



STAREAST
INTERNATIONAL

CAPABILITY STATEMENT





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Capability

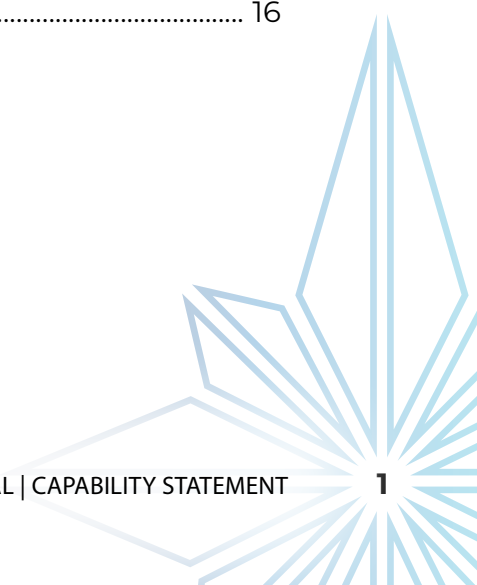
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ABOUT US

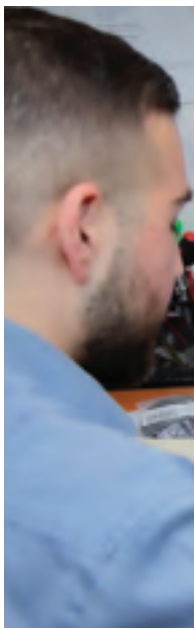


Our founder
Norm Nowfal

Stareast has operated as a specialist designer, manufacturer and supplier of heating, ventilation, air conditioning and refrigeration (HVAC&R) equipment and appliance industries for more than 50 years.

Stareast is an Australian-owned business with a global reputation for quality that services commercial, industrial and residential markets. Stareast strives to use our world-class expertise to deliver engineered solutions and production services that save our clients time and money.

- Wholesale solutions for trade
- Engineered Solutions - including the design, manufacture and supply of refrigeration units and spare parts
- Mechanical Service Sub Board (MSSB) - including the design, manufacture, assembly and spare parts
- Supply of refrigerants and specialty gases
- Quality trade tools and equipment
- Quality appliance spare parts and equipment
- A Service Centre with dedicated specialist ready to provide warranty assessments, products, tools, equipment and spare
- Mechanical Consultants – apartments, carparks, aged care, educational facilities, food service facilities

