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CONTROLS

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CASE STUDY

Inverurie Community Campus

Project Brief

McDermid Controls have completed the installation of natural ventilation system controls at the new community campus in Inverurie on behalf of Aberdeenshire Council.

The £55 million campus is home to Inverurie Academy and St Andrew's School, as well as a community sports centre and leisure facilities. The facilities will include a six-lane swimming pool, games area and outdoor pitches. Importantly, the campus will provide a range of amenities for the wider communities of Inverurie, Garioch and beyond whilst also accommodating the school.

Our Solution

In order to optimise the internal environment for staff, pupils and the community, natural ventilation was installed which utilises clean, fresh air from outside in combination with an automated ventilation system.

For this project, a total of 4 control panels were installed in 4 zones. BMS sensors regulate the dampers and eco-fans on the roof turrets to maintain comfortable levels of temperature and Co2 set on the BMS. Each zone has local manual control to switch the natural ventilation on and off when required. A weather station was also installed to protect the roof turrets from high winds and rain. Should any of these weather conditions occur the BMS will turn off the fans and close the dampers.

The entire system is controlled using Priva Blue ID- BACNET open protocol platform.

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