TEMPERATURE CONTROL ON BUILT DESIGN MINI PLANT HUMIDIFIER

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ABSTRACT

Controlling temperature on the design of humidifier works to conditioning room temperature in order to make thermal comfort for room. Material of fluid on the design of this humidifier is form of heat load which experienced in miniplant circulation so that the temperature should be controlled in it can provide thermal comfort. In this design used eight sensors humidifier LM 35 as measure of temperature. And in condition temperature is used fan AC which based microcontroller ATMega 8535. Temperatures from its eight sensors LM 35 displayed by LCD. This mini plant is conditioned at temperature between 35 ºC to 36.8 ºC, duration of the experiment for object is about 31 minutes. From the experiment results, an average temperature of the room reaches the set point (36.8 ºC) at minute 15 and temperature control by air conditioning fan is at 4-6 minutes.

Key Words: Humidifier, temperature, Fan AC, microcontroller.
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