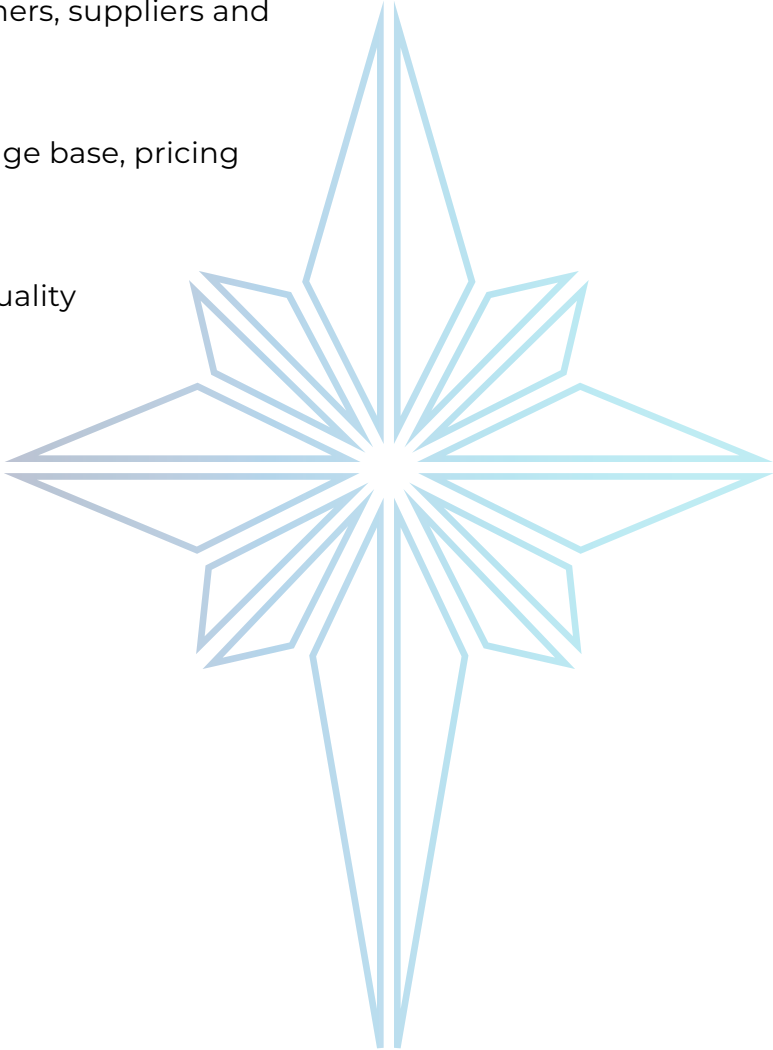


CORE PURPOSE

- **Economic and Sustainable HVAC&R** – for the benefit of all

CORE VALUES

- **Teamwork** – working as a team, for the benefit of all
- **Commitment** – we commit to customers, suppliers and each other for the common goal
- **Consistency** – in our service, knowledge base, pricing and procedures
- **Focus** on innovative, market driven quality products for the benefit of all



STAREAST - DISCOVER THE



- **Expertise that gives you the difference** – Our knowledgeable engineers and highly experienced staff will help you find a solution, so you receive the correct products and technical guidance.
- **People to power your next project** – Access our products and solutions powered by our Australian and international network, for your next project.
- **Powered partnerships** – Collaborate with us to create customisable parts and equipment to meet your exact needs.
- **Transparency for new opportunities** – Our powerhouse product information and technical data is available 24/7 through our online website.

STAREAST - A STAR AMONGST THE STARS

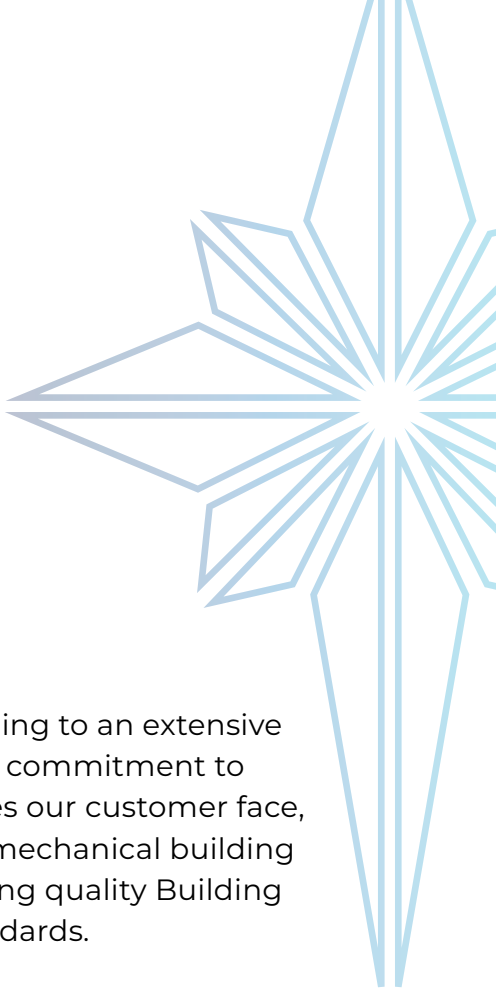
At Stareast, continuous improvement and knowledge are key to providing quality expertise and service.

The Stareast team comprises some of the brightest minds in the HVAC&R industry, and we have access to consultants who guide our knowledge, operations and goals. With a combined total experience exceeding 100 years, Stareast has a solid foundation that allows us to partner with customers to assist your business and deliver world-class solutions.

We pride ourselves on our ability to deliver simplicity in solutions inspiring our customers to achieve growth whilst building stronger, longer partnerships.



