

ABSTRACT

The diploma project made on 73 pages, includes 16 figures, 11 tables, 3 graphical parts made on sheets of A1 format and 1 addition.

The purpose of this work is to carry a design and research of electromechanical air conditioning system.

During this project realization were made: analytical review about existing types and species of air conditioning system. The functional scheme of supply air installation. Based on initial data were made calculation and induction motor selection and check of correctness that selection. Were studied possible algorithms of control and made research each of them. For making compare of investigable algorithms were made additional research after which were made conclusion about their energy efficiency and the most energy efficient algorithm was selected.

Was made a selection of frequency invertor. And made tune-up procedure for selected frequency invertor. Frequency invertor was tuned-up on typical mode operation.

AIR CONDITIONING SYSTEM, AIR HANDLING, CENTRIFUGAL FAN, PRODUCTIVITY, SCALAR CONTROL, INDIRECT FIELD ORIENTED CONTROL, FREQUENCY INVERTOR.

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					Electromechanical air conditioning system for office space Abstract			
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