THERMAL IQ
2/8 GUNYA STREET
REGENTS PARKS NSW 2143

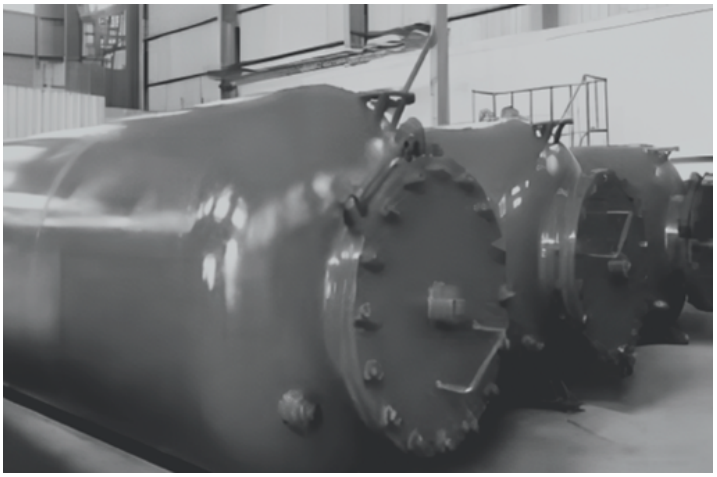
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WATER TANKS

TANKS:

- ***Thermal energy storage tanks***
- ***Buffer tanks***
- ***Commercial direct hot water tanks (Calorifiers)***
- ***Commercial indirect water tanks***
- ***Boiler feedwater tanks***

Australian Engineering Expertise, Backed by Global Capability



The principles at Thermal IQ have been at the forefront of providing innovative HVAC solutions across Australia and Southeast Asia dating back to 1946, now with more than six decades of combined experience. Our family is one of the founders of the Australian HVAC manufacturing industry with our roots being in cooling for the rail industry.

While much of the HVAC and heat transfer industry has moved away from OEM manufacturing in Australia, Thermal IQ remains committed to local manufacturing and engineering excellence. By maintaining domestic manufacturing capabilities, we preserve critical industry expertise, provide reliable technical support, and respond quickly to our customers' unique requirements.

Built on a strong foundation in chillers, heat pumps and heat transfer solutions, Thermal IQ is expanding its product and service offering to include:

- **Thermal Energy Storage Tanks**
- **Heat Transfer Systems**
- **Engineered Process Cooling Solutions**
- **Shell and tube heat exchangers**
- **Gasketed and brazed plate heat exchangers**

This expansion positions us to support the growing electrification of industrial and commercial water heating systems, delivering efficient and sustainable thermal solutions for the future.

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Global Manufacturing Partnerships

Thermal IQ has partnered with Mammoth and RVG, internationally recognised HVAC manufacturers with extensive operations across the United States and China. These partnerships enable us to combine local engineering knowledge with world-class manufacturing capabilities.

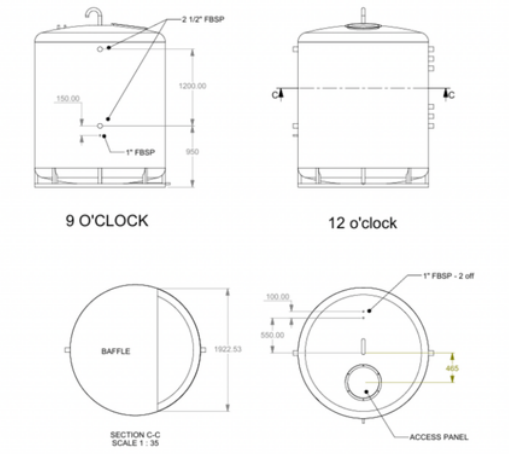
With access to a global supply network, Thermal IQ delivers high-performance, engineered HVAC and heat transfer solutions that meet the demands of modern industry.

Mammoth HVAC Systems

Mammoth is a leading manufacturer of complete HVAC packaged systems, known globally for its engineering expertise, product reliability, and commitment to energy efficiency.

Every product is supported by:

- **Precision engineering**
- **Rigorous quality assurance**
- **Robust supply chain management**
- **Proven manufacturing processes**
- **More than 30 years of combined industry experience**



MADE IN AUSTRALIA

THERMAL IQ is a Thermex Solutions business

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Storage Tanks

At Thermal IQ, we recognise that no two projects are the same. Our engineering, manufacturing, and supply processes are designed to minimise lead times from initial specification through to delivery.

