

Industry Profile

refrigeration plant, safety compliance & energy audits

Auditing plays a critical role in the efficient operation of buildings with refrigeration systems. Audits are undertaken for such diverse purposes as planning capital investment, process analysis, energy reduction, and establishing a baseline for performance benchmarking.

The effectiveness of an audit is dependent on the understanding of refrigeration system function. Oomiak's technicians and engineers have many years experience in designing, installing and maintaining refrigeration systems. This underpins our ability to provide the following types of audits:

- **Plant Compliance Audits** – carried out in accordance with AS1677:1998 and where applicable the International Institute of Ammonia Refrigeration Checklists. Also covers AS/NZS 3666:2002. Associated codes include AS3788:2001 (relief valve inspection) and AS4041:1998 (pressure piping).
- **Plant Efficiency Audits** – carried out to identify and recommend energy cost saving measures for both the short and long term

Items typically covered in audits include:

- Building considerations – Access & egress, plantroom design and ventilation, stands, anchor bolts, structural supports, instructions and signage
- Equipment Condition & Compliance – Compressors, heat exchangers, evaporators, condensers, desuperheaters, pumps, refrigerant pumps, water pumps
- Mechanical & Electrical safety devices – Emergency shutdown systems, emergency ventilation, alarms and interlocks, gas detection systems
- Piping Systems – Piping & valves, safety relief valves and vent systems
- Pressure Vessels – High and low pressure receivers, accumulators, intercoolers, chillers, surge drums
- Protective Systems – Insulation, vapour barriers, insulation media, jackets, protective coatings
- PPE requirements
- Assessment of current plant efficiency and reliability and recommendations for improvement

Additional services available from the Team at Oomiak include:

- Routine preventative maintenance programs
- Emergency breakdown response
- Industrial Hire
- Compressor overhauls
- Plant design
- Equipment supply
- Turnkey project delivery

Why Oomiak?

Oomiak offers a full range of services. The company places a strong emphasis on interpreting customers' exact requirements in order to offer innovative solutions tailored to individual applications.

Oomiak invests time with customers so that it comes rapidly up to speed with their needs and specific factors about the environment in which the project will be delivered. This forms the basis upon which Oomiak shapes its project approach and builds its response.



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SECTION REFERENCE	CRITERIA	PRIORITY	NON CONFORMANCE	RECTIFICATION	BUDGET COST TO RECTIFY
400017 & 12.1	OIL SEPARATOR SAFETY RELIEF VALVE - RECALIBRATION	HIGH	Out of date	Calibration overdue - Recalibrate or replace immediately	
400017 & 12.1	OIL COOLER SHELL WERE SAFETY RELIEF VALVE - RECALIBRATION	HIGH	Out of date	Calibration overdue - Recalibrate or replace immediately	
	SAFETY STORAGE - ROTATING MACHINERY	LOW	None found		

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