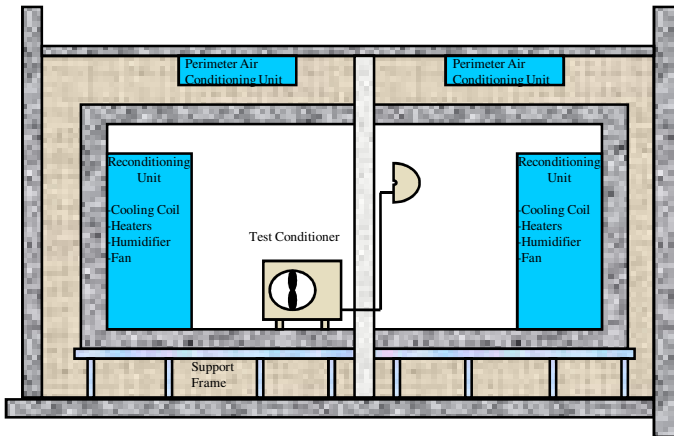


Balanced Ambient Calorimeter Rooms

The Calorimeter Room is an air conditioner test laboratory, located at the University of South Australia's Mawson Lakes Campus and boasts a balanced ambient calorimeter. The calorimeter was designed and built in accordance to the AS/NZS 1861-1976 standard. The design and operation of the calorimeter have since been kept up to date in response to progressive changes in the standard, including the current form of AS/NZS 3823 and the various subsections of this standard.

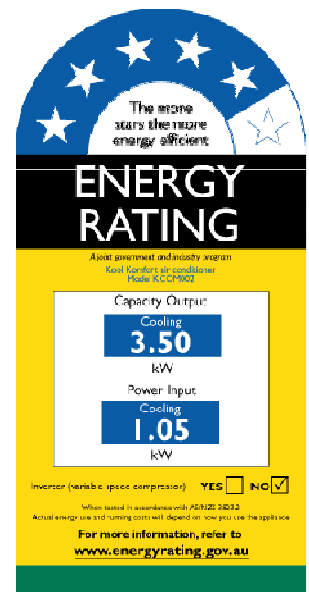
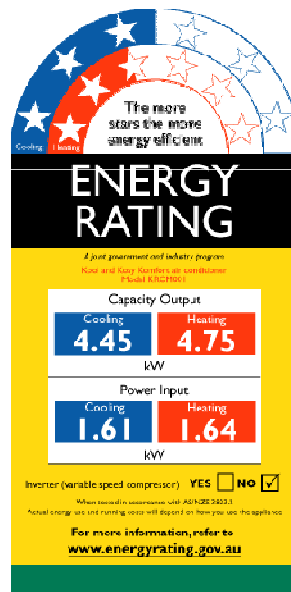


The facility has the ability to test air conditioning equipment with a cooling or heating capacity up to 12kW. Ambient temperatures within the calorimeter can be controlled to an accuracy of 0.1°C (dry and wet) within a temperature range of between -1°Cdb to +65°Cdb.

By enclosing the unit to be tested within a specially designed room, the facility enables direct measurement of the cooling and heating capacity of air conditioners. This facility does not simulate its results; it measures the actual thermal capacity of a real-life air conditioner in a realistic situation. For companies seeking a competitive edge in the marketing of their product, the ability to provide realistic data on the operation of the equipment represents a distinct advantage.

Areas of Research and Consulting

- Star Label testing
- Star Label check testing
- Supplier check testing
- Product development
- Dispute resolution
- Education and learning
- Thermal properties of ducting
- Testing of thermal systems
- Energy efficiency



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