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Allied Pumps

Fire Protection Pumpsets

The Allied Pumps range of Package Fire Protection Pumpsets wASdeveloped to meet growing demand for specialised turnkey systems compliant with relevant Australian standards. Available in diesel and electric drive configurations, pumpsets are assembled on a common fabricated base with pipework manifolds, valves, controls and accessories to provide a fully automated system.

THE ALLIED PUMPS ADVANTAGE

- COMPLETE PACKAGE: Diesel engine, electric motor, anti-vibration mounts, fuel tank, batteries, pressure relief valves and heat exchange cooling, all interpiped and interwired on a common base.
- FULL IN-HOUSE MANUFACTURING: Fabricated in-house from base through to pipework and switchboards, giving complete control over quality, cost and project timeframes.
- TEST FACILITY TO AS2417: NATA certified test bays with flow capabilities to 700 L/sec, so every system is proven before it leaves the factory.
- SYSTEM FLEXIBILITY: Engineered to the application, whether that means a special size for an existing plant room or a code compliant system drawing from a below ground tank.

QUALITY ASSURANCE ISO 9001:2015 CERTIFIED

HEALTH & SAFETY ASSURANCE ISO 45001:2018 CERTIFIED

ENVIRONMENTAL ASSURANCE ISO 14001:2015 CERTIFIED

SUPPORT

Support runs from initial engineering assistance through to on-site commissioning and after sales service, so the system is specified correctly, installed correctly and maintained through its life.

SYSTEM CONFIGURATIONS

- Single Diesel Duty Pump
- Single Electric Duty Pump
- Diesel and Electric Duty and Standby Pumps
- Dual Diesel Duty and Standby Pumps
- Dual Electric Duty and Standby Pumps
- Integral Hose Reel Jacking Pump
- Complete Pipework Manifolds or Pumpset Configuration Only



Containerised Fire Protection Pumpset

The Containerised Fire Protection Pumpset is a complete package solution, incorporating diesel engine and electric motor, anti-vibration mounts, fuel tank, batteries, heat exchange cooling, lighting, power and ventilation, interpiped and interwired within a purpose modified shipping container. Designed and manufactured to AS2941 and tested to AS2417.



PRODUCT SPECIFICATIONS

Configuration	Availablility	Designation
Diesel and Electric	Standard	APFH-DEHC
Dual Diesel	Option	APFH-DDHC
Dual Electric	Option	APFH-EEHC
Single Diesel	Option	APFH-DHC
Hose Reel Jacking Pump	Standard	APFH-DEHC
Pressure Maintenance Pump	Option	APFH-DEJC
Sound Attenuation System Class 1	Option	APFH-DEHC-E1
Sound Attenuation System Class 2	Option	APFH-DEHC-E2
Containerised	Option	APFH-DEHC-SC
Canopy	Option	APFH-DEHC-JC



WHY CONTAINERISED

The enclosure is the plant room. Arriving inside a purpose modified shipping container, the pumpset needs no separate shelter built on site, and it moves on and off site as readily as it was delivered. The result is a system that costs less to install and goes where others cannot.

KEY FEATURES

- Resilient Mounted Pump Equipment
- All Pipework Including Exhaust Plumbed to External Point
- Louvres and Rotating Extractors for Enclosure Ventilation
- Internal Lighting and Power Outlets
- Vandal Resistant
- Cyclone Rated if Required
- Reduced Noise
- Complete System Factory Tested

PRODUCT APPLICATIONS

- Remote Sites
- Temporary Installations
- Mining Operations
- Sites Without Existing Plant Room Shelter

FIRE PROTECTION SYSTEMS

Sound Attenuated Fire Pumps

The Sound Attenuated Fire Pumps is a noise attenuation package for fire pumping equipment, addressing diesel engine direct attenuation, enhanced muffler packs, super high resilience mounts and metallic flexible manifold connections. Two classes are available, reducing noise internally and externally or externally only, depending on what the site and its neighbours require.



