

Timaru Technical Education Centre

Scope of Work

The Timaru Technical Education Centre has been set up to provide extracurricular education to primary schools in Timaru.

- It provides Metal and Wood workshops, an electronics workshop, a structures workshop and a food workshop.
- McAlpine Hussmann provided heating, air conditioning and ventilation to the centre's workshops, as well as to the design planning room and administration block.



Engineering Features

- Eleven reverse cycle inverter split system heat pumps have been installed in all the rooms except the Metal and Wood Workshops, which have dust extraction and fresh air makeup systems installed.
- Natural ventilation is provided via high level motorised electric windows located above the Atrium in the Design Planning Room, and distributed via air transfer grilles. The motorised electric windows are controlled by a BMS.
- A dedicated weather station has been installed on the roof of the building to provide information to the BMS on wind direction, wind speed and outside temperature, thus controlling the operation of the window actuators.

Project Highlights

- The challenging design concept make this project a “one of a kind” especially in terms of the BMS-controlled motorised electric windows.
- A multi-discipline installation with various specialised systems and control.