



Install
a Rheem®

COMMERCIAL CASE STUDY



Rheem Introduces YF Series to Iconic Sydney Office Tower

Nestled in the vibrant Sydney CBD, this iconic premier office tower is dedicated to sustainability and exceptional tenant amenities. To enhance its end-of-trip (EOT) facilities, the building required a modern, eco-friendly hot water system. This project marked the first Australian installation of the Rheem Commercial YF Series Heat Pump, setting a new standard for sustainable commercial buildings while reducing operational costs.

THE CHALLENGE

The tower's upgraded EOT facilities, featuring 22 showers and 12 basins, demanded a high-efficiency hot water system that could:

- Replace the existing heating plant with a sustainable, fully electric solution.
- Maintain the building's 5.5 Star NABERS energy rating.
- Minimise long-term operational costs through energy efficiency.
- Support the building's commitment to reducing environmental impact.

THE SOLUTION

Rheem Commercial partnered with Floth, an engineering consultancy, and Mr Water Plumbing to design and install a state-of-the-art hot water system featuring the Rheem Commercial Air-to-Water (A2W) 30kW YF Series Heat Pump. This innovative solution was tailored to meet the tower's sustainability and performance objectives.

Key features of the system include:

Energy Efficiency: The YF Series A2W heat pumps achieve an average Coefficient of Performance (COP) of 4.28 for the 30kW model, reducing energy consumption and operational costs.

Low Environmental Impact: Utilising R1234yf refrigerant with an ultra-low Global Warming Potential (GWP) of less than 1, the system minimises environmental impact.

Seamless Integration: The system integrates with the Building Management System (BMS), providing real-time performance monitoring for optimal operation.

Reliability: The heat pumps ensure a consistent hot water supply for the EOT facilities, meeting tenant needs even during peak demand.

THE IMPLEMENTATION

Rheem Commercial collaborated with Floth to design a comprehensive plan, ensuring the system met the building's sustainability goals. Mr Water Plumbing expertly installed the YF Series A2W heat pumps, integrating them seamlessly with the BMS for enhanced control and efficiency.

THE IMPACT

The Rheem YF Series A2W heat pump system has transformed the Sydney CBD tower into a model of sustainability, maintaining its 5.5 Star NABERS energy rating. This pioneering installation reduces operational costs, supports eco-friendly goals with low-GWP refrigerant, and ensures reliable hot water for tenants. The project sets a benchmark for sustainable commercial buildings across Australia.

This initiative demonstrates how innovative technology and expert collaboration can deliver high-efficiency, environmentally conscious solutions for modern office spaces.

THE KIT

- 2 x YF Series Air to Water (A2W) 30kW Commercial Heat Pump – Non Ducted
- 2 x Grundfos CM 10-1 Primary Circulators
- 3 x Rheem Tank 1000N9ALU Stainless Steel Storage Tanks
- 1 x Rheem Redi-set Deluxe UPS20-60N

CONTACT THE RHEEM COMMERCIAL TEAM TODAY

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