



*Heating, Ventilation, Air-conditioning & Refrigeration Specialists*

## CAPABILITY STATEMENT

# Our Business

Oceania Engineering Services are specialist providers of Heating, Ventilation and Air-conditioning (HVAC) and Refrigeration equipment along with the associated maintenance and service. From break down callouts, spare parts or turn key solutions, Oceania caters for all things HVAC and Refrigeration. We provide specialised solutions to the Marine, Offshore, Resource and Energy Industries.



# No Problems – Just Solutions

With a highly competent and motivated team, Oceania prides itself in providing timely, cost effective engineered solutions for our clients. From Conceptual design through to Commissioning, we provide quality service by working closely with our clients to not only deliver on, but exceed their expectations.



# On Call

Oceania Engineering Services have a team of dedicated, highly qualified technicians who can be dispatched 24/7, 365 days of the year. All technicians hold relevant offshore survival and medical certificates (TBOSIET, HUET) and maritime security clearances (MSIC).



# Our Clients



# HVAC&R Spare Parts

- Original Equipment Manufacturer (OEM) equipment spare parts
- Air treatment and sanitisation products
- Custom fabricated components
- Hazardous Area certified components
- Large base supplier network (Australia and Overseas)
- Procurement services and global freight logistics
- Various packaging options to meet client's requirements



# OEM & Custom Equipment

- **Original Equipment Manufacturer (OEM) equipment supply**
- **Custom fabricated equipment**
- **Hazardous and Non-Hazardous rated**
- **Various materials of construction**
- **Packaged equipment or stand alone**
- **Integrated controls**
- **Flexible design to meet client requirements**
- **Equipment supply includes:-**
  - **Packaged Chillers (Water and Air Cooled)**
  - **Air Handling Units**
  - **Air Cooled Condensing Units**
  - **Provisions Refrigeration Systems**
  - **Chilled Water Pumps and Ancillaries**
  - **Ventilation Fans**
  - **Fire Dampers**
  - **Manual and Automatic Dampers**
  - **Galley equipment and outfitting**
  - **Air Treatment products**
  - **Duct Work, Intake and Exhaust Louvers**
  - **Galley and Laundry equipment**



# Installation, Commissioning & Service

- Scheduled Maintenance
- Breakdown Callouts
- Site Surveys
- Maintenance Programming / Schedules
- Equipment Installation
- Refrigeration pipework installation
- R22 Refrigerant upgrades and refurbishment
- Electrical installation
- PLC / Controls installation & troubleshooting
- Pre-Commissioning & Commissioning
- Specialised HVAC test equipment hire
- Hazardous Area inspections and Installation
- Comprehensive equipment reporting
- Factory Acceptance Testing
- Galley, laundry & general duct cleaning

