

## ABSTRACT

**Satrio asih pamungkas, 50135039.T** "*Optimalization of treatment of Air Handling Unit to the comfort of room temperature accomodation of vessel MV. Hanjin Chiba*", Program Diploma IV, Teknika, Politeknik Ilmu Pelayaran Semarang, Supervising professor I H. Amad Narto, M.Pd, M.Mar.E and Supervising professor II Capt. Agus Subardi, M.Mar.

Air Handling Unit System or we often hear by name (AHU) has an important role to get around the temperature of the accommodation room on board. Broadly speaking Air Handling Unit (AHU) same function with Air Conditioner, used to set room temperature to feel more comfortable. But Air Handling Unit is definitely more economical than air conditioner (AC). That's why the running hour from the Air Handling Unit is higher than the Air Conditioner engine that is used to set the room temperature.

In descriptive writing method with urgency, seriously, growth tool is taken the highest assessment of priority and specific problem and from comparison of each problem.

There will be more problems with Air Handling Unit: Air filtering, Blower can not apply, regulator or lever of air damper can not function properly, leakage on air pipe and flexible connection, cooling medium and heating media do not circulate with Smoothly. Therefore, the operation and maintenance of Air Handling Units shall be in accordance with prescribed procedures, which are running running time and in accordance with the Instruction Manual Book. This treatment is planned and scheduled within a certain time period in a sustainable manner. Maintenance of the grinder, checking on. For cooling systems and. The Air Handling Unit will always be optimal so it can be damaged as early as possible.

The conclusion of this thesis states that the lack of maintenance of the installation and parts of the Air Handling Unit can cause fatal damage resulting in unstable temperatures in the ship's accommodation space, overheating or too cold and causing discomfort to be in Felt by all the crew.

**Keywords:** *Air Handling Unit, optimalization, maintenance*