Product Name :	**Product Code :**
Recirculating Air Conditioning Unit	EEZ0013

Technical Specification :

Specification:

- Comprehensive Air Conditioning teaching
  system, complete with initial heating stage, humidifier,
  chiller/dehumidifier, final heating stage, climatic chamber with window,
  return duct and adjustable recirculation.

- Transparent conditioning duct (200mm x 200 mm) for complete visibility of the process

- Computer controlled via USB interface,
  with complete educational software including data logging, graph

plotting with real time updates, mimic diagrams, data export

- Educational software, replicating the psychrometric chart calculations

- Six sets of Temperature and Relative Humidity measurements at the various stages of the process

- RH sensors come with calibration values which can be entered into the software for best accuracy

- Electronic flowmeters (2) measure the flow in each duct

- Measurement of refrigerant pressures, temperatures and flow

- Dual control of boiler setting with a fast heat up setting and a gentle setting for control

Features:

- Transparent Duct for full visibility of the process and the components

- Includes pre-heaters, humidifier, chiller/dehumidifier and reheaters

- Fully instrumented, with temperature and Relative Humidity sensors at every stage of the process, plus an air flow sensor.

- RH sensors calibrated for maximum accuracy.

- Suitable for both vocational training and for rigorous academic analysis of the thermodynamic principles involved

- Fully computer controlled with real time data logging of results.

- Capability of using PID control for preheat, humidity and reheat allows stable conditions to be set up for investigations.

Technical Details:

Item	Value
Duct Size	200mm x 200mm
Air speed	variable to > 1m/s
Preheaters	400W
Final Heaters	200W
Refrigerant	R134a
Boiler Power	2KW nominal
Chiller Power	500W nominal
Chamber Volume	230 Litre

Civil Mechanical India