ATTENUATION PERFORMANCE

	Unattenuated	Class 1	Class 2
Engine	104 dBA	88 dBA	98 dBA
Exhaust	98 dBA (standard muffler)	78 dBA	78 dBA



CLASS COMPARISON

Model	Exhaust Attenuation	Engine Attenuation	Pumpset Isolation
Class 1	Super Critical	Yes	Pipework and Pumpset
Class 2	Super Critical	No	Pipework and Pumpset

WHY IT MATTERS

Fire pumps require mandatory regular testing under AS1851, so noise from a fire pump is not an occasional problem. In an environment of increasing awareness of noise pollution, attenuation reduces exposure to excessive noise claims and satisfies the demands of occupants, authorities and neighbours.

KEY FEATURES

- Diesel Engine Direct Attenuation
- Enhanced Muffler Packs
- Super High Resilience Mounts
- Metallic Flexible Manifold Connections
- Pipework and Pumpset Isolation
- Two Attenuation Classes to Suit the Site

PRODUCT APPLICATIONS

- Buildings With Occupied Spaces Near Plant Rooms
- Sites With Residential Neighbours
- Locations Subject to Local Noise Limits
- Any Installation Where Routine Testing Causes Disruption

FIRE PROTECTION SYSTEMS

Vertical Column Shaft Pumpset

Fire protection from below ground water storage

Allied Pumps Vertical Column Shaft Pumpsets draw from below-ground water supply for fire protection, allowing concealed tanks to be used in place of above-ground storage. Because the pump column extends down into the tank, suction is always flooded, eliminating the priming and suction problems associated with drawing from below the pumphouse. Configurations are custom engineered to the depth and duty of each installation and comply with AS2941.

KEY FEATURES

- Suits Below-Ground Water Supply
- Maintains Flooded Suction Requirement of AS2941
- Eliminates Priming and Suction Problems
- Reduces Risk of Pump Room Flooding
- Heavy Duty Right Angle Gearbox for Diesel Drive
- Vertical Mount Motor for Electric Drive
- Submersible Multistage Jacking Pump on Dropper Pipe

PRODUCT APPLICATIONS

- Developments With Limited Site Area
- Concealed Below-Ground Tank Installations
- Retrofit to Existing Below-Ground Storage
- Sites Where Above-Ground Storage Is Not Permitted



FREEING UP THE SITE

Above-ground fire water storage occupies land that could be built on, landscaped or sold. On a constrained block it can be the difference between a scheme that works and one that does not, and on a large development it is area that generates no return for the life of the project.

Drawing from a concealed below-ground tank removes that constraint. The storage sits under the site rather than on it, freeing the area above for development while the pumpset draws from below the level of the pumphouse. The fire system is unchanged in capability and remains fully compliant with AS2941, so the gain in usable land costs nothing in protection.



Vertical column shaft pumpset during installation, showing the column head above the tank.



Column assembly being lowered into the below-ground tank, with the pumphouse in position above.

Fire Pump Enclosure

Allied Pumps Fire Pump Enclosures deliver compact, weather resistant and vandal resistant housing for fire pump systems, suited to professional and acoustically sensitive sites. Built from fully galvanised steel with a heavy duty powder coated finish in any colour, each enclosure is custom designed to comply with site restrictions and delivered pre-assembled for fast, complete installation.



BUILD QUALITY

Every Allied Pumps' Fire Pump Enclosure is engineered to withstand harsh outdoor conditions and demanding site environments.

- Fully Galvanised Steel Construction for Long Term Corrosion Resistance
- Reinforced Frame for Structural Strength in Outdoor Environments
- Sealed Joints and Panels to Prevent Water and Dust Ingress
- Large Access Doors for Simplified Servicing and Maintenance
- Designed to Comply with Site Specific Restrictions and Requirements

From galvanised frame to powder coated shell, every enclosure is finished to last, engineered to blend in, and built to perform.

SURFACE FINISH

A durable, professional finish ensures every enclosure blends into its surroundings while standing up to the elements.

- Heavy Duty Powder Coated Finish for Added Durability
- Colour Matched to Suit Surrounding Site Architecture
- Weather Resistant Coating to Protect Against UV and Corrosion



KEY FEATURES

- Aesthetically Pleasing Design
- Sound Attenuating Option
- Removable Panels for Easy Access During Servicing
- Pre-Assembled to Save Installation Time
- Neat Compact Footprint
- Weatherproof Protection for Internal Components
- Customised Options Available on Request

PRODUCT APPLICATIONS

- Fire Pump Set Housing
- Acoustically Sensitive Sites
- Sites Requiring Vandal Resistant Enclosures
- Installations Needing Custom Architectural Blending

Fire Hose Reel Pressure System

Reliable Pressure Boosting for Hose Reel and Sprinkler Systems

Allied Pumps Fire Hose Reel Pressure System maintains consistent, reliable pressure across hose reel and sprinkler pipelines for buildings requiring dependable fire protection infrastructure. At its core is a Corde™ vertical multistage centrifugal pump, available in cast iron or stainless steel construction, chosen for its superior hydraulic performance and long service life under continuous demand.

