



# Tomlinson Pressure Deaerators

Australia's largest certified  
package boiler company.



**The Environmental  
Group Limited**  
*Engineering a Sustainable Future*

The Environmental Group Limited

[www.environmental.com.au](http://www.environmental.com.au)

# Working across the Circular Economy

## Our Purpose

Engineering a sustainable future.

## Our Mission

To enable our clients to contribute to a cleaner environment by safely delivering pivotal solutions while generating value for our shareholders, staff, and partner industries.

## Our Team

Our local experts are dedicated to reducing waste and boosting energy performance. Trusted worldwide to provide the highest standards of service and support.

# Tomlinson Energy Services

*Part of The Environmental Group*

Tomlinson Energy Services is Australia's leading provider of packaged boiler solutions, delivering the highest combustion efficiency to keep operating costs low and performance high.

We specialise in custom design, installation, commissioning, and national servicing and repairs, complemented by our 24/7 emergency support.

With offices and a dedicated service team across Australia, Tomlinson Energy Services ensures boilers operate at peak performance for maximum efficiency and reliability.



# Tomlinson Pressure Deaerators



## A Century of Excellence

# 100% Australian Design

Tomlinson Energy is Australia's leading boiler specialist, providing 24/7 emergency and service support across the Asia-Pacific region. We supply economical, high-efficiency solutions for steam boilers, hot water systems, and thermal oil heaters. In addition, we offer in-house technology from renowned brands, including Tomlinson Boilers, Bosch, Fulton Condensing Boilers, and John Thompson Package Boilers.

