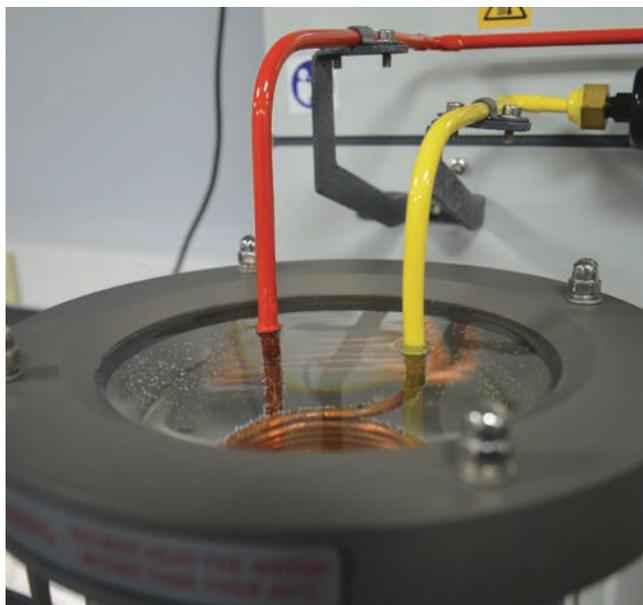




ENVIRONMENTAL CONTROL

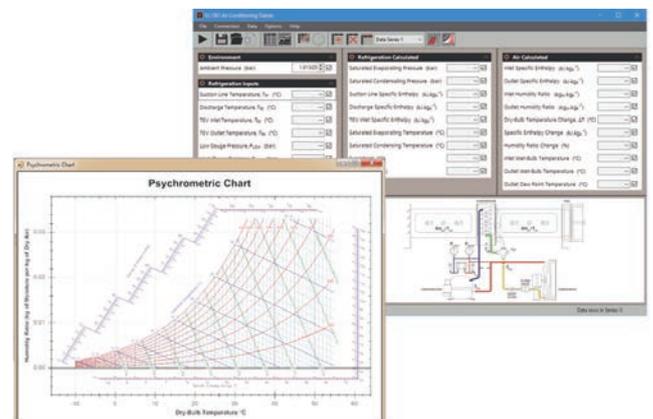
The Environmental Control range offers teaching equipment covering the fundamental theories associated with thermodynamics, fluid mechanics and heat transfer. This enables students to understand environmental control in the real industrial and consumer world. Experiments allow students to explore the workings of cooling towers, refrigeration, air conditioning and humidity, utilising psychrometric and P-h charts.

 **YouTube** ENVIRONMENTAL CONTROL PLAY LIST



FEATURES AND BENEFITS:

- **FUNDAMENTALS OF HVAC:** The range provides the capabilities to study the fundamental components of an HVAC course.
- **DATA ACQUISITION AS STANDARD:** Most products in the range come with TecEquipment's Versatile Data Acquisition System, offering high specification and great value.
- **INDUSTRIAL AND DOMESTIC:** With units covering air conditioning and cooling towers, students can study the elements of both industrial and domestic environmental control.



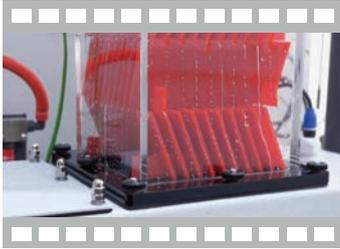
COOLING

COOLING TOWERS



EC1000V

Benchtop apparatus that demonstrates the operation characteristics of an evaporative cooling tower.



SHOWN WITH THE PACKING CHARACTERISTICS COLUMN



AVAILABLE COLUMNS:

- Cooling Column Type A
- Cooling Column Type B
- Empty Cooling Column
- Packing Characteristics Column

HUMIDITY

HUMIDITY MEASUREMENT

TE6

Benchtop apparatus that illustrates the principles of humidity measurement and compares various methods of measurement.



REFRIGERATION

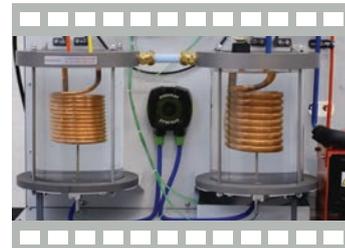


REFRIGERATION CYCLE



ECI500V

Benchtop apparatus that allows students to investigate and observe the stages of refrigeration, such as the coefficient of performance, superheat and subcooling.



