



# APT TANKS FOR FIRE SERVICES

# FIRE SERVICES TANKS

## PREFABRICATED MODULAR TANKS

**Specialist tanks for the global fire protection industry.** Prefabricated, modular tanks designed to meet the requirements of Australian and international fire protection standards.

### FIRE TANK SPECIALISTS

Pentair Southern Cross specialise in the design, manufacture, installation and servicing of water storage systems for the global fire protection industry.

Utilising complete in-house design, engineering and total project management services, Pentair Southern Cross provide specially designed and certified water storage products for all applications including high wind and cyclonic locations as well as specific seismic conditions.

Southern Cross fire tanks are designed and manufactured to comply with the following:

### FIRE TANK CODES

- AS2304-2011 Water Storage Tanks for Fire Protection Systems
- AS2118.1 Automatic Fire sprinkler Systems.
- AS3500.1:2003 Relating to Fire Tanks

### STRUTURAL DESIGN CODES

- AS4100 SAA Steel Structures Code
- AS/NZS1170.1 Loading Code - Dead and Live Loads.
- AS/NZS1170.2 Loading Code - Wind Loads.
- AWWA D103-97 Bolted Steel Tanks
- Eurocode 3 Design of Steel Structures Part 4.-2: Tanks

Tanks complying to additional international fire codes including NFPA22 Standard for Water Tanks in Private Fire Protection and products that comply with FM Global requirements can be supplied for particular customer requirements.

### INSTALLATION ADVANTAGES

The modular design of Southern Cross APT Tanks has significant advantages over conventional concrete and welded steel tanks.

Modular tanks are pre-fabricated and flat packed in factory to ensure easy transportation and storage. There is no requirement for on-site rigging, welding, cutting, coating, working at heights or scaffolding installation required. This greatly reduces installation time and minimises exposure to occupational health and safety issues.

APT Tanks are installed from the roof down utilising specialised hydraulic erection equipment. This removes the need to work at heights.

Pentair Southern Cross have fully qualified and highly experienced tank erection crews available for fire tank installations in any location.

### QUALITY GUARANTEE

Pentair Southern Cross are ISO9001 accredited and backed by more than 100 years of successful tank design, manufacture and installation. Southern Cross APT tanks are installed world wide in a wide range of applications including:

- Fire Services
- Power Stations
- Mining
- Industry
- Waste and Potable Water
- Thermal Energy
- Process Water





All Southern Cross APT round tanks are supplied with a 10 year warranty and have an expected service life of more than 30 years if maintained properly.

#### **TANK INSPECTION**

Pentair Southern Cross' can provide a comprehensive tank inspection services on all Southern Cross and other types of tanks to ensure the safe and reliable storage of water.

Using an unmanned remotely operated vehicle (ROV), Pentair Southern Cross can conduct detailed internal inspections of all types of water tanks. This method negates the risks associated with using commercial divers or lowering people into emptied tanks. This allows inspections to be conducted quickly and with minimal impact on water services.

Site checks of existing tank installations can be conducted and detailed structural integrity and internal inspection reports provided.

Our experienced maintenance personnel can conduct inspections and basic maintenance with little or no disruption to water services.

#### **CLEANING AND MAINTENANCE**

Pentair Southern Cross offers programmed tank cleaning and maintenance contracts on all new and replacement fire tanks in accordance with AS1851.3. This standards calls for fire tanks to be inspected annually and maintained every three years which Southern Cross can do using specially trained and certified tank maintenance personnel.

Pentair Southern Cross provides a total fire services tank solution including design, manufacture installation, inspection and maintenance. All tanks comply to the relevant Australian and international standards.

# YT SERIES

## GALVANISED STEEL ROUND TANKS



### YT SERIES GASKET TANKS

Premium quality bolted steel modular circular tanks for safe, long lasting water storage. Available in high or low profile designs in sizes ranging from 13 to 10,000 Kilolitres.

