

SUSTAINABLE HVAC SOLUTIONS

Originally established in England in 1816, Haden, a Norfolk Group company, is proudly celebrating its 40th year of trading in Australia. Haden's specialised mechanical engineering has been relied on for many major iconic buildings including their first major project in 1969—The Sydney Opera House, as well as the National Museum in Canberra in 2001.

Haden's airport expertise has evolved through many years of experience in major projects at many of Australia's busiest airports including Canberra Airport Brindabella Centre, Qantas Domestic Terminal Sydney and Terminal B, Canberra International Terminal, as well as baggage handling facilities at various terminals.

One of Australia's largest mechanical engineering companies, Haden has over 1100 employees situated in over 37 branches nationwide, spread across their mechanical services design, construction and maintenance teams. This includes Greenstar accredited professionals and engineers who are members of Engineers Australia.

Haden specialises in the design, construction, installation and maintenance of 'Whole of life' mechanical engineering solutions, applying Ecologically Sustainable Design (ESD) principles. Within airports, this includes expertise in heating, air conditioning, lighting, ventilation, security, utilities, access and the many airport systems needed to operate a modern airport, while assisting airports in their environmental goals as stated in the aviation industry's International Declaration on Climate Change.

Haden's approach enables them to plan, design and construct mechanical services specifically for the unique applications of airport requirements, where 24 hour, 365 days a year operation is required. These activities are supported by excellence in design and construction of terminal buildings, hangars, control rooms and all other airport administration and service areas.

Haden's engineering team take a collaborative approach to the design phase of projects, by either undertaking the design brief or actively working with the design consultants at each stage to maximise the energy and cost efficiency of the installation. This is particularly important in achieving predictability of output in respect of cost, time, quality and safety.

In addition to being able to tender individual mechanical works in the traditional manner, Haden Engineering is in the unique position through its sister Norfolk Group companies of being able to provide to its clients a true multi service approach to the delivery of mechanical, electrical, plumbing and fire engineering services during construction and on going



maintenance. This affords Haden the opportunity to allow the smooth and seamless operations on a multi facet project.

The Cairns airport project involved the redevelopment of the two level domestic terminal and new departures area with ticketing and baggage handling facilities and the Qantas lounge. It has been developed in three stages. The scope of Mechanical Services for the Domestic Terminal Redevelopment includes the additional plant upgrading in the Central Services Building as well as chilled water air conditioning systems located in three separate plant rooms; mechanical ventilation systems; smoke spill systems; air conditioning and ventilation to the "fixed links" to the aeroplanes; and, interface with the Building Management System. All of the equipment used in this job was selected for its ability to improve energy efficiency.

The tropical weather of far north Queensland presented a challenge for Haden as the channels and ground works for installing the 150m of underground mains to pipe the chilled water to the domestic terminal kept filling up with water and delaying progress. However, the Haden team continued to meet their targets.

An added challenge presented to Haden was the security issues of working "airside" and the safety of people movement. Working in conjunction with Hansen Yuncken many tasks were undertaken over night with the terminal re-established to pristine condition for trading the following day.

Providing air conditioning in the tropics is of major importance and Haden had to ensure that the new air conditioning system was completed to the extent that comfortable conditions were maintained within the terminal, so the existing air conditioning could be made redundant to make way for further works.

Having worked on a number of projects with Hansen Yuncken over the years, including the Prince of Wales Hospital and Sydney Domestic Terminal 2, Haden's aligned values and commitment to quality and safe work practices have helped them to develop a great rapport with each project team.

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