



About Us

THERMAL IQ is Australia's largest manufacturer of small capacity process water solutions. This includes chillers and heat pumps. The technical team at THERMAL IQ have a combined 50 years in the Australian chilled water industry – our history goes directly back to the pioneers of chiller manufacturing in Australia – Blackmore and Singleman. No other company can offer this level of engineering experience and support for our customers' critical applications.

Rather than offer imported cooling or heating solutions, THERMAL IQ has dedicated itself to providing locally specified and manufactured products which are supplied with components sourced from the industry's tier one suppliers. With specifying HVAC equipment, experience counts, and no other company has the experience to offer the advice and solutions the market requires.

As the Australian market grows and diversifies, THERMAL IQ can offer expert advice on chillers, heat pumps, variable speed high efficiency scroll chillers, large scale condensing units, air handling and more.

THERMAL IQ is backed by a nationwide team of service technicians who are trained in the operation and

PUMP SKIDS

At Thermal IQ we tell our customers that you cannot have enough stored water in any heating or cooling solutions. If in the case that remote buffer tank is utilized a secondary pump skid may be required. This minimizes compressor starts, close temperature tolerance and more energy efficient operation.

Having the pump skid fabricated prior to delivery allows the skid to be tested, customized and ensure that it is easy to install once it gets to site. Pump skids assembled in the factory are cheaper than site manufacture.

Like all our products, we are in a unique ability to customize the solutions. The options available with our pump's skids are,

- Brand preference
- Pump soft start
- Software to manage duty cycling and N+1 control in the event of a pump fault.
- Modbus monitoring of pump performance
- Filtration is available with bypass to allow hot swap.
- Plumbed so if one pump develops a fault it can be hot swapped.
- IP66 enclosure for the control box
- Can be included with a buffer tank up to 5000L. Tank can be vented or pressurized to 10 bar – polyprop or stainless tanks available.
- Pressure monitoring to check filtration performance.
- VSD available on the pump – control customized to customer requirements.



BUFFER TANKS

As mentioned, stored water is highly critical in chilled or heated water process systems. Thermal IQ can specify and supply buffer tank solutions.

This includes,

- Vented tanks in stainless or plastic up to 10000L on a stand with insulation and connections to suit the site requirements.
- Pressure vessels in mild steel or stainless steel – rated to 10 bar and fully insulated.
- Full certification supplied.



We have been manufacturing stainless steel storage tanks since July 2014. We have unparalleled experience in the management of engineers to design and develop stainless steel equipment. We have over 100 people producing stainless HVAC equipment for the ASEAN HVAC industry.

Vented buffer tanks in plastic or polyprop can be supplied with automatic top up, level monitoring and can be connected to a central chiller control system.

Certification Available



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that: **KHAI MINH MECHANICAL CO., LTD.**
No. 3C, Lot CN12, Street 4, Song Than 3 Industrial Zone,
Phu Tan Ward, Thu Dau Mot City,
Binh Duong Province,
Vietnam

Holds Certificate Number: **FS 732294**
and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

Design, fabrication of stainless steel tanks, vessels, equipment and industrial processing system for food, beverage, chemical & pharmaceutical industries.

For and on behalf of BSI:


Chris Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2020-09-22
Latest Revision Date: 2020-09-22

Effective Date: 2020-09-22
Expiry Date: 2023-09-21

Page: 1 of 1



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