

Southern Cross Surgical Centre, Wellington

Scope of Work

The existing Southern Cross Surgical Centre in Newtown has recently been extended. The new facility houses a new Intensive Care Unit, a Recovery Ward and an Operating Theatre.

In addition the existing Recovery Unit, the CSSD and the Packing Units have been extended as well.



Engineering Features

McAlpine Hussmann was engaged to supply, install and commission:

- 2x 212kW Trane CGAH Scroll Chillers
- 1x 600kW Boiler
- Associated CHW and LTHW reticulation pipework systems
- 4x Variable Air Volume Air Handlers and associated ducting
- A Variable Refrigerant flow air-conditioning and various ventilation systems.
- A fully automated open protocol web-based building management system.
- Reticulated medical gases systems including Medical Oxygen, Nitrous Oxide, CO₂, Surgical Air and Anaesthetic Gas Scavenging System.

Project Highlights

- Total cooling capacity: 425kW
- Total heating capacity: 600kW
- Total air moved by the AHUs: 6620L./s
- Total other ventilation: 6500L/s
- Reticulated Medgas pipework 1900m