

# Pump Solutions CATALOGUE



**WATER MANAGEMENT EXPERTS**

[aquaenergygroup.com.au](http://aquaenergygroup.com.au)

# Fire Booster Pumpstations

Recognizing the growing demand for Fire Protection Pump sets, Aqua Energy Group have developed effective turn-key solutions that comply with Australian Standards.

Our Fire Pump sets are available in both diesel and electric configurations and are assembled as fully automated fire solutions, including valves, controls, pipework and accessories. Our Fire Enclosures, available as both single and dual systems, provide extra protection for your Fire Pump set, shielding it from harsh weather and securing it with the use of a standard lock.

Fire Pump Systems protect your business, project or commercial building by increasing the firefighting capacity with the use of high-pressure water pumps and pressure boosting.

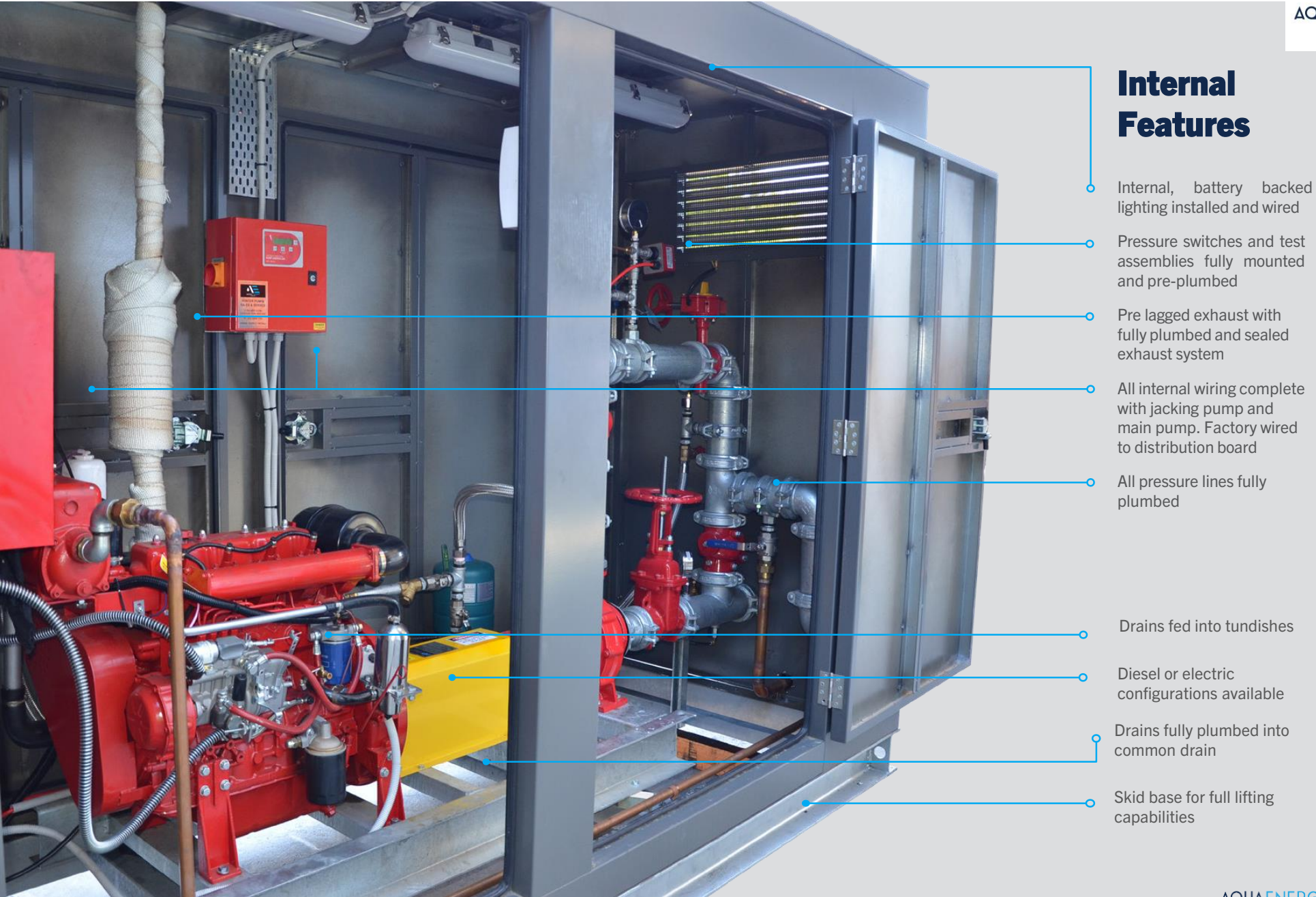
Aqua Energy Group can create custom Fire Pump set Enclosures, designed to suit your specific requirements, needs and budget. With over 20 years of experience, our team has extensive knowledge of all current engineering requirements and standards, providing you with the optimum solution.

