Superior Control Solutions

Case Study:
St Francis Xavier College

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St Francis Xavier College in Florey was built in 1974, consisting of multiple AHU units featuring HHW coils and outside air economy cycles and controlled via analogue controls.

In early 2012 we were engaged to bring the HVAC control system into a user friendly and energy efficient system.

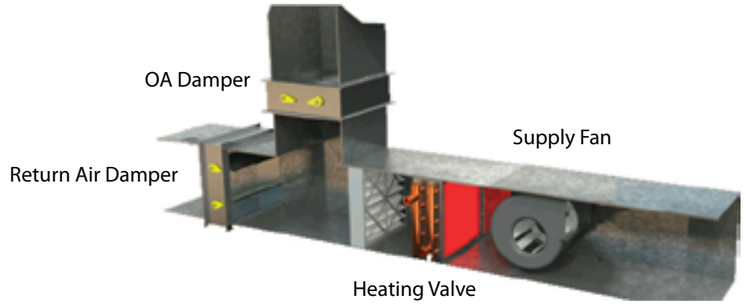
Throughout a short program all of the analogue controls were removed and replaced with American Auto Matrix NB ASCe fan coil controllers as well as 3 switchboards with energy monitoring.

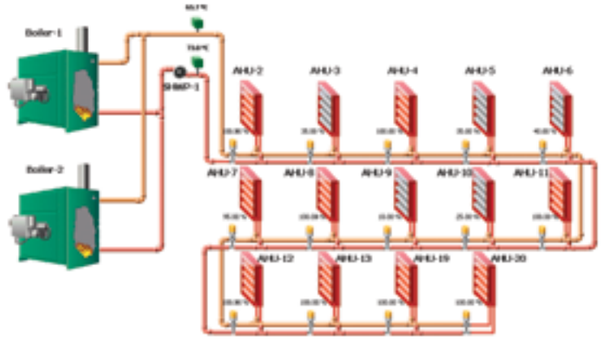
A virtual server was installed into existing schools IT infrastructure providing a link between all controllers and the virtual server which host AX Supervisor software giving the occupants and service technician's remote access to monitor the HVAC equipment.

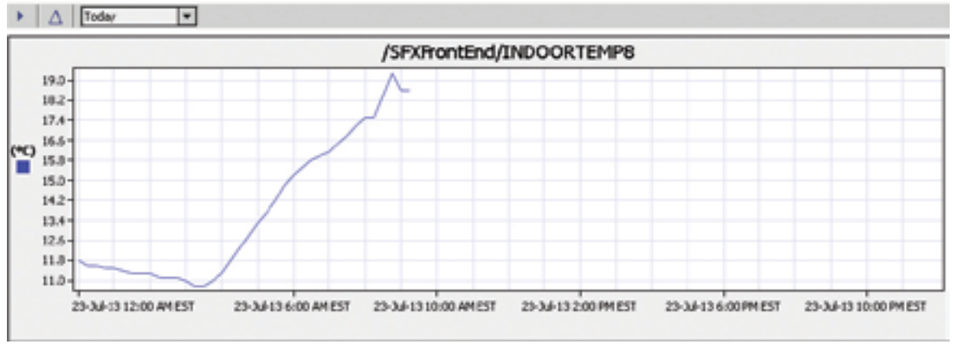
Due to the service and design provided to serve the school we were immediately engaged to take over control of the HVAC control of a newer building in which the existing BMS controls were causing increasing headaches.

In 2013 the senior hub building was built further expanding the existing BMS on the schools infrastructure.






The 3 distinct buildings comprises of many different types of heat and cooling solutions including; HHW AHUs, Boilers, Pumps, hydronic inslab heating, radiators, natural ventilation and DX air conditioning.

Recently we were engaged by the school to check the entire HVAC installation as many areas have been refurbished but not designed or commission correctly.
We offered HVAC surveying and air balancing services to bring the schools services in line with their current design and maximize the efficiency of the system.

The hybrid Tridium/American Automatrix solutions provided not only an easy user interface but a system that can be constantly tuned to maximise the efficiency of all plant.

The St Francis Xavier site has proven that our control solutions are infinitely expandable and also backwards compatible meaning that any further works or buildings can be easily integrated.

Currently the site has 1 x Jace 2 network controller, 22 x NB-ASCe fan coil controllers, 16 x Easy IO DDC controllers, 1 x FG-LCD display and 3 x electrical energy meters.

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