

## DATA ACQUISITION SYSTEM

MODEL: RAC28



### FEATURES

- Windows based system
- PC operated system
- Easy to use and low cost
- Direct flow measurement of refrigerant
- Study of refrigeration effect/process

### DESCRIPTION

This is a PC based system where various sensors are connected to the PC via an interface device.

System allows collection of data like temperature, flow rate and more <sup>NOTE1</sup>. The trainer consists of an interface device, transducers and personal computer (supplied only if asked for). The components are,

1. Signal conditioning units
2. Data acquisition hardware: The signals from the system are given to the data acquisition hardware.

*NOTE1: Depending on sensor purchased*

3. Application software: This is Windows based software. The driver software has been programmed specially student learning and acquisition data. It allows display of data of data in graphical as well as tabular form. Software is optimally designed for flexibility and performance.

### INSTRUCTION MANUAL

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

### COMPONENTS

1. Transducers – in any typical refrigeration system one measures the following parameters,
  - Pressure
  - Temperature
  - Power input to compressor
2. Interface device
3. Software

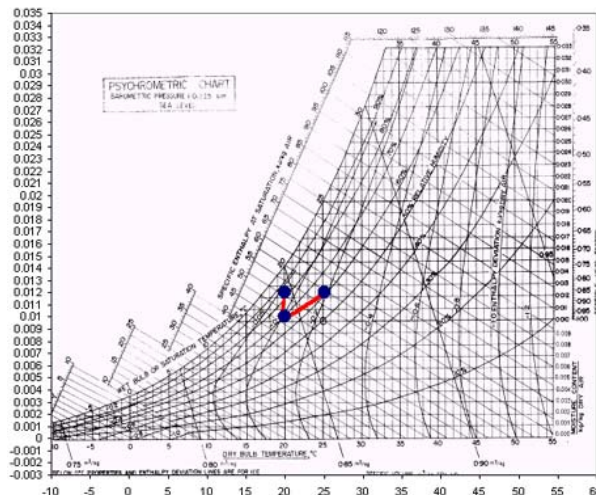
### OPTIONAL ADDITIONAL

1. IBM Compatible PC
2. RH Sensor transmitter
3. Power Transmitter (Additional)
4. Water/Refrigerant flow rate sensor transmitter
5. Air flow rate sensor transmitter

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

### SERVICES REQUIRED

- Electric supply



### 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](mailto:sales@niyoindia.com) Web: [www.niyoindia.com](http://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