The complete system is mounted on a common pressed steel skid base, fitted with valves and stainless steel or copper pipe stubs to provide a single suction and single discharge point for straightforward on-site connection. A hydro-pneumatic pressure draw-off tank maintains pipeline pressure between pump cycles, while the fixed speed pump and pressure switch are pre-wired to a Pyrokos Single Pump Fire Jacking Pump Controller, housing all starting and alarm equipment for fully automatic operation.

KEY FEATURES

- Vertical Multistage Pump for Superior Hydraulic Performance and Durability
- Plug and Play Setup
- Compact Design for Easy Installation
- Automatic Pressure Switch Activation
- Pre-Wired Pyrokos Single Pump Fire Jacking Pump Controller
- Common Skid Base with Single Suction and Discharge Points

PRODUCT APPLICATIONS

- Sprinkler System Jacking Pumps
- Hose Reel Pressure Systems



CONSTRUCTION AND COMPONENTS

Every Fire Hose Reel Pressure System is built from proven, industry standard componentry, selected and configured to deliver dependable pressure boosting with minimal maintenance, including:

- CORDE Vertical Multistage Pump
- Cast Iron or Stainless Steel Options
- Pressed Steel Skid Base
- Pyrokos Fire Jacking Pump Controller

Together, these components combine hydraulic performance with long term reliability, giving you a pressure system built to perform with minimal upkeep.



Fire Hose Reel Pressure System with pump and draw-off tank fully assembled.

HDA 65 Hydrant Test Assembly

Calibrated Flow and Pressure Testing for Fire Hydrant Systems

The Allied Pumps HDA 65 Hydrant Test Assembly is a calibrated, on-site test unit designed for high accuracy flow and pressure testing of fire and water mains. With the onus on designers to confirm exact mains capability, this instrument gives engineers and technicians the exacting data needed to establish equipment requirements with confidence.

Featuring NATA calibrated instrumentation, a 0 to 1600 kPa glycerine filled gauge and digital flow readings displayed instantly alongside calculated values, the HDA 65 delivers fast, reliable results with minimal site disruption.

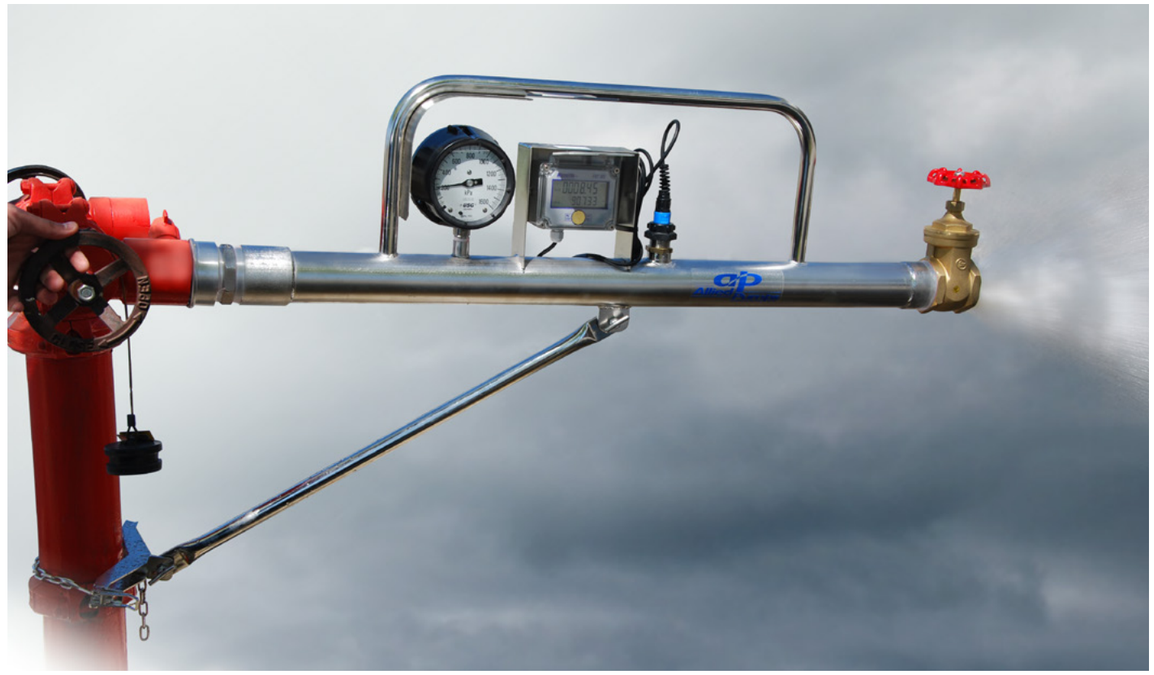
Robust stainless steel construction ensures extended service life, while quick on-site assembly and simplified test procedures make it suited to both street hydrant and building hydrant testing.

