

REVOLUTIONISING SUSTAINABLE CLIMATE CONTROL

THE KXZ3 VRF SYSTEM BY MHIAA

As sustainability, efficiency and design integration become increasingly critical in commercial projects, mechanical solutions must go beyond temperature control — they must enhance building performance, help achieve environmental ratings, and fit seamlessly into architectural intent.



Mitsubishi Heavy Industries Air-Conditioners Australia (MHIAA) has achieved exactly that with the KXZ3 series of R32 VRF system — a next-generation air conditioning solution designed for future-focused developments.

What is the KXZ3 VRF System?

The KXZ3 series VRF (Variable Refrigerant Flow) Systems is Mitsubishi Heavy Industries' most advanced commercial air conditioning platform solution to date. Built on cutting-edge engineering, it utilises R32 refrigerant, making it one of the first large-scale VRF systems in Australia to adopt this more sustainable refrigerant alternative.

The system is designed to serve diverse commercial applications—from mid to high-rise offices to multi-residential developments, healthcare, retail and education projects—offering high performance with minimal environmental impact.

Key Features and Benefits

Low GWP R32 Refrigerant

R32 refrigerant offers a Global Warming Potential (GWP) of 675, which is approximately two-thirds lower than R410A, positioning it as a future-proof choice ahead of evolving refrigerant regulations.

Optimised Coefficient of Performance (COP)

The KXZ3 series delivers outstanding COP values across a wide operating range, contributing to lower energy consumption.

Wider Operating Range

Suitable for any climate, it delivers reliable performance in temperatures from -25°C up to 52°C.

Energy-Saving Inverter Technology

Advanced inverter compressor technology dynamically adjusts performance to match demand, reducing operational costs.

Quiet and Compact

Ideal for urban developments with acoustic limitations, the KXZ3 series is engineered for quiet operation and optimised space efficiency.

Understanding NABERS – Why Ratings Matter

The NABERS (National Australian Built Environment Rating System) is a government-backed initiative that measures the environmental impact of buildings based on energy, water, waste and indoor environment quality.

As mandatory energy performance disclosure (CBD program) is expanding to more buildings, NABERS is becoming an increasingly important benchmark for developers, asset owners, and tenants, supporting compliance frameworks and informing lease negotiations.

Higher NABERS ratings not only improve building's marketability but also support ESG reporting and green financing opportunities.

How KXZ3 Helps Improve NABERS Performance

By combining R32 refrigerant, new compressor technology and high COP outputs, the KXZ3 series helps reduce total building energy consumption — a key driver for achieving higher NABERS ratings.

KXZ3 supports NABERS-driven outcomes through:

- Lower emissions from high-efficiency operation.
- Improved part-load performance, better aligning with real-world usage.
- VTCC+ : A precise capacity control system that optimises the system output based on indoor load and pre-selected eco level (Low, Medium, High, U-high).
- Integration with centralised building management systems for optimisation.

In short, the KXZ3 series is not just cooling air — it's directly contributing to measurable sustainability outcomes.

Compact, Modern Design

Modern developments demand mechanical solutions that support the architectural narrative rather than disrupt it.

The KXZ3 series features a sleek, compact unit profile designed to blend seamlessly into rooftops and plant areas without visual bulk. Its space-saving footprint enables more creative freedom for designers and reduces construction complexity.

Award-Winning Engineering Excellence

Only months after its Australian launch, the KXZ3 series was honoured with the Australian Good Design Award for Engineering Design, recognising its innovation across sustainability, performance and technical refinement.

This accolade reinforces the system's industry leadership and builds confidence for specifiers seeking proven, future-ready solutions.

A VRF System Built for the Future of Construction

With the KXZ3 series, MHIAA has set a new benchmark for climate control in commercial developments, combining sustainability credentials, engineering intelligence and architectural versatility.

Whether the goal is compliance, carbon reduction or premium building performance, the KXZ3 series is designed to take projects further — from the design stage to operational excellence.

KXZ3



To learn more or explore how the KXZ3 can help future projects meet performance and NABERS targets, visit: www.mhiaa.com.au