe. So that to balmy and security for consumer of hot water can be guaranteed with system mixing of hot water at appliance of plambing.

Keywords: Metropolis Apartment tower A and B, Surabaya, installation hot water, circulation, Central System