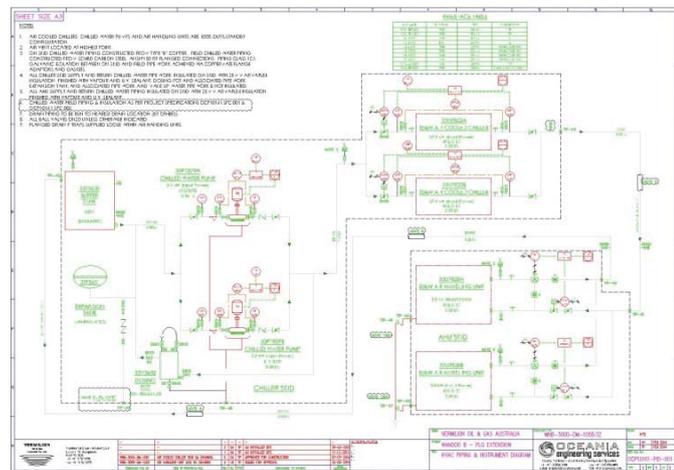
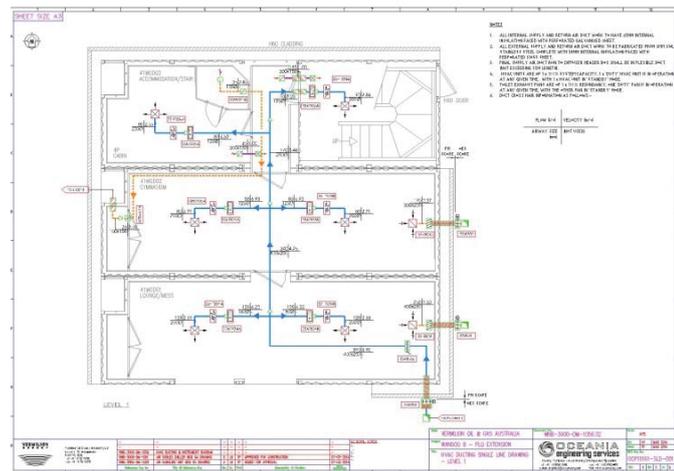
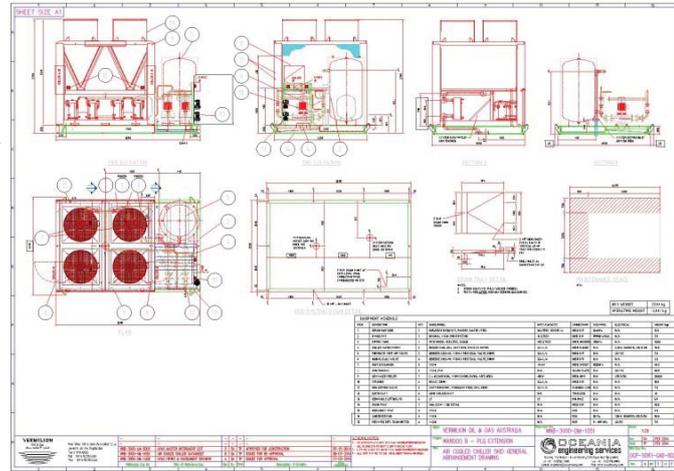
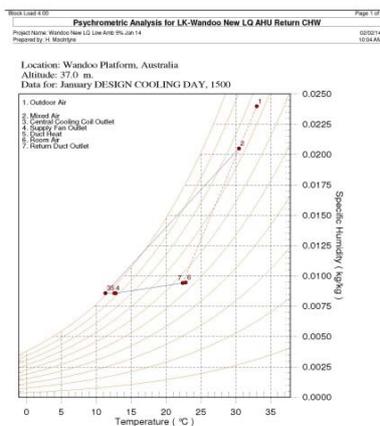


# Engineering & Drafting

- System Heating and Cooling Load Calculations (Carrier E20)
- Design Reviews
- Conceptual Design / FEED Services
- Detailed Design Engineering – Mechanical, Electrical, Instrument, Refrigeration
- Detailed Design Drawings - Mechanical, Electrical, Instrument, Refrigeration
- HVAC&R system documentation and datasheets
- Pre-Commissioning / Commissioning procedures
- Factory Acceptance Testing
- Project Management and Engineering Services
- PLC Design and Programming



Air System Sizing Summary for VAV Rooftop System						
Air System Information		VAV Rooftop System	Number of zones: 7			
Air System Type:		VAV	Floor Area: 6993.0 m <sup>2</sup>			
Sizing Calculation Information		Method: Manual J	Location: St. Louis (AP, Missouri)			
Cooling Coil Sizing Data		Total coil load: 113.3 Tons Total coil load: 397.2 kW Coil surface: 116.0 m <sup>2</sup> Coil surface: 1250.0 ft <sup>2</sup> Sensible heat ratio: 0.800 Area per unit load: 0.621 m <sup>2</sup> /ton Load per unit area: 27.8 W/m <sup>2</sup> (100 Btu/hr-ft <sup>2</sup> )	Load occurs at: Jul 10:00 Coil DB / WB: 16.1 / 12.8 Entering DB / WB: 26.0 / 21.1 Leaving DB / WB: 12.8 / 9.1 Coil ΔTDB / ΔWB: 3.3 / 3.7 Sensible heat ratio: 0.800 Reheat ratio: 0.000 Design reheat temp: 8.0 K			
Preheat Coil Sizing Data		Max coil load: 8.5 MW Coil surface: 1280.0 m <sup>2</sup> Max coil surface: 1378.0 m <sup>2</sup>	Load occurs at: Nov 05:00 Entering DB / WB: 21.1 / 16.1 Leaving DB / WB: 16.1 / 12.8 Design reheat temp: 8.0 K			
Supply Fan Sizing Data		Total air flow: 3760 CFM Standard air flow: 3660 CFM Actual air flow per unit area: 0.54 CFM/m <sup>2</sup>	Fan static head: 2.18 inWG Fan motor VAV: 1.82 kW Fan static: 2.08 inWG			
Outdoor Ventilation Air Data		Design air flow: 1260 CFM Air flow per unit floor area: 0.21 CFM/m <sup>2</sup>	Air flow per person: 20.0 CFM/person			
Zone Sizing Data						
Zone Name	Minimum Cooling Demand (kW)	Design Air Flow (CFM)	Maximum Total of Peak Load Heating Load (kW)	Zone Floor Area (m <sup>2</sup> )	Zone CFM/m <sup>2</sup>	Zone Heating Coil Load (kW)
1 Conference Rooms	1.4	311	240	4.4	71.0	0.0
2 Manager's Office	1.4	311	240	7.3	42.7	0.0
3 Manager's Office	1.4	311	240	20.0	15.3	0.0
4 Chief Engineer	1.4	311	240	1.8	108.0	0.0
5 Conference	1.4	311	240	11.4	34.2	0.0
6 General Office	30.1	1429	693	13.4	108.0	0.4