KEY FEATURES

- Adjustable Flow Test
- Fully Portable and Battery Operated
- Lightweight Design
- Swivel Head Discharge
- Calibratable Test Instruments
- High Accuracy Readings
- Easy to Read Instrumentation
- Supplied with Initial Calibration Certificate

PRODUCT APPLICATIONS

- Fire Main Flow and Pressure Testing
- Street Hydrant Testing
- Building Hydrant Testing
- Compliance and Certification Testing
- On-Site Mains Capability Assessment



CALIBRATION AND COMPLIANCE

Every Allied Pumps HDA 65 arrives pre-calibrated at a NATA accredited facility, with certificates issued at the point of supply. To maintain long term accuracy, Allied Pumps can coordinate scheduled yearly re-calibrations, giving asset owners ongoing confidence in test results without the need to source calibration services independently. As testing directly affects live infrastructure, approval from relevant authorities may be required prior to conducting flow tests on street mains.

PRODUCT SPECIFICATION

Parameter	Values
Pressure Gauge Range	0 to 1600 kPa
Gauge Type	Glycerine Filled
Flow Reading	Digital, Instant and Calculated
Construction	Stainless Steel



Optional heavy duty padded carry bag, available for safe transport and storage of the HDA 65 test assembly.

FIRE PROTECTION SYSTEMS

Pyrokos Fire Pump Controller

Reliable Pressure Boosting for Hose Reel and Sprinkler Systems

The Pyrokos Pump Controller delivers superior fire pump management and monitoring, built in compliance with AS2941-2013 including engine overspeed shutdown, low engine temperature and low oil pressure protection. Backed by decades of fire pump industry experience, it offers exceptional reliability, simple operation in both emergency and test conditions, and an unparalleled event log for maximum interface flexibility.

The Pyrokos brings this capability to a purpose built diesel fire pump interface, with an intuitive touchscreen layout that reduces training time and simplifies day to day operation without compromising on detailed system monitoring.

KEY FEATURES

- Compliant with AS2941-2013
- Fault History Recording
- Superior Pump Management
- Simple Operation
- Precision Accuracy
- Increased System Reliability
- Ultimate Control Flexibility
- Cost Effective
- Easy to Read System Status

PRODUCT APPLICATIONS

- Fire Pump Set Control and Monitoring
- Emergency and Test Condition Operation
- Sites Requiring AS2941 Compliant Systems
- Facilities Needing Detailed Event Logging



COMPLIANCE AND RELIABILITY

The Pyrokos Pump Controller is built to the strict bounds of AS2941, while going well beyond the standard's baseline requirements in self protection and system monitoring. This extra layer of protection reflects decades of association with the fire pump industry, translating hard won field experience into a controller engineers and site managers can depend on, including:

- Exceeds AS2941 Requirements in Self Protection and System Monitoring
- Decades of Fire Pump Industry Experience Behind Its Design
- Engine Overspeed Shutdown Protection
- Low Engine Temperature Monitoring
- Low Oil Pressure Monitoring



The Pyrokos features a full colour touchscreen interface for fast, at a glance access to system status and engine instrumentation.