DIFFERENCE



QUALIFIED EXPERTISE TO EMPOWER YOUR BUSINESS

Engineering Director

Our Engineering Director has operated for over 25 years leading to an extensive knowledge in the HVAC&R industry. A strong work ethic and commitment to further education to meet the dynamic regulatory challenges our customer face, to deliver your company's engineering requirements in the mechanical building services, refrigeration and air-conditioning solutions. Providing quality Building Code of Australia consultation to meet AS1668 and NCC standards.

HVAC&R Engineering Consultant

An AIRAH Hall Of Fame recipient who has contributed to the HVAC-R industry in many ways for over 50 years. One of the highlights of an outstanding career is his delivery of HVAC&R education for over 20 years. Experience drives our solutions for our customers.

HVAC&R Engineers

Highly experienced, professional, and degree qualified engineers to deliver the right advice for your commercial, industrial and residential projects. We use the latest computer aided design software for refrigeration and air conditioning load estimation, including AutoCAD drafting, and have the knowledge and attention to detail to deliver on your building or refrigeration design requirements.

Let our professional engineers assist and deliver a service of the highest quality complete with Australian Standards and NCC compliant certified drawings for all building classes.

Mechanical Electrical

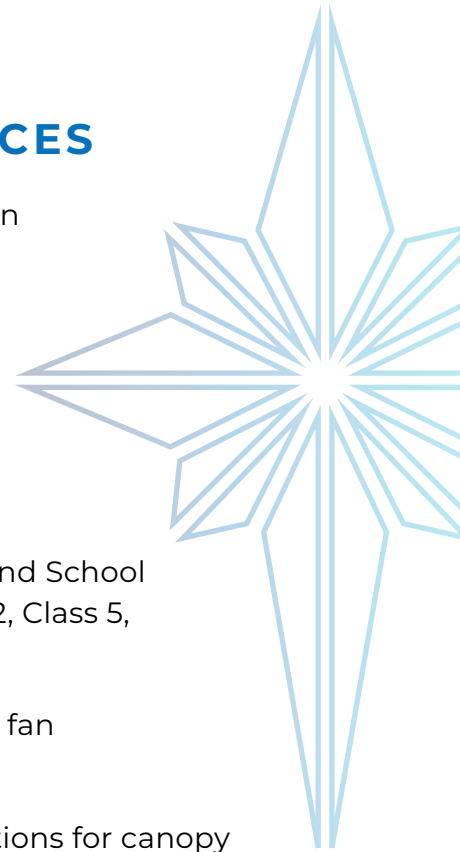
Experience in the electrical industry for over 20 years specialising in Mechanical Services Sub Boards (MSSB). Delivering expertise in programmed logic controls, electrical AutoCAD drawings, manufacturing, and assembly of boards compliant with AS/NZS 61439. The right advice and expertise to provide a full solution for your next project.



EXPERIENCED FOCUS AND

ENGINEERING AND BUILDING SERVICES

- Mechanical Engineering spatials, calculation and certification
- Mechanical consultants for carpark ventilation
- Refrigeration heat loads and thermodynamics
- Consultant for AS/NZS1668 1, 2 & 4
- AutoCAD drafting solutions for buildings (Class 2 to Class 9)
- Experienced mechanical solutions for Aged Care (Class 9c) and School Facilities (Class 9b) in addition to mixed development Class 2, Class 5, Class 6 and Class 7a
- Fail safe hot water flue system discharge, MSSB and exhaust fan interlock solutions
- Commercial kitchen engineering and drafting, offering solutions for canopy fans exhaust systems
- Economy cycle control, temperature control and programmable logic control (PLC) solutions. MOD BUS, CAN BUS, BACNET NSTP/IP, VSD Programming
- Commercial fabric duct air conditioning solutions. CAD Design for duct sock solutions
- Testo Equipment Training and temperature monitoring services
- Design, manufacture and supply of commercial refrigeration solutions built for Australian conditions
- Assembly of mechanical services sub boards (MSSB) built to AS61439
- Engineered and retrofit solutions for complex refrigeration and air conditioning end of life cycle systems complete with spare part replacements
- Condensing units and evaporator coils design