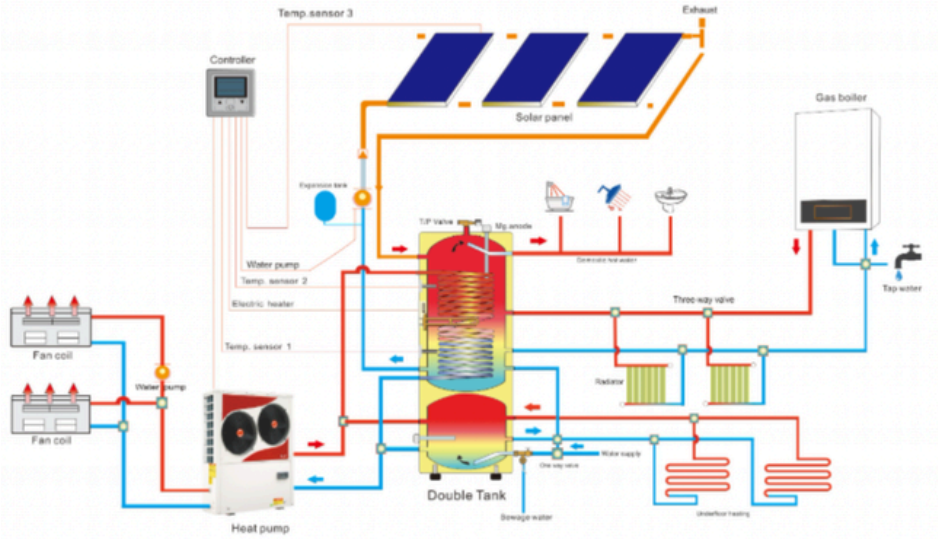
By integrating technical expertise with an agile supply chain, we deliver tailored heat transfer solutions quickly and efficiently.

Engineering & Technical Support Services

In addition to equipment supply, we offer:

- **3D and 2D CAD Design Support**
- **Tank selection**
- **Custom Skid Packages including:**
- **Pumps**
- **Controls**
- **Tanks**
- **Integrated Heat Transfer Equipment**

Whether supporting OEM manufacturers, contractors, consultants, or end users, Thermal IQ provides the technical expertise and engineering support required to deliver reliable, efficient, and sustainable thermal solutions.



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GENERAL INFORMATION

From looking at the nomenclature below, it's clear the solution we can offer

TANKS

Model	*C*	*Cap- L*	*Heating CCT*	*Cylinder Spec's*	*Heat recovery*
TS	P – Plastic S -Stainless Steel E – Enamel	1000	1X – Yes – kW 2X = No	Pressure – A Vented – B	0-None 1 - Y

TECHNICAL DATA – STORAGE TANKS

1. The storage tanks have a high-performance enamel liner backed by decades of expertise in glaze technology
2. Certified Pressure Vessel Construction: Manufactured under national special equipment standards, featuring a robust pressure vessel structure. Precision and consistency are ensured through automated submerged arc welding specifications (SAW).
3. Enhanced Corrosion Protection: Equipped with a 1.8-meter magnesium anode rod, providing effective protection against corrosion, scaling, and hot water erosion for extended service life
4. Customized Engineering Solutions: Designed for flexibility, offering tailored configurations to meet diverse requirements across multi-energy system applications
5. High-Efficiency Thermal Insulation: Incorporates 80mm integral polyurethane foam insulation, delivering superior heat retention, extended standby time, and improved energy efficiency
6. Versatile Energy Integration: Compatible with multiple energy exchange systems, with customizable material and design options to suit specific operational requirements

Parameters	Specifications				
Model	RLT-ECF1000	RLT-ECF1500	RLT-ECF2000	RLT-ECF3000	RLT-ECF5000
Capacity(L)	1000	1500	2000	3000	5000
Diameter (mm)	1000	1000	1000	1600	1600
Overall Height(mm)	1939	2640	3340	2319	3414
Cylinder Steel Thickness(mm)	6	6	6	8	8
Top/Bottom Dome Thickness (mm)	8	8	8	10	10
Inlet/Outlet Connection	DN50	DN50	DN50	DN50	DN50
Flow Connection	DN50	DN50	DN50	DN50	DN50
Drain Connection	DN50	DN50	DN50	DN50	DN50
Steel Material	Q345R	Q345R	Q345R	Q345R	Q345R
Design Pressure (Mpa)	1	1	1	1	1
Working Pressure (Mpa)	0.8	0.8	0.8	0.8	0.8
Design Temperature (C)	95	95	95	95	95
Working Temperature (C)	70	70	70	70	70
Dimension (mm)	ϕ1000*1939	ϕ1000*2640	ϕ1000*3340	ϕ1600*2319	Φ1600*3414