# PRESSURE DEAERATORS

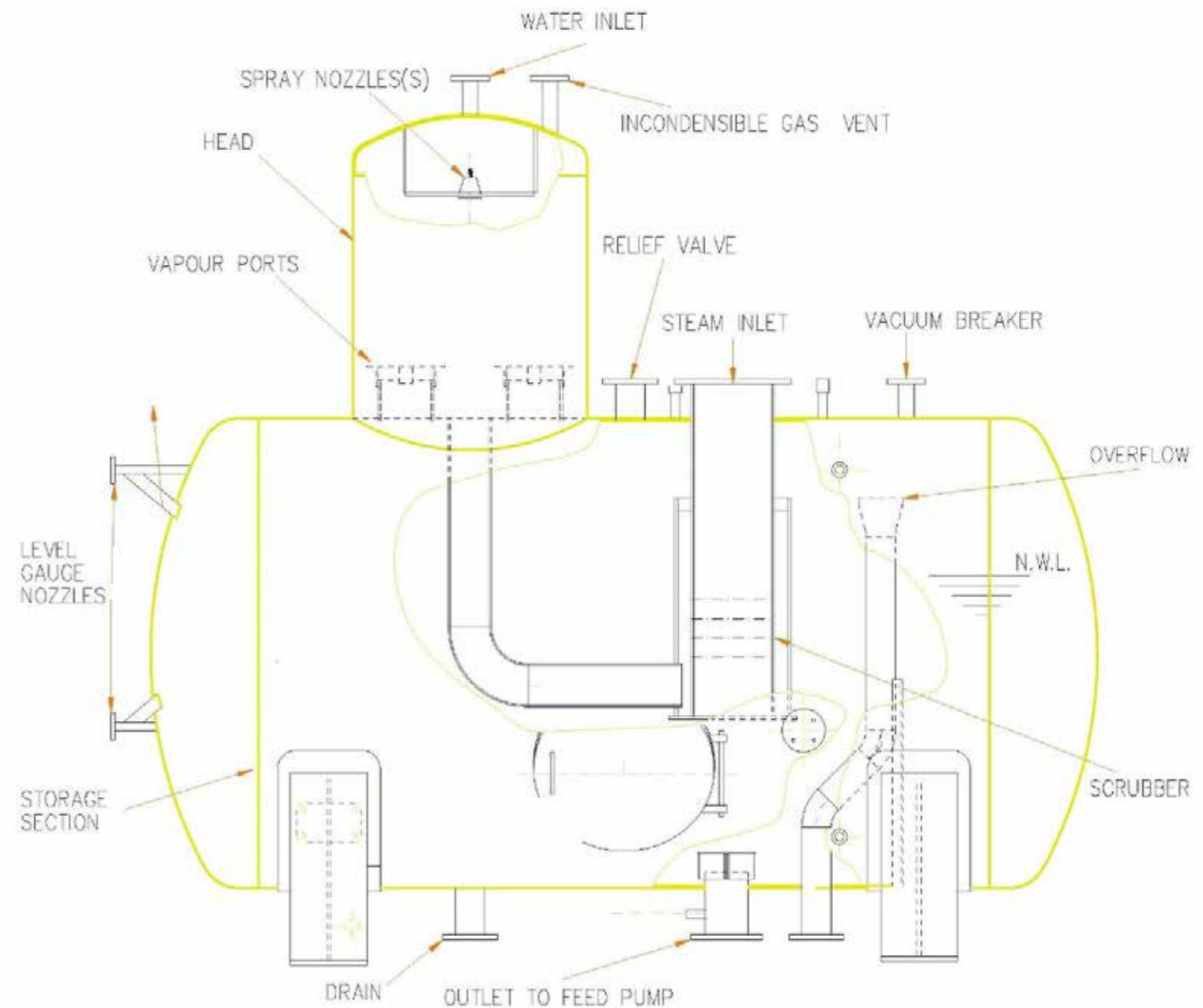


Tomlinson Energy Service offers cutting-edge pressure deaerators based on Kennicott / John Thompson technology, designed for exceptional performance and efficiency. Our deaerators are available in a size range from 10 t/h to 500 t/h, ensuring optimal solutions for various industrial applications. The water leaving the deaerator contains less than 0.005 mg/l of oxygen, meeting the highest standards for water quality. Standard models operate at 20 kPa above atmospheric pressure, with the option for higher-pressure units to accommodate higher feedwater temperatures. Storage capacity is typically designed for 10 minutes, but can be customised to meet specific process requirements.

## Key Features and Benefits of Tomlinson Energy Service Pressure Deaerators:

- **High-Quality Oxygen Removal:** Water leaving the deaerator contains less than 0.005 mg/l of oxygen, ensuring optimal steam quality and preventing corrosion.
- **Customisable Pressure Options:** Standard models operate at 20 kPa above atmospheric pressure, with higher-pressure units available for higher feedwater temperatures.
- **Efficient Storage Capacity:** The standard deaerator is coupled with a vessel offering 10 minutes of storage capacity, which can be tailored to suit specific operational needs.
- **Advanced Spray Nozzle Technology:** Special spring-loaded spray nozzles efficiently atomise water, ensuring uniform flow conditions for effective deaeration.
- **Minimised Heat Loss:** Steam entrained with released gases is condensed in a water-cooled pipe, minimising heat loss from the system and enhancing energy efficiency.
- **Thorough Gas Removal:** Deaerated boiling water is vigorously agitated in a stainless-steel scrubber, removing practically all remaining gas for maximum water purity.
- **Comprehensive Control and Monitoring:** Standard deaerators include pneumatically operated water flow and pressure control valves, along with essential fittings such as water level gauges, transmitters, and relief valves for optimal operation and safety.

Tomlinson Energy Service's pressure deaerators provide a reliable, high-efficiency solution for industries requiring precise control over water quality, ensuring longer equipment life, reduced maintenance costs, and optimal system performance. Our expertise in custom design, manufacturing, and service ensures that each deaerator is perfectly suited to your unique operational requirements.



### STANDARD CAPACITIES

MODEL NUMBER	OUTPUT (t/h)	STORAGE (tonnes)	HEAD DAMETER x LENGTH (mm)
TES010	10	1.6	Integral
TES020	20	3.3	900 x 1000
TES035	35	5.8	1050 x 1000
TES050	50	8.3	1200 x 1000
TES100	100	16.7	1500 x 1000
TES200	200	33.3	2000 x 1250
TES300	300	50.0	2300 x 1250
TES500	500	83.3	2700 x 1250

Other Models Available on Request  
Storage Time can be Customised to Suit



### ABBREVIATED REFERENCE LIST

CLIENT / LOCATION	CAPACITY (t/h)	PRESSURE / TEMPERATURE
Goro Nickel, New Caledonia	1 x 475	42 kPa/ 110°C
Caltex Refinery, Brisbane	1 x 216	120kPa / 123°C
Murray Goulburn, Rochester	1 x 30	20 kPa/105°C
Unilever Foods, Sydney	1 x 16	20 kPa/105°C
BP Refinery, Brisbane	1 x 320	20 kPa/105°C
BHP DRI, Port Headland	1 x 220	20 kPa / 105°C
Stuart Energy, Gladstone	1 x 19	20 kPa / 105°C
Hawaiian Philippines, Philippines	1 x 230	100 kPa / 120°C
Nabalco, Gove	1 x 63	350 kPa / 148°C
Bulong Nickel, Kalgoorlie	1 x 32	20 kPa / 105°C
Visypaper, Brisbane	1 x 50	20 kPa / 105°C
Murray Goulburn Coop, Victoria	1 x 16	20 kPa / 105°C
Comalco, Weipa	1 x 10	20 kPa / 105°C
Lopez Sugar Mill, Philippines	1 x 110	20 kPa / 105°C

# Contact Us

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## Office Locations



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