SOLUTIONS

WHOLESALE SOLUTIONS FOR TRADE

- Refrigeration and air conditioning trade tools, spares and equipment
- Supply of parts for mechanical services sub boards (MSSB) to meet AS61439
- Powered Partnerships with Premium Brands – Testo – Black Diamond – Actron Air, Supercool – Emerson Copeland channel partner – Evco Control, Capro Aero-Flux, Envirotronics HVAC
- Specialty refrigerants R404a, R410a, R134a, R32, R600a, R290
- Distributor of Durkeesox commercial fabric air conditioning ducting
- CDU designed and built for Australian conditions
- Domestic refrigeration, freezers, ovens and heating spares
- Refrigerant Reclaim Australia (RRA) certified refrigerant reclaim depot
- Supply and manufacture of commercial and industrial water chillers, condensing units and evaporator coils



CAPABILITY

Mechanical Services Sub Board - Toongabbie NSW

Quality in design & sustainability, our engineers are here to deliver your solution in Mechanical Services Sub Board (MSSB) just like this one installed at Toongabbie NSW.

Stareast was tasked with manufacturing a switchboard designed by the mechanical services building consultant and built to the specifications and switchboard schedule provided by the builder of an Aged Care construction project.

Our expert team delivered a custom designed power distribution and control switchboard to comply to AS61439 and IP65 rating to withstand the toughest of Australian weather conditions. Our MSSB also complied with the consultants requirement that specified a future capacity allowance of 20%.

The board was built to run:

- 30 x VRF Condensers
- 169 x VRF Indoor Fan Coil Units
- 3 x A/C Split Condenser Units
- 11 x Exhaust Fans
- 1 x Laundry Exhaust Fan
- 5 x Kitchen Exhaust Fans
- 17 x Outside Air Fans
- 3 x Toilet Exhaust Fans
- 1 x Solar Inverter Fan

The building management system was supplied by the onsite electrical contractor.

Let Stareast empower your business with quality and sustainable designs, products and expertise.





CAPABILITY

Mechanical Services Design - Belmore NSW

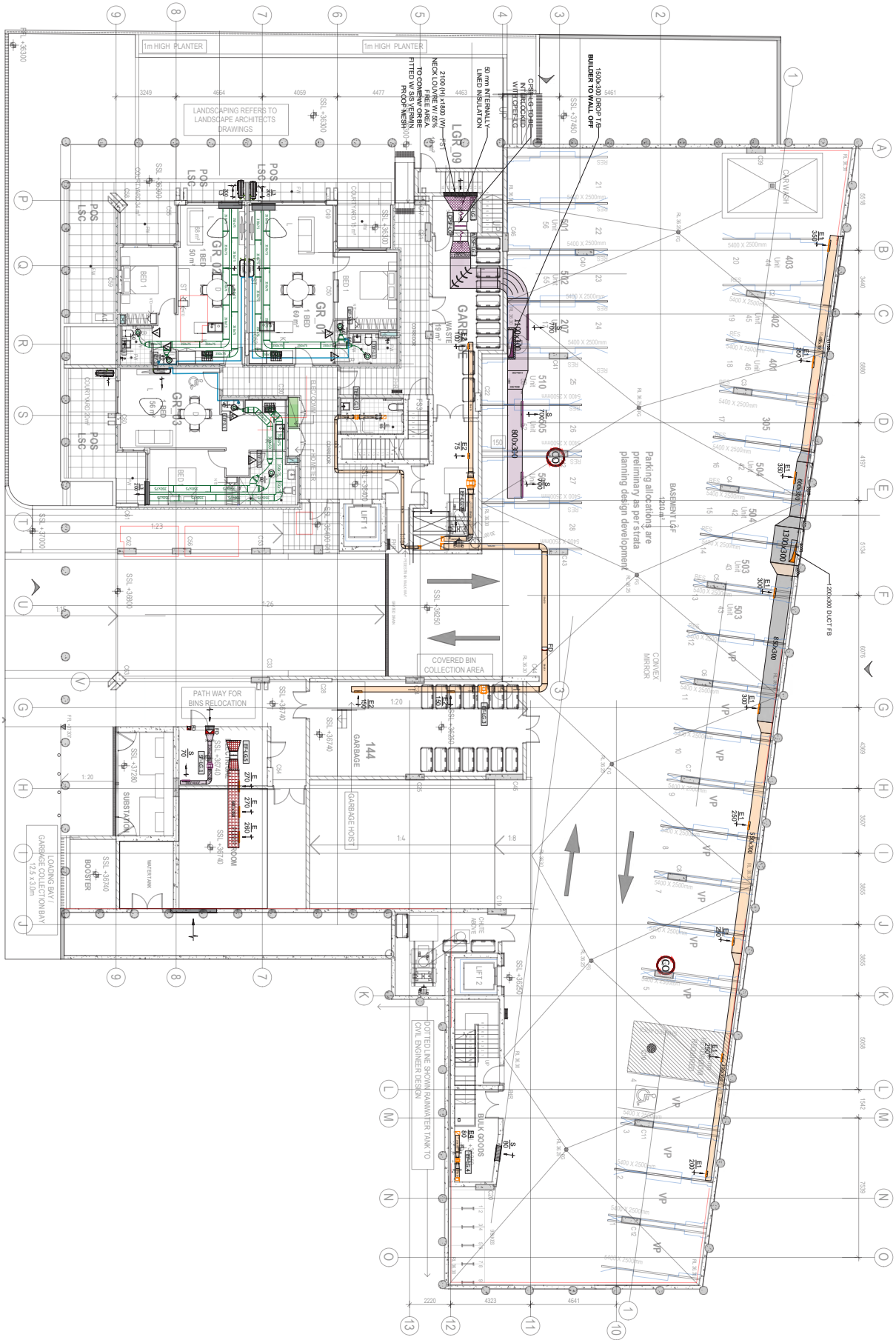
Quality in design & sustainability, our engineers are here to deliver your solution in Mechanical Services Design complete with certified mechanical drawings using AutoCAD and equipment schedules.

