

DROPPING IN FROM ABOVE

When it comes to the installation of large, heavy equipment on a significant development – particularly large air-conditioning units on a roof, this is not a simple, every day task.

It inevitably requires extensive coordination, including transporting equipment to site, which can mean road closures and obtaining the required permits to close roads. Once the equipment is delivered to the site, a crane is required to lift the equipment onto the roof. These requirements alone can often lead to down times.

Contractor PTAC was awarded for the full design and construct of the air-conditioning system for the Bunnings Kingsgrove, they are also responsible for coordinating products on-site delivery, on-time for the helicopter lift to ensure no resources or time was wasted. As a supplier of the KX series for this job, Mitsubishi Heavy Industries Air-Conditioners Australia (MHIAA) liaised with PTAC meticulously to ensure the KX series was delivered in-full and on-time for the helicopter lift.

“The use of a helicopter allowed for multiple drop points on the roof for the various items required. Besides the air-conditioning systems, fans and platforms were also lifted,” MHIAA’s Ross Ayden explains.

“Using the helicopter eliminated road closures and the added down times of relocating and resetting the crane. The helicopter drop also provided greater flexibility for the installer teams and less impact on the local environment.”

In arranging the helicopter drop, an application to Civil Aviation Safety Authority (CASA) for air space permits was required. Notification to police and local residents was also required prior to the day of the drop.

“As part of the CASA permit, a ‘ditch point’ was required in case of engine failure and such,” adds Ross. “Given proximity of residents and the freeway, this was solved by clearing the store’s carpark area.”

MHIAA was thrilled to be part of this project and worked tirelessly and determinedly to ensure MHIAA provided PTAC the right system required for this specific job. “The satisfying result was that all equipment was in place ready for the contractors in quick time with no interruptions to the local traffic or residents,” Ross says.

“MHIAA’s head office is only a stone’s throw from this building, so we watched the progress of its construction with a keen interest and desire to be on the roof!”

Ross adds that the contractor PTAC have had many construct and design projects experienced like this job and MHIAA is confident that the KX series (VRF) system is the best solution for the Bunnings Kingsgrove site requirements. “The operating conditions, connection capacity, flexibility and extensive pipe options (of the equipment) suited the format required to temper the air in the building to the design criteria,” he says.

A wholly owned subsidiary of Mitsubishi Heavy Industries Ltd, MHIAA was formed in 2009 following extensive growth of Mitsubishi Heavy Industries’ air-conditioners, which first entered the market in the 1970s.



Q-ton – New to MHIAA

Further demonstrating the company’s commitment to solutions, the MHIAA team has launched the Q-ton, an air-to-water heat pump which uses carbon dioxide gas as a refrigerant.

Combining rotary and scroll technology (making it the world’s first two-stage compressor), the Q-ton can be used across a variety of applications for the supply of sanitary hot water – from medium to large demands. This includes commercial buildings such as hotels, apartment blocks, hospitals, care homes and more.

This innovative and unique air source heat pump allows for maximum efficiency and low electricity consumption. Via the user-friendly touch-screen panel, the system can be set up to meet specific requirements and monitor hot water production and availability.

Q-ton’s use of safe and highly-efficient carbon dioxide (a natural gas), is environmentally friendly compared to other products using standard refrigerants. It also meets the stringent requirements of the world’s foremost environmental assessment method and rating system BREEAM.

The Q-ton is an example of MHIAA’s continual commitment to superior technology that outlasts and outperforms.

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