

CHRISTCHURCH BOYS' HIGH SCHOOL

CHRISTCHURCH, NZ

EDUCATION

OVERVIEW

Established in 1881, the prime purpose of Christchurch Boys' High School was to prepare students for enrolment into the then newly formed Canterbury College, now known as the University of Canterbury. Often referred to as CBHS, the school is a single-sex, state, secondary school situated on a 12-hectare (30-acre) site, 4 kilometres (2.5 mi) to the west of central Christchurch in New Zealand. The iconic heritage building provides boarding facilities for 130 boys in a residence called Adams House. The institution has a rich sporting and academic history and boasts many traditions, as well as being able to lay claim to several famous cricketers.

PROJECT DETAILS

In 2017 Reliable Controls® Authorized Dealer, IES Group Ltd. successfully completed the electrical / controls for the mechanical package in the new hall. The same year IES Group helped complete the new Energy Centre with heating generated by 3 gas-fired condensing boilers and distributed by variable speed controlled hot water pumps.

In 2019 the new construction of the Straven Decant building included a variable refrigerant flow (VRF) air conditioning system with a high-level interface to allow integration with the MACH-System. The network architecture consisted of a MACH-ProWebSys™, two MACH-ProSys™, two MACH-ProView™, and two MACH-ProZone™ controllers. The graphical user interface allows the building management to view and operate the institution.

IES Group installed mechanical equipment which included two 4-pipe recovery air handling units (AHUs), a boiler system with a VRF, an air-change unit with duct heaters, and smoke exhaust / spill fans.

Due to the simplicity of the MACH-System graphical interface and the relationship developed with the school, IES Group was able to secure the BMS contract. Reliable Controls and IES Group Ltd. are pleased to have been a part of this project and the opportunity to work in such an extraordinary building.

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PROJECT TYPE:

New Construction

TOTAL AREA:

1,500 m² (16,146 ft²)

INSTALLATION TYPE:

Boiler, Chiller, CO2 Monitoring, HVAC, Smoke

EQUIPMENT INSTALLED:

2 MACH-ProSys™
 2 MACH-ProView™
 1 MACH-ProWebSys™
 2 MACH-ProZone™

NETWORK:

EIA-485, Ethernet, B/VPN

PROTOCOL:

BACnet®, SMTP, Proprietary Gateway

BACNET:

Carrier chiller, Daikin gateway

POINTS:

80

RELIABLE CONTROLS® DEALER:

IES Group Ltd.

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