Stareast was tasked with designing an NCC and AS 1668.2 compliant mechanical services ventilation solution for a Class 2 - 60 Residential Apartments and Class 7a - 60 space Two level carpark with bin collection rooms, diesel pump room, electrical room and storage rooms, which is to be developed in Belmore NSW.

Our expert team powered meticulously through the calculations required to determine the exhaust and make up air requirements for the spatials to ensure even distribution of airflow throughout each area of the apartments, common areas, and reduction of carbon monoxide concentration to safe levels throughout the carpark spaces.

Our team also completed sizing and selection for ducts, fittings, fan, louvre, register and grille to meet NCC and AS 1668.2 requirements.

Consistent co-ordination with the developer, builder and architect throughout this process ensured Stareast was able to deliver an efficient, acoustic and performing solution for our client.



CAPABILITY

Refrigeration Design - Yagoona NSW

Quality in design & sustainability, our engineers are here to deliver your solution in Refrigeration Design.

Stareast was approached to provide a solution to service the cold room needs of a supermarket located in Yagoona NSW. The design required a solution for a retail freezer display and storage area, retail dairy display and storage area, and a produce cool room.

Our specialised engineers had to consider the following critical factors:

- Air infiltration to the display areas from frequent opening of 8 glass doors by the supermarket customers
- Icing of condensate on the floor between freezer and produce storage areas which would cause a workplace health and safety hazard
- Air infiltration from the freezer room's sliding door to the produce area which could cause icing on the evaporator coils in the produce cool room
- The customer had existing 100mm EPS wall panel thickness for the freezer room and did not want to insulate to the industry standard of 150mm EPS
- Temperature of product load at entry point
- Temperature during storage
- Product load, product type, pulldown times, ambient conditions and pipe runs