## Applications:

- Hospitals
- Apartments
- Shopping Centres
- Industrial Developments
- Marinas
- Resorts
- Restaurants
- Schools/Universities
- Mining Projects
- Commercial Developments

## Features:

- Diesel or Electric Configuration
- Control Panel
- Fully Galvanised Steel Construction
- Fully Automated
- Common Fabricated Base
- Compact
- Easy to Install
- Compliant with Australian Standards
- Factory Wired and Tested
- Internal Ventilation and Coolant Heaters
- Internal Wiring and Power Outlet
- Secure & Weather Protected





# PONTON PUMPS

Our Pontoon Pump-stations are fully marine engineered, mine compliant, safe, compact and modular, low-weight, tested and commissioned prior to dispatch, and built to Australian and International Standards, to increase the operational lifetime of each pump station.

Designed for dewatering, flood control, dredging, sludge removal, irrigation and water supply capabilities for tailings dams, water storage dams and even rivers. Pontoon pump stations offer significant economic, environmental and efficiency advantages, not only are they cost-effective, but they are also lower maintenance, site relocatable and lower risk of dam unauthorized overflows.

Constructed to the highest quality standards, our pontoon pump-stations can be fit with our wide range of specialized pontoon mounted pump systems including submersible dewatering pumps, self-priming diesel and electric dewatering pumps, surface dewatering pumps, centrifugal pumps, column pumps, slurry pumps, fire pumps and more.

## Benefits:

- Relocatable systems
- Systems that can be manufactured from a variety of non-corrosive materials to suit any environment
- Reduction of operational costs
- Low maintenance
- Increased reliability
- Reduce suction lift requirements
- Allows for greater range of available pump configurations
- Can be built with integrated fixed jetties, gangways, walkways, bridges, etc.
- Full turnkey option available

## Applications:

- Mining operations
- Dredging
- Construction dewatering
- Environmental remediation





# DEWATERING PUMPS (DIESEL & ELECTRIC)

Aqua Energy Group have dewatering pumps suitable for any application, including surface dewatering pumps, dewatering pods, and submersible dewatering pumps.

Dewatering pumps are a low weight and compact design for convenient transport, handling and installation. The plug-in start enables quick connection on site with motor protection preventing the risk of overheating. The modular design with interchangeable spare parts makes servicing easier and increases flexibility for the site's future.

Our dewatering pumps provides unparalleled pumping capacity, with the ability to remove large volumes of water with ease. Whether you're dewatering construction sites, mining tunnels or industrial facilities, Aqua Energy Group can provide an easy, cost-effective solution.

## Applications:

- Mining projects
- Industrial development / Infrastructure
- Land reclamation and drainage
- Groundwater control.

## Features:

- Can be installed in remote locations
- Quick and simple to install
- Fully automated
- Customized for different systems.





# UNDERGROUND DEWATERING FISHTANKS

Underground dewatering fishtanks play an important role in areas where groundwater or surface water needs to be removed.

Aqua Energy Group has developed a turn-key solution for underground dewatering fishtanks. Engineered for submersion, our pumps excel in removing fluid from deep underground spaces. Its robust design ensures efficient operation even in harsh and remote environments, keeping employees safe.

Our company has in-house design and manufacturing capabilities, providing room for flexibility to suit any mine site. With a tried and tested long lifespan, these dewatering systems are the perfect solution for your mine.

