



# Membrane Systems for Adsorption and Regeneration Cycle Problems in Air Drying Unit

*Temesgen Atafu*

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Bachelor Thesis from the year 2008 in the subject Engineering - Chemical Engineering, grade: A, Bahir Dar University (Engineering Faculty), course: Chemical Engineering, language: English, abstract: Abstract Main problem in air drying unit is the adsorption and regeneration time. In a dryer adsorption continues for eight hours, after which the desiccant becomes saturated and cannot adsorb further moisture. In this study different types of desiccants are used. Instead of silica gel, activated alumina, zeolite, molecular sieves, activated carbon were used. Membrane dryer are used to solve our regeneration problem. Therefore membrane air dryer is more optimum for commercial processes than the other different dryers. Membrane dryer can be used for 24 hours for one week, so there is no need to standby this equipment. The construction and operation cost of membrane dryer is too simple and can also be used in hazardous condition. Keywords: Adsorption time, Regeneration time, Activated carbon, Membrane dryer

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