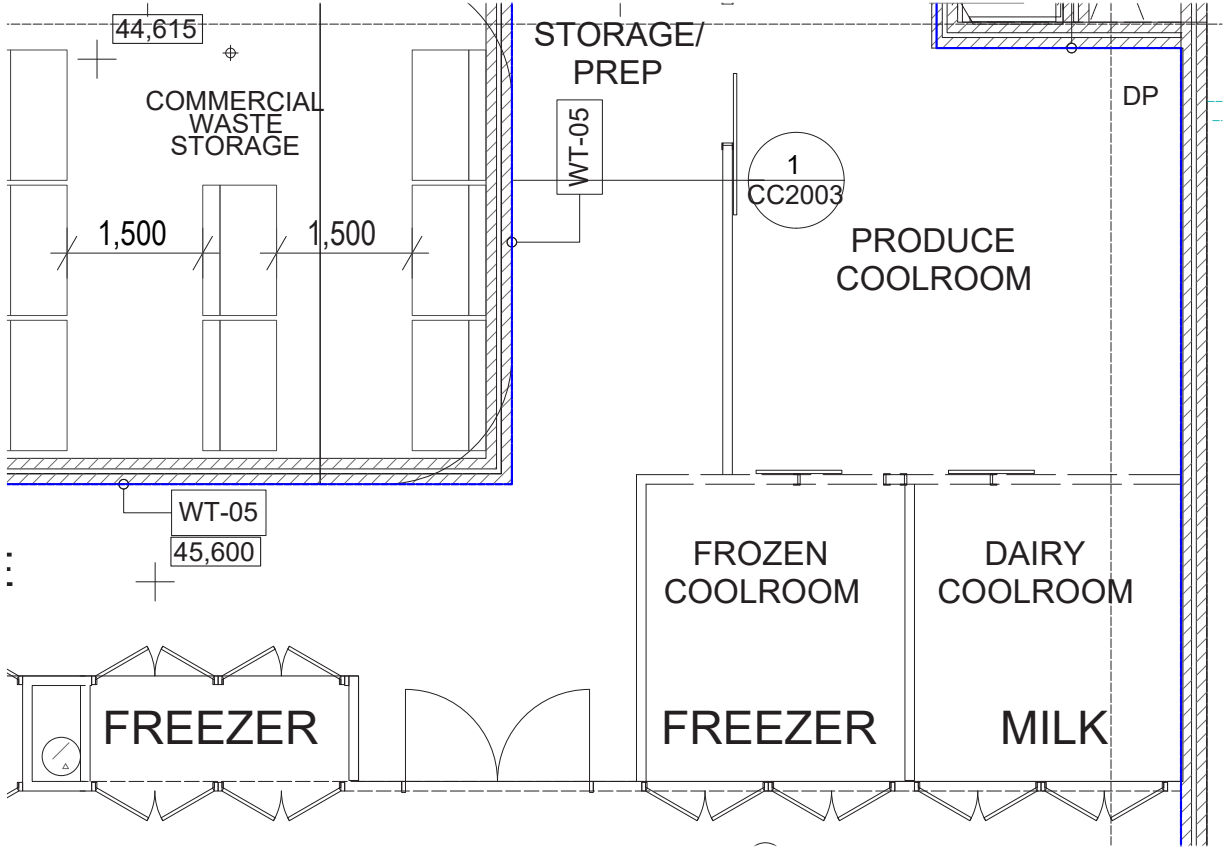
Through knowledge and experience, our Stareast engineers identified the relative humidity and temperature conditions specific to the products being stored in each cold room.

Combined with the factors listed above, our specialised team were able to determine accurate heat loads which are required to size and select the appropriate refrigeration system components for each cold room.

The custom designed solution included selections of condensing units, evaporator units, PVC heaters as well as ancillaries such as solenoid valves, copper piping, TX valves, orifice, p-traps and system controllers.

Our production team achieved a fast turnaround for all components including installation of solenoid valves, TX Valves and P-Traps that saved the installers time and money.

