

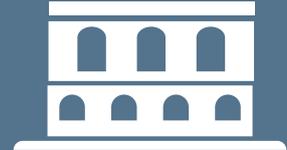
ebm-papst Universal Gateway for AHUs

GreenTech EC centrifugal fan + DEOS controls



Aquatic Center

- 15 air-handling units (AHU)
- ebm-papst Universal Gateway
- DEOS Controls System



Project



Aqualink is an aquatic center operated by the City of Whitehorse in the Melbourne suburb of Box Hill. It sits adjacent to the Surrey Dive, originally a deep water hole that became the first Olympic standard pool in Australia in the early 1900s. The original Aqualink Box Hill, built in the late 1970s, was redeveloped in 2012-13. The new Aqualink Box Hill, double the size of the old building, opened in December 2013.

The facility has set a new standard for aquatic and leisure facilities in Australia. From its leading-edge environmentally-sustainable design features to its spacious and flexible aquatic and dry area facilities, it has become one of the most modern and innovative centres in the country.

The facilities include 6 pools, a 700m² gym, various fitness rooms (groups classes), a three-court stadium and a soccer and tennis court.

Installation



15 GJ Walker air-handling units with ebm-papst EC RadiPac fans were installed during a major refurbishment in 2014.

The AHU fans are controlled using a DEOS COSMOS control system by DSV Australia. The ebm-papst Universal Gateway ECGK-CTO is used to enable direct communication between the BACnet-based DEOS system and the EC fans with integrated MODBUS-RTU.

Benefits



The ebm-papst Universal Gateway enables communication between MODBUS fans and other protocols used in a building management system, e.g. BACnet. One of its distinct advantages is its high level interface access to all AHU fans, meaning that every fan can be monitored and controlled independently. This also enables closed-loop pressure control and monitoring of all fans in real time.

This is especially important because precise control of the fan performance is crucial for the DEOS system to achieve best energy performance and climate control.

EC fan upgrades can help you reduce your power bills by upgrading your existing fans with high efficiency alternatives to all your existing fan products. We use the skills and expertise of key partners and integrators and combine them with ebm-papst high-efficiency fans and motors.