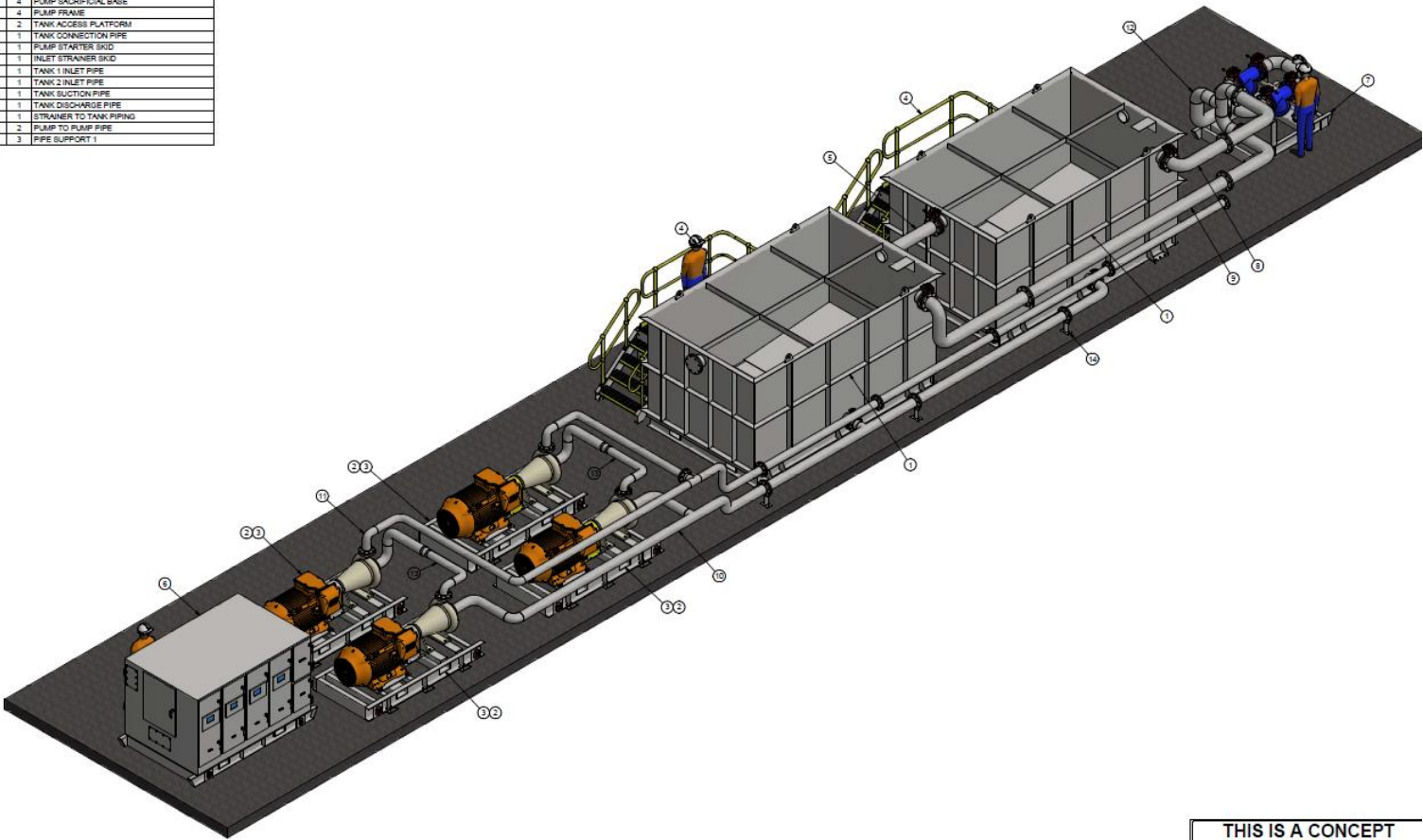
## Applications

- Pumping slurry
- Underground mines
- Construction
- Land reclamation
- Flood control
- Environmental remediation.

## Benefits

- Suitable for tailings treatment.
- Corrosion resistant
- Fully automated.
- High pump capacity with efficient motor.
- Easy to maintain.
- Compact
- Portable design.

ITEM	QTY	DESCRIPTION
1	2	PUMP STATION TANK
2	4	PUMP SACRIFICIAL BASE
3	4	PUMP FRAME
4	2	TANK ACCESS PLATFORM
5	1	TANK CONNECTION PIPE
6	1	PUMP STARTER SKID
7	1	INLET STRAINER SKID
8	1	TANK 1 INLET PIPE
9	1	TANK 2 INLET PIPE
10	1	TANK SUCTION PIPE
11	1	TANK DISCHARGE PIPE
12	1	STRAINER TO TANK PIPING
13	2	PUMP TO PUMP PIPE
14	3	PIPE SUPPORT 1



THIS IS A CONCEPT  
DRAWING AND IS  
SIMPLIFIED FOR CLARITY





# BORE PUMPS

Mine dewatering using submersible borehole pumps is an efficient, low maintenance and reliable method to dewater an underground mine as they are not affected by underground constraints such as ventilation, power outages and inspections by personnel. Borehole Pumps are usually remotely located from main surface infrastructure, and as such are fully automated. A correctly sized pump and motor, with a carefully designed underground sump, can dewater and control underground mine wastewater without the need to have underground personnel or large infrastructure installed underground.