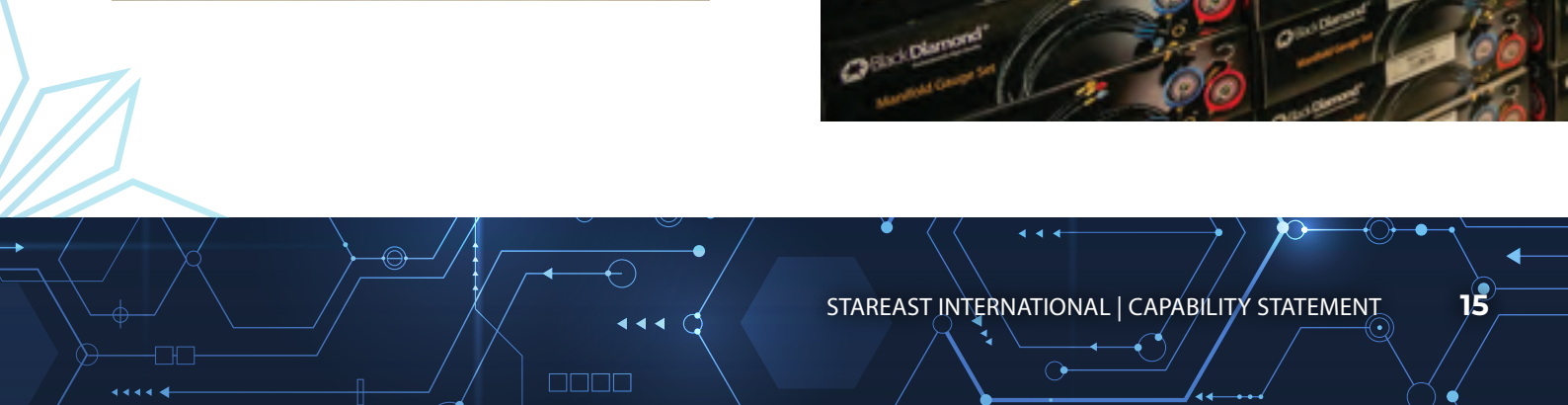
Stareast condensing units are designed to withstand the harshest of Australian conditions custom built in our Padstow NSW centre with quality components for sustainable operation.



OUR BRANDS AND BRAND



PARTNERS



LICENCING AND MEMBERSHIPS

Airconditioning, Refrigeration Contractor
Licence 376892C

Airconditioning, Refrigeration Contractor Supervisor
Licence 190784C

ARCTick Authorisation Number: AU08299

Refrigerant Handling Licences

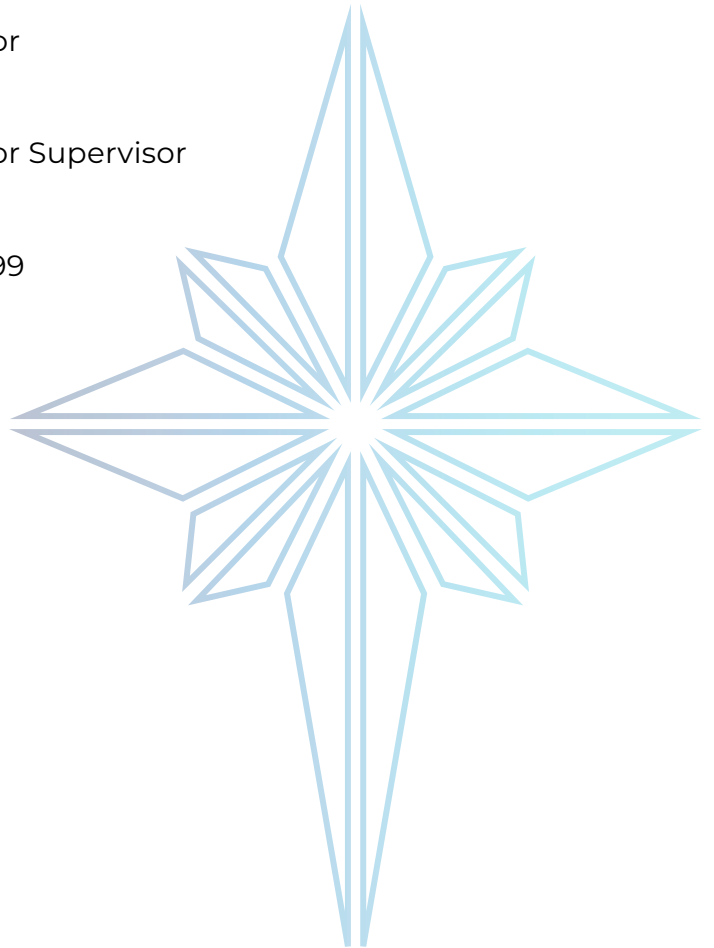
AICIS Registered NIC515017

Engineers Australia Memberships

AIRAH Membership

AMCA Industry Member

ARMA Membership







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