

ABSTRACT

This research on Air Conditioning Systems Design is located at GORO-ASSALAAM WHOLESALE CENTER Surakarta. This company has a main building, distribution office, receiving office, and processing area.

This research in only focus to the main building of GORO-ASSALAAM WHOLESALE CENTER that is used for selling area, promo area, traditional market, and exhibition hall.

The Air Conditioning Systems which are used in the main building of GORO-ASSALAAM WHOLESALE CENTER is Air Cooled Split Duct. This systems is a conventional systems that is consist of Indoor Units and Outdoor Units. The heat discharge through the air. In these systems, the machine is controlled by Analog Thermostat that is used to stabilize the temperature in the room to be suitable with the setting of thermostat.

Each of Indoor Unit is completed with Evaporator, Fan with motor, Expansion Valve, and Thermostat. While Outdoor Unit is completed with Compressor, Condenser Fan, Condenser, High Pressure Switch, Low Pressure Switch, Control Box, and Valve.

The control systems used analog thermostat that is consist of auto/manual control panel and mimic panel.