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TECHNICAL DATA – COPPER COIL STORAGE TANK



1. Advanced Enamel Liner Technology: RVG has uniquely developed a high performance enamel liner, backed by three decades of expertise in glaze technology, supported by provincial high-tech recognition and national invention patents

2. Certified Pressure Vessel Construction: Manufactured under national special equipment standards, featuring a robust pressure vessel structure designed for reliable operation under pressure. Precision is ensured through an automated submerged arc welding (SAW) process, guaranteeing uniform product quality.

3. Enhanced Corrosion Protection: Equipped with a 1.8-meter magnesium anode rod, providing effective protection against corrosion, scaling, and hot water erosion, ensuring long- lasting durability.

4. Customised Engineering Solutions: Tailored design and custom manufacturing capabilities effectively address diverse requirements across multi-energy system applications

5. High-Efficiency Thermal Insulation: Incorporates 80mm integral polyurethane foam insulation, delivering extended heat retention, improved standby performance, and enhanced energy efficiency while supporting energy conservation.

6. Enamel Double Coil Heat Exchange System: Integrated with an advanced enamel coated double coil, significantly enhancing heat exchange efficiency and pressure resistance, optimising overall system performance and energy savings.

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TECHNICAL DATA - COPPER COIL STORAGE TANK

SPECIFICATIONS

Parameters	Specifications				
Model	RLT-EDC1000	RLT-EDC1500	RLT-EDC2000	RLT-EDC3000	RLT-EDC5000
Capacity(L)	1000	1500	2000	3000	5000
Diameter(mm)	1000	1000	1000	1600	1600
Overall Height(mm)	1959	2660	3360	2299	3394
Cylinder Steel Thickness(mm)	6	6	6	8	8
Top/Bottom Dome Thickness (mm)	8	8	8	10	10
Heat Exchanger Coil Area (m2)	4	4	6	6	10
Material of Heat Exchanger	T2M	T2M	T2M	T2M	T2M
Inlet/Outlet Connection	DN50	DN50	DN50	DN50	DN50
Flow Connection	DN25	DN25	DN32	DN32	DN40
Drain Connection	DN50	DN50	DN50	DN50	DN50
Steel Material	Q345R	Q345R	Q345R	Q345R	Q345R
Design Pressure (Mpa)	1	1	1	1	1
Working Pressure (Mpa)	0.8	0.8	0.8	0.8	0.8
Design Temperature (C)	95	95	95	95	95
Working Temperature (C)	70	70	70	70	70
Dimension (mm)	ϕ1000*1959	ϕ1000*2660	ϕ1000*3360	ϕ1600*2299	Φ1600*3394



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TECHNICAL DATA



Capacity (L)	1000	2000	3000	4000	5000
Inner/Outer Diameter (mm)	800/900	1200/1350	1450/1600	1650/1800	1900/2050
Height(mm)	2267	2370	2488	2482	2502
Insulation Thickness (mm)	50	75	75	75	75
Inner Tank Material	Duplex 2205				
Inner Tank Thickness	2.0	3.0	3.0	4.0	4.0
Insulation Material	PU (Polyurethane)				
Outer Shell Material	Galvanized steel with painitng (white,silver grey, black,dark grey,frosted grey) / SUS304 / PU Coat				
Connection Size (Inch)	1" 1 1/4" 1 1/2" 2" or Flange				
Working Pressure	6	6	6	6	6
MAX. Testing Pressure	10	10	10	10	10
Container loading Quantity (40HQ)	30pcs	10pcs	8pcs	6pcs	5pcs

INDUSTRIES SERVED

- HVAC AND R
- POWER GENERATION
- MARINE
- PROCESS APPLICATIONS
- FOOD PREP
- RENEWABLE ENERGY
- DATA CENTRES

THERMAL IQ PRODUCTS/ SERVICES

- General engineering support and HX sizing
- Pump and transfer skids
- Buffer tanks
- CAD support
- High temperature CO2 heat pumps
- Hot water heat pumps
- Chillers
- Swimming pool heat pumps
- HX Service and repair

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CHILLERS / HOT WATER HEAT PUMPS
www.thermaliq.com.au
MAMMOTH HIGH-CAPACITY CHILLERS AND HEAT PUMPS
www.mammoth-HVAC.com.au



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