At Aqua Energy Group, we understand that every water supply system is unique, which is why we offer customizable solutions tailored to your specific needs. Our bore pumps are built to last, ensuring reliable operation even in harsh environments.

## Benefits

- Fully automated solution
- Low maintenance installation
- Reliable dewatering option
- Cost effective solution

## Features

- Diesel powered
- Stainless steel for abrasive applications
- Capacity of up to 400 litres per second
- Robust design for remote locations
- Turnkey package offered
- Head pressures of 500+ meters
- Ex.d installations available





# CENTRIFUGAL PUMPS

Aqua Energy Group’s centrifugal pump units come in a variety of configurations and sizes to suit your application. Centrifugal pumps are the most used pump type in the world. They are robust, effective and inexpensive to produce.

Centrifugal pumps are used to transport fluids using kinetic energy to increase flow rate efficiency. The impeller accelerates the fluid to assist with the rapid outflow to the desired flow rate. These pumps are used for a range of applications including water transfer and boosting.

Aqua Energy Group can provide multi-stage pumps including a heavy-duty version. We offer customizable solutions from compact pumps to high flow pumps suitable for large-scale applications.

Aqua Energy Group has agreements with reliable manufacturers such as:

- Grundfos
- Lowara
- TKL
- KSB
- NOV

### Applications:

- Mining projects
- Industrial projects
- Wastewater treatment

### Benefits

- High efficiency
- Range of applications
- Low maintenance requirements
- Quiet, compact and portable design
- High flow rate
- Self-priming
- Reliable pumps and parts



HEAVY DUTY  
HORIZONTAL  
MULTI-STAGE  
PUMP



MULTI-STAGE  
PUMPS



# POSITIVE DISPLACEMENT PUMPS

Positive displacement pumps are useful across several areas including mining projects, HVAC systems, water treatment plants, and chemical processing plants. They can be used for transferring slurry, wastewater and chemicals in mines but are also used for circulating hot and cold water through buildings.

Aqua Energy Group has a variety of positive displacement pumps available. Our current products are helical rotor pumps, hose pumps, and metering/dosing pumps. All our pump products are capable of precise and consistent fluid transfer, and can be used for delicate chemicals, viscous liquids, or abrasive slurries.

Designed for simplicity, our positive displacement pumps are easy to install and maintain, maximizing efficiency in your business.

## Applications:

- Mining industry
- HVAC systems
- Water and wastewater treatment
- Chemical processing plants

## Benefits:

- Useful for small and large projects
- Easy to install
- Most designs useful for remote locations
- Air or electric powered





# HIGH PRESSURE BOOSTER PUMPS

Pressure booster pumps can be used for fire protection systems, hydraulic systems, and booster pumping stations. These pumps are essential for correct water distribution and maintaining water pressure. They are a specialist design system to allow dewatering of mines or tunnels that are several hundred meters underground.

Aqua Energy Group can design, manufacture, and install pressure booster pumps tailored to your needs. Whether you need a modest pressure increase for residential use or a high-powered boost for commercial applications, our pressure booster systems can meet your requirements.

Aqua Energy group has a team of experts who provide unparalleled customer support from initial design through to installation and commissioning.

## Applications:

- Mining projects
- Renewable Energy Sector
- Industrial Development
- Commercial Development
- Schools/Universities
- Hospitals

## Features:

- Customizable to industry standards
- Fully automated
- Can be designed for many applications
- Pumps and parts suitably pressure rated
- Complete turnkey solution including all electrical and mechanical requirements





## Spare Parts and Repairs

**MECHANICAL SEALS**

**VALVES**

**DIAPHRAGMS**

**ROTOR/STATOR**

**IMPELLERS**

**SHAFTS**

**MACHINING**

**PERFORMANCE  
TESTING**

**TOTAL PUMP SET  
OVERHAULS**