# Electrical & Controls

- Control Panel & Switchboard fabrication
- Electrical & Instrumentation design
- Component supply through to turn-key packages
- Electrical design reviews
- Electrical standards compliance audits
- Electrical installations and supervision
- Controls system training
- Intrinsically safe and Smart instrumentation supply
- Hazardous and Safe Area system components
- PLC design, programming and end user training
- Brownfields upgrades
- New build projects
- System retrofits
- SIL certified PLC systems



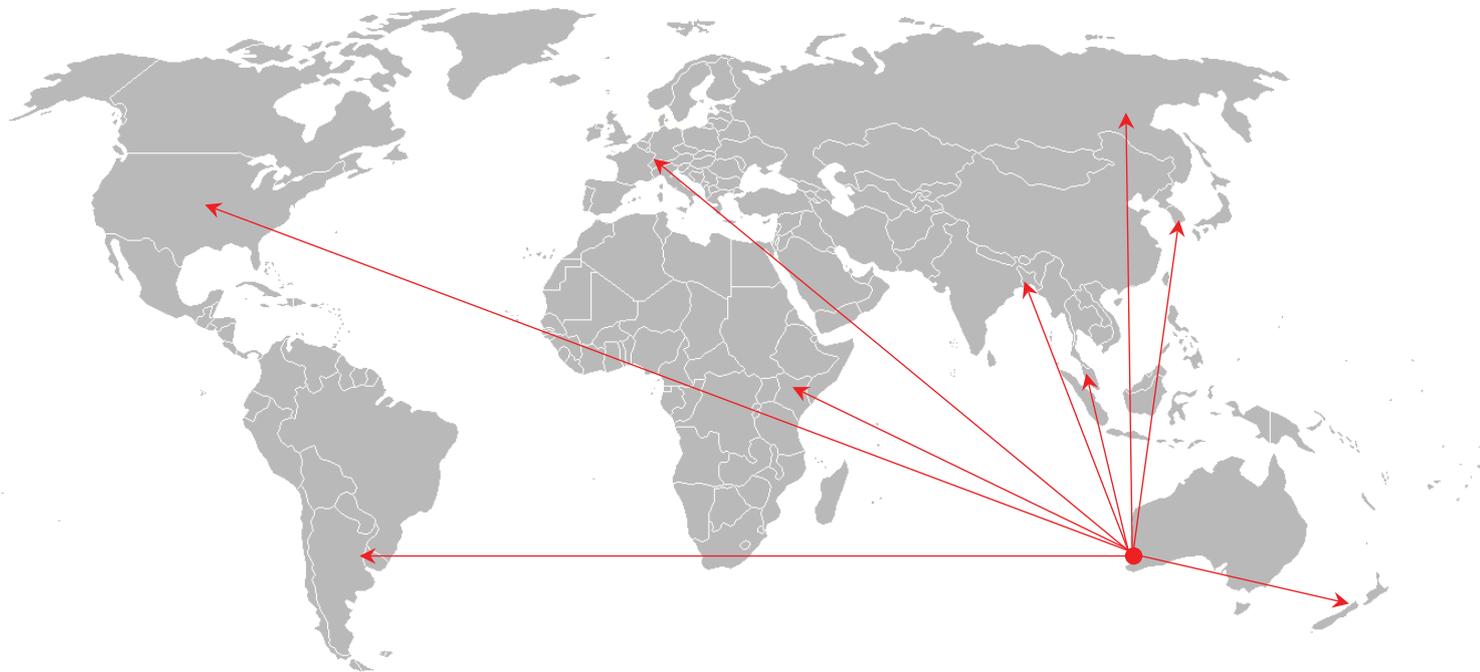
# Operating Regions

## Head Office & Factory

- Perth, Western Australia

## Worldwide

- Supply of equipment and parts
- Supply of qualified service technicians
- Supply of commissioning and installation technicians



# Contact Us

## Perth Office

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