

WINDOW AIR-CONDITIONING TUTOR

MODEL: RAC15



FEATURES

- Compact, sturdy and safe design
- Controls temperature, humidity and air movement
- Total instrumentation for complete heat balance

DESCRIPTION

An invaluable aid in the effective understanding of the air-conditioning process. The equipment is a comprehensive plant, which incorporates a window air-conditioner, flow meter, electronic control panel and loading arrangement. Temperature sensors at various points facilitate psychometric studies.

The trainer is designed to bring out the specific constructional features of a window air-conditioning system and to study the performance characteristics.

INSTRUCTION MANUAL

Self-explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual

LIST OF EXPERIMENT

1. Study of a typical window air-conditioning unit
2. Humidification and dehumidification
3. Heat balance at evaporator, condenser and the overall system
4. Determination of coefficient of performance
5. Plotting of different states of air on the psychometric chart
6. Study of air conditioning control using thermostat.

COMPONENTS

1. Window Air conditioning unit
2. Control chamber : Houses- sensors,
3. Electrical Heater to load the system
4. Humidifier: Steam generation by using electrical heater
5. Energy-meter
6. Temperature Indicator with sensors
7. Pressure gauges
8. H.P. / L.P cut out

OPTIONAL ADDITIONAL

1. Refrigeration components cut away model board.

Note: Details of attachments can be made available on request.

SERVICES REQUIRED

- Electric supply
- Water supply and drainage arrangement

NiYo Engineers

Unit 1B, Devgiri Industrial Estate, S. No. 17/1B Plot No. 14, Kothrud, Pune 411 029
INDIA, Tel-91 20 2546 5004, 2546 8051, 2546 7296 Telefax - 91 20 2546 8051
e-mail- sales@niyoindia.com Web: www.niyoindia.com



(1) Since research and development is an on-going activity, the specifications mentioned herein are subject to change without notice
(2) Photographs are indicative only