



Location

New Brighton, Wirral

Client

Mitie Engineering

Project at a glance

Heating and Cooling Vent

Trend Embedded Graphics

Control panels built in house

Commissioned by BTS

Systems

Trend BMS with onboard graphics

Biomass Wood Pellet Boiler

Chillers

Heating and Cooling AHUs

Utility Monitoring

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In 2008 the Floral Pavilion was rebuilt as part of an exciting regeneration programme for 'Brand New Brighton'. Situated on the New Brighton water front, the theatre showcases big names such as Ken Dodd and Ricky Tomlinson, as well as feature show performances.

The building heating system includes an eco friendly bio-mass wood pellet boiler which is considered carbon neutral. The bio mass boiler is enabled as the lead boiler then the two standby gas boilers are enabled only when the system is in high demand.

Ventilation is provided by 5 air handling units feeding the Auditorium, Foyer, Panoramic Lounge, Function Rooms, VIP lounge, Kitchen and Dressing Rooms. Supply and Extract speeds are modulated to maintain CO2 levels in the space.

Utility meter readings are recorded by the BMS for display on reception IQ view display. The BMS controllers have been engineered to include embedded graphics meaning any computer on the building network with internet explorer can view meter readings as well as interrogate all systems to monitor status', alter individual area setpoints, or programme standard week time zones and one off event exclusions.

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Member of
BACnet
International



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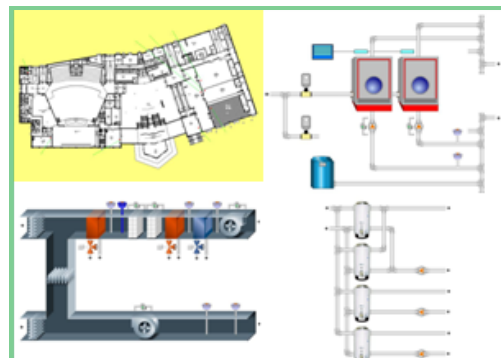
Control system overview

- Trend IQ3 network controllers
- Reception IQ View Network Display
- Individual panel mounted SDU display

Special control features

AHU fan speeds modulated to maintain space CO2 levels.

AHU recuperator dampers opened to reclaim heat from the space, when available, before heating coils opened.



Function room and VIP areas isolated by local damper actuators so that areas not heated/cooled when not in use as set via reception display or PC on building network.

Energy conservation strategies

- Bio mass wood pellet boiler leads with standby gas boilers enabled only in high demand.
- All water, electricity, gas, and tenant heat meters logged by the BMS.
- Trend BMS utilises optimised time schedules so that plant enabled only as required to maximise economy.