Product name:	Product code:
Recirculating Air Conditioning Unit	EEZ0013



Technical specification

- 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 (RA3)	230 litre

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

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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