FIRE PROTECTION SYSTEMS

Levikos Tank Controller

Allied Pumps' Levikos Tank Controllers provide reliable level monitoring across fire, stormwater, potable water, sewage and effluent applications. Available in a range of configurations to suit varying site requirements, from precision transducer based systems to simplified floatswitch alternatives, LEVIKOS controllers are built for commercial, industrial, municipal and domestic installations.



PRODUCT SPECIFICATIONS

Features	Levikos M18 (Model 1)	Levikos MM350 (Model 2)
Detection Method	Ultrasonic or Pressure Transducer	Floatswitch
Level Reading	Configurable Digital Percentage Display	Empty, Half and Full Only
Tank Configuration	Single or Dual Tank	Single or Dual Tank
Enclosure Material	Powder Coated Steel, Aluminium or Stainless	Plastic
Voltage Options	Standard	240Vac or 12/24Vac Low Voltage
Remote Monitoring	Modbus RTU or Ethernet TCP/IP Available	Volt Free Contacts Only
Monitoring Depth	Up to 10m	Not Applicable
Ideal For	Precision Monitoring and Remote Integration	Simplified, Cost Effective Applications

ORDERING INFORMATION

The LEVIKOS M18 is available in single or dual tank configurations, with optional Ethernet TCP/IP or Serial MODBUS RTU communication for remote monitoring integration.

The LEVIKOS MM350 is available in standard or low voltage (12/24Vac) versions, each offered as single or dual tank configurations.



KEY FEATURES

- Configurable Digital or Floatswitch Level Detection
- System Status and Fault Display in a User Friendly Design
- Suitable for a Wide Range of Liquids and Applications
- User Friendly Operation with Audible Alarm Mute
- Volt Free Contacts Available for Remote Monitoring
- Pre-Programmed Default Settings to Simplify Set Up

PRODUCT APPLICATIONS

- Fire Tank Level Monitoring
- Stormwater Tank Monitoring
- Potable Water Tank Monitoring
- Sewage and Effluent Tank Monitoring
- Commercial, Industrial, Municipal and Domestic Sites

Fire Protection System Accessories



Autocoupling Pedestal Mount System



Level Detection Sensors



Guide Rail / Chain / Shackles



Mixers



Odour Vent Filters



Well Washers



Premium Safety Access Cover

FIRE PROTECTION SYSTEMS

Case Study: Perth City Link Busport

Perth, WA



The Project

The Perth City Link Busport reconnects Northbridge with the city centre for the first time in over a century, extending from Perth Station through to the new Perth Arena. As an underground bus terminal, the facility required significant fire water storage, with the risk of a bus catching alight driving the level of protection.

The Challenge

The design engineer faced substantial difficulty achieving sufficient fire water storage within an underground terminal. The incoming water supply, which determines the storage volume required, was unknown at the outset, and any change to it during design would demand larger fire pumps and larger tanks. The plant room could not be expanded to accommodate them. The control room was underground, the ceiling height was low, and everything specified had to be installed within those confines.

Our Approach

We were involved from the beginning, advising the hydraulic and fire consultants rather than waiting for a specification to quote against. Drawing on the knowledge within the team, we analysed the minimum space requirements, the dimensions of every piece of equipment and the design calculations, then gave our draftsman a clear set of constraints to work within. From there we redesigned the room layout, the pump skid and the tank dimensions together until everything fitted.

The Solution

The solution was a dual diesel fire protection pumpset with suction and discharge manifolds, combined with dual rectangular steel liner panel tanks. Rectangular tanks made better use of the available floor area than a conventional arrangement would have. We manufactured the complete skid at our production facility so it could be tested at our own test bay, then disassembled it for transport, craned it through a tunnel of restricted ceiling height and reassembled on site.

The Outcome

The tanks and fire pumps were installed successfully, and the redesigned layout left sufficient space around the equipment for maintenance access to be achieved properly rather than compromised to fit. That matters over the life of a facility tested regularly under its maintenance obligations, where working room cannot be added later. If the busport ever needs its fire protection, a well designed system is waiting.

Why it mattered?

- ✓ Early involvement with the consultants allowed the constraints to be designed around rather than discovered late.
- ✓ Redesigning the layout, skid and tanks together fitted a full system into a plant room that could not be expanded.

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