### APPLICATIONS

- Fire Services
- Building Services
- Potable Water
- Waste Water
- Air Conditioning Systems
- Community Water Supplies
- Mining
- Process Water
- Power Stations

### FEATURES

- Designed and manufactured in Australia.
- 2mm thick galvanized steel sheets.
- 30+ year design life.
- Designed and manufactured to meet AWWA/ANSI D103-97 standard.
- Complies with all relevant codes under Australian standards.
- Fully pre-fabricated for easy transport, storage and installation.
- Top-down installation eliminated requirement for scaffolding or working at heights.
- Easy retrofitting of additional panels for increased capacity.
- Bolt together design does not require any on-site welding.
- Choice of coatings and liners for specific applications or installation environments.

### OPTIONS

- Pipe connections.
- Internal and external ladders and landings.
- Manholes with lockable covers.
- Vents (Fixed or rotating).
- Anti-vortex outlets.
- Water level indicators.

# BT SERIES

## RECTANGULAR TANKS



### BT SERIES TANKS

External structure, pre-fabricated rectangular bolted steel modular liner tanks designed for corrosion resistant water storage for confined or irregular spaces. Capacities from 10 to 1,000 kilolitres.

### APPLICATIONS

- Fire Services
- Building Services
- Potable Water
- Waste Water
- HVAC
- Community Water Supplies
- Process Water

### FEATURES

- Designed and manufactured in Australia.
- 2mm thick galvanised steel sheets supported by external hot dip galvanised universal beams..
- Complies with all relevant codes under Australian standards.
- Fully pre-fabricated for easy transport, storage and installation.
- Low pitch roof for outdoor use or flat roof with raised ball valve for indoor installations.
- Can be installed on any flat, load bearing surface by simply bolting down. (No sealing required.)
- Bolt together design does not require any on-site welding.
- Choice of coatings and liners for specific applications or installation environments.

### OPTIONS

- Pipe connections.
- Internal and external ladders and landings.
- Manholes with lockable covers.
- Vents (Fixed or rotating).
- Anti-vortex outlets.
- Water level indicators.
- Sump liners.
- WRc Type "A" air gap.
- Immersion heaters.

# ST SERIES

## SQUARE PANEL TANKS



### ST SERIES PANEL TANKS

Prefabricated rectangular panel tanks designed for confined or irregular spaces. Available in a range of materials to suit installation and application requirements.

### APPLICATIONS

- Fire Services
- Building Services
- Potable Water
- Air Conditioning
- Process Water
- Waste Water
- Temporary Installations.

### FEATURES

- Designed and manufactured in Australia.
- Complies with all relevant codes under Australian standards.
- Manufactured from 1000mm x 1000mm panels ranging from 2mm to 6mm in thickness.
- Fully pre-fabricated for easy transport, storage and installation.
- Low physical profile.
- Bolt together design does not require any on-site welding.
- Available in galvanised mild steel, epoxy coated mild steel, 304 stainless steel or 316 stainless steel.
- Low pitch roof for outdoor use or flat roof for indoor installations.
- Tough and vandal resistant for unsupervised sites.

### OPTIONS

- Pipe connections.
- Manholes with lockable covers.
- Vents (Fixed or rotating).
- Valves.
- Ladders.
- Anti-vortex outlets.
- Water level indicators.

# GRP SERIES

## GLASS REINFORCED PLASTIC TANKS



### ST SERIES PANEL TANKS

Prefabricated rectangular glass reinforced plastic modular tanks designed for safe, reliable storage of clean water for building services and potable water applications.

### APPLICATIONS

- Building Services
- Potable Water
- Air Conditioning
- Process Water

### FEATURES

- Complies with all relevant codes under Australian standards.
- Chemically inert construction material.
- Fully pre-fabricated for easy transport, storage and installation.
- Low physical profile.
- Bolt together design does not require any on-site welding.
- Concave drainage panels to ensure complete and fast drainage.

### OPTIONS

- Pipe connections.
- Manholes with lockable covers.
- Vents (Fixed or rotating)
- Internal partitions.
- Ladders.
- 3 layer foam heat insulation.
- Additional external and internal reinforcement.



**PENTAIR SOUTHERN CROSS**

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