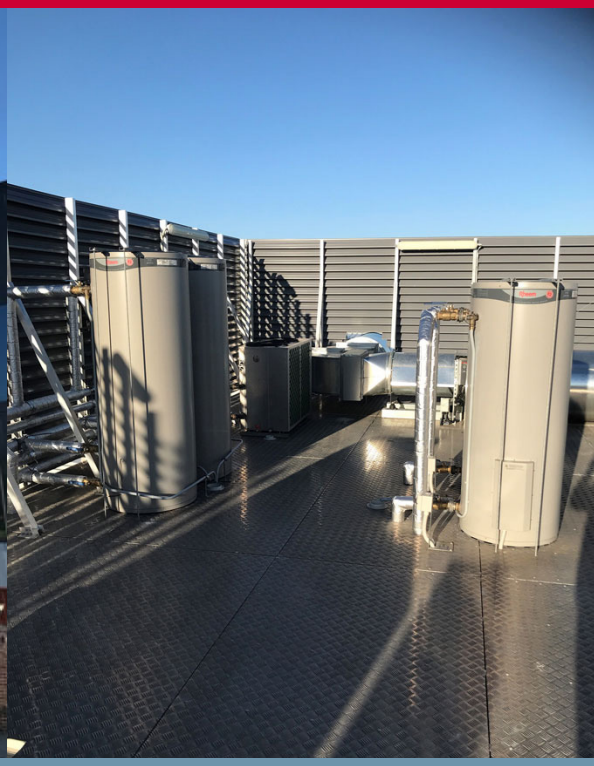
Install a Rheem®

COMMERCIAL
CASE STUDY



Rheem's Air-to-Water Heat Pump Enhances Morialta Secondary College

Morialta Secondary College, a new co-educational school in Adelaide's eastern suburbs, serves over 1,000 students with modern classrooms, sports facilities, and a café. Rheem partnered with Aurecon and Connekt Plumbing to install a high-efficiency Air-to-Water (A2W) Heat Pump system, ensuring reliable hot water delivery while supporting the college's sustainability goals and operational excellence.

THE CHALLENGE

The college needed a reliable hot water system to service diverse facilities while aligning with its sustainability goals. Key challenges included:

- Ensuring consistent hot water supply across multiple buildings with varying demand.
- Achieving high energy efficiency to reduce costs and environmental impact.
- Operating effectively in Adelaide's variable climate.
- Complying with strict environmental and building regulations.

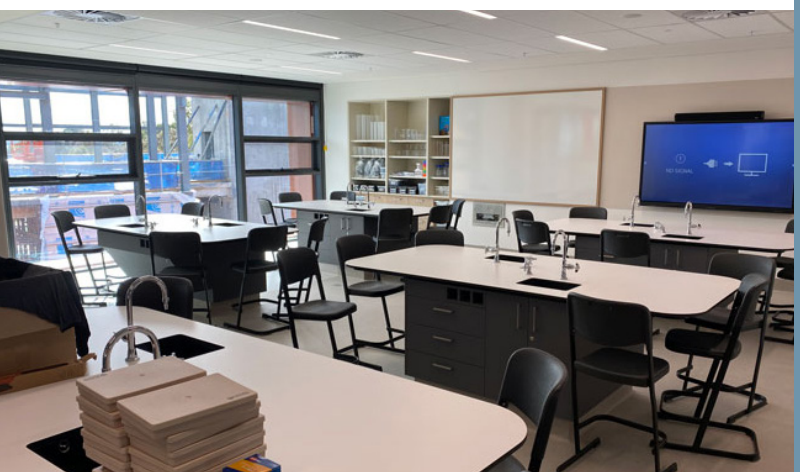
THE SOLUTION

Rheem provided a tailored solution featuring:

- **YF Series A2W Heat Pumps:** Multiple units installed to deliver hot water at up to 65°C with a high Coefficient of Performance (COP) of 4.0.
- **Low-GWP Refrigerant:** Use of R1234yf refrigerant with a Global Warming Potential of <1, enhancing sustainability.
- **Compact Design:** Non-ducted heat pumps installed to optimise space in plant rooms.
- **Collaborative Installation:** Worked with Aurecon and Connekt Plumbing to ensure compliance with Australian Standards (AS/NZS 3500) and seamless integration with existing infrastructure.

THE KIT

- 3 x Air to Water (A2W) 16kW Commercial Heat Pump – model 95301600 (Non-Ducted)
- 5 x Rheem Storage Tanks 410L – model 610430
- 5 x Rheem Heavy Duty Electric Water Heater – 315L with 3 Elements
- 1 x Rheem Heavy Duty Electric Water Heater – 50L
- 3 x Redi-Set DLX



THE IMPACT

The system delivered significant benefits:

- **Reliability:** Provided consistent hot water for learning spaces, sports facilities, and the café, meeting peak demand.
- **Energy Efficiency:** Achieved up to 40% energy savings compared to traditional systems, reducing operational costs.
- **Sustainability:** Ultra-low GWP refrigerant and high COP minimised environmental impact, supporting the college's green objectives.
- **Space Optimisation:** Compact heat pumps freed up valuable plant room space.
- **Regulatory Compliance:** Met all environmental and building standards, ensuring long-term operational success.

This project highlighted Rheem's ability to deliver sustainable, efficient, and reliable hot water solutions, enhancing Morialta Secondary College's innovative and eco-friendly learning environment.

CONTACT THE RHEEM COMMERCIAL TEAM TODAY

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