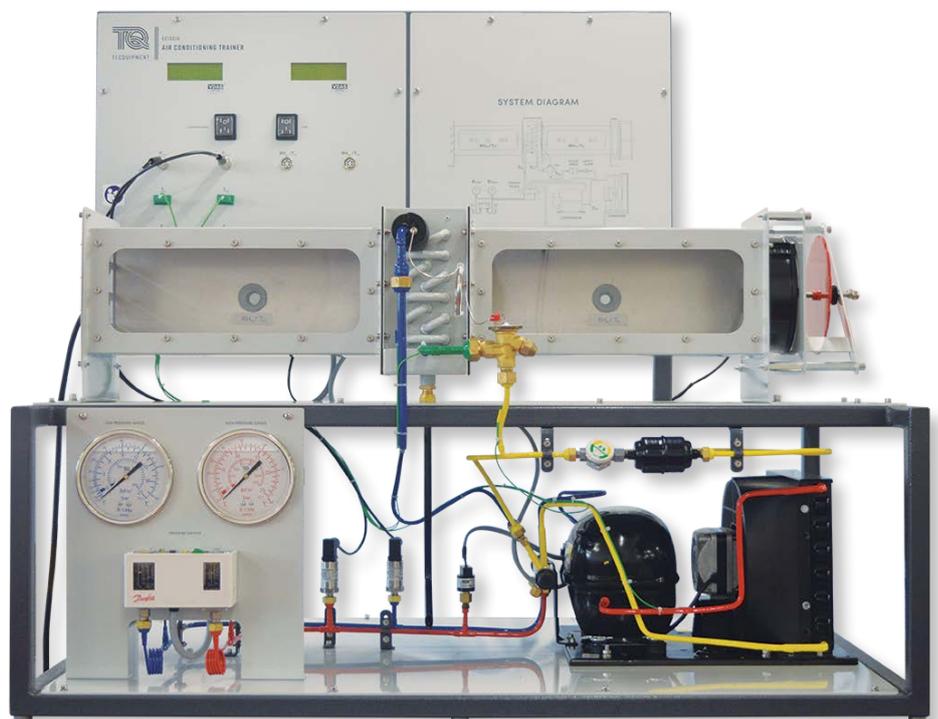
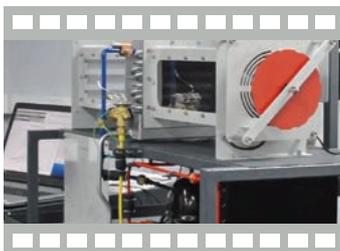
AIR CONDITIONING

AIR CONDITIONING TRAINER



ECI501V

Benchtop apparatus that allows students to investigate the fundamental principles of air conditioning, including enthalpy change in the air flow.

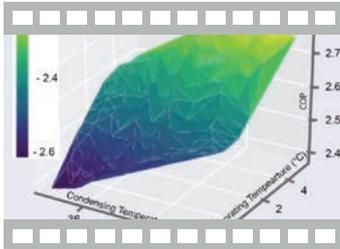


ADVANCED HVAC & R TRAINER



ECI550V

A versatile floor-standing apparatus for the in-depth study of heating, ventilation, air conditioning and refrigeration (HVAC & R) systems. Facilitates the analysis of individual and combined psychrometric processes commonly used in air conditioning. Also allows study of the vapour compression refrigeration cycle, including the use of pressure enthalpy (P-h) charts.



INSIDE THE AIR DUCT

RECIRCULATION DUCT

EC1550A

A recirculation duct can be fitted. Air flow through the recirculation unit can be varied via the manually controlled dampers allowing a wide range of experiments.

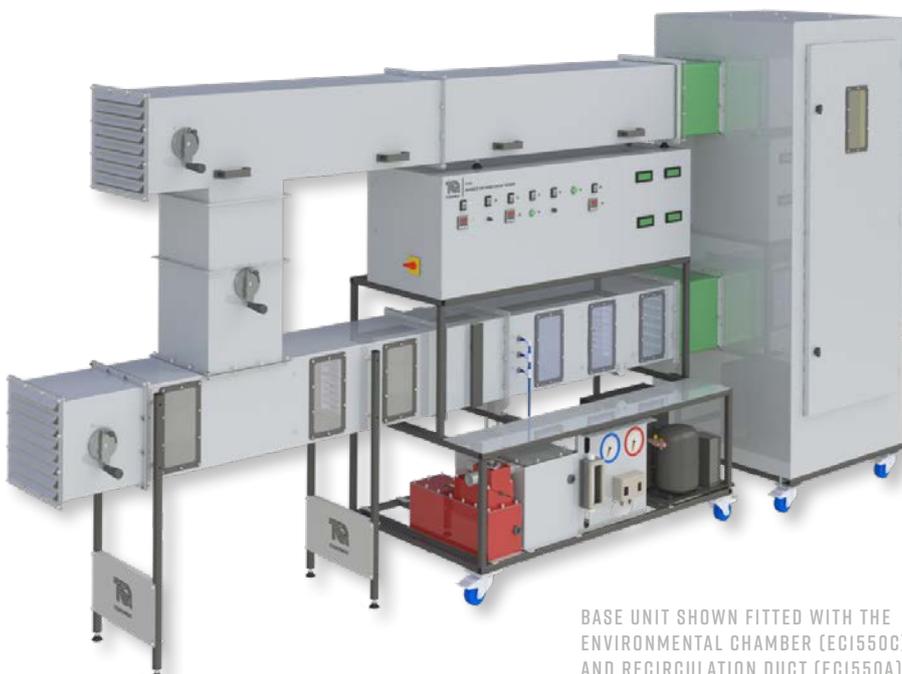


BASE UNIT (EC1550V)
SHOWN FITTED WITH THE
RECIRCULATION DUCT
(EC1550A)

ENVIRONMENTAL CHAMBER

EC1550C

Complimentary to the air duct, a 2 m³ environmental chamber can be used to mimic a room. This is designed to accommodate a student, allowing them to stand within an environment conditioned by the EC1550V. They can assess their comfort level and compare this with the calculated mean vote.



BASE UNIT SHOWN FITTED WITH THE
ENVIRONMENTAL CHAMBER (EC1550C)
AND RECIRCULATION DUCT (EC1550A)



