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Allied Pumps

SUBMERSIBLE PUMPING STATIONS

Undersink Sullage Chamber

The Allied Pumps Undersink Sullage Chamber removes sink and basin waste where gravity discharge is not feasible, typically in kitchenettes, tea preparation areas, wash areas and basements. The 50mm inlet and 25mm or 32mm discharge sit on one face, and the unit plugs into a standard outlet, a single trade installation. Pump options handle waste quietly.





MODEL SELECTION

The USC40 suits tight spaces and less demanding duties. The USC70 handles high use applications, including greasy and fatty wastes. Both fit a standard undersink cupboard and need 200mm above the lid for maintenance access, plus side clearance for the alarm panel. Six pump options cover heads to 15.5m, so select on duty as follows:

- USC40: serves up to 30 occupants with one dishwasher. 415 x 315 x 320mm, 150mm panel clearance
- USC70: serves up to 80 occupants with two dishwashers. 465 x 415 x 446mm, 200mm panel clearance

PRODUCT SPECIFICATIONS

Model No.	Product Code	Pump	Maximum Solids Handling	Maximum Head	Voltage / kW
USC40H	PN002000C	HV32.018.1A.2	20mm	7.0 m	240 V / 0.18 kW
USC40H/LA	PN002005C	HV32.018.1A.2	20mm	7.0 m	240 V / 0.18 kW
USC70H	PN002010C	HV32.04.1A.2	20mm	9.2 m	240 V / 0.4 kW
USC70H/V075	PN002015C	HV50.075.1A.2	35mm	13 m	240 V / 0.75 kW
USC70H/VS075	PN002020C	HVS50.075.1A.2	35mm	13 m	240 V / 0.75 kW
USC70H/D075	PN002025C	HD50.075.1A.2	10mm	15.5 m	240 V / 0.75 kW

KEY FEATURES

- WaterMark Certified to WMTS 106:2019
- Durable Stainless Steel Tank
- 240 V Pump Options for Solids and Fibres
- Supplied Fully Assembled, Connections on One Face
- Single Trade Plug In Installation
- Odour Filter and Anti-Flood Valve Included
- Audible and Visual High Level Alarm
- Voltage Free Alarm Output for BMS

PRODUCT APPLICATIONS

- Kitchenettes and Tea Preparation Areas
- Wash Areas
- Basements
- Office Pantries and Breakrooms
- Restaurants and Commercial Kitchens

SUBMERSIBLE PUMPING STATIONS

RPB 800 Pump Package

Low flow wastewater pumping, above or below ground

The Allied Pumps RPB 800 Wastewater Pump Package pairs a lightweight polyethylene chamber with heavy duty submersible pumps to handle raw sewage, effluent and industrial waste at low flow rates. It installs above or below ground, making it well suited to transportable buildings, basements and space-limited sites.

Pumps are available in single or dual configuration, with check valve and isolating valves internally pre-plumbed for straightforward on-site access. Sewage pumps are constructed from cast iron with heat hardened cutting mechanisms. Control is provided by KWIKSTART Logikos M7 Control Systems.

KEY FEATURES

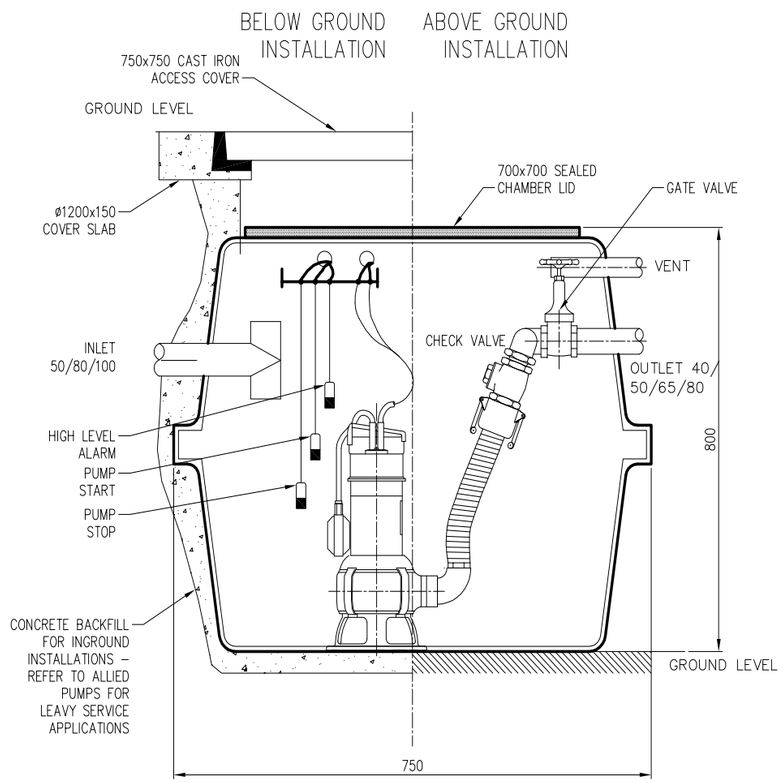
- Robust, Lightweight Polyethylene Chamber
- Compact and Heavy Duty Submersible Pumps
- Suits Raw Sewage and Industrial Waste
- Grinder Pumps (separate level probes and pump controller required)
- Range of Construction Options and Solids Handling Capabilities
- KWIKSTART Logikos M7 Control System
- Check Valve and Isolating Valves Internally Pre-plumbed
- Cast Iron Sewage Pumps With Heat Hardened Cutting Mechanisms

PRODUCT OPTIONS

- Single or Dual Pump Configuration
- Above Ground or Below Ground Installation
- Cutter Pumps, Automatic or Manual
- Low Voltage Control System
- Ultrasonic or Pressure Sensor Level Control
- Aluminium or Stainless Steel Cubicle
- Hour Run Log
- Provision for Power Authority Metering
- Provision for Alarm Dialling Facility



PRODUCT DIMENSIONS



SUBMERSIBLE PUMPING STATIONS

Compact Submersible Package Pump Station

The Allied Pumps Compact Submersible Package Pump Station pairs a lightweight, chemically resistant fibreglass chamber with a 240 Vac automatic wastewater pump. Each unit arrives fully pre-plumbed with flexible hose, disconnection coupling, check valve and isolating valve. Three chamber sizes are available, and holes for vents, inlets and conduit entries can be cut on site.



PRODUCT SPECIFICATION

Model No.	SKU No.	Chamber Capacity	Dimensions	Solids Handling Capacity	Pump Duty	KW	AMPS	Max. Inlet Invert
FPT900-M32-IHL	KA195100C	250L	600mmØ x 900mm	30mm*	2 L/sec @ 6m	0.54	3.6	300mm
FPT900-M50-IHL	KA195110C	250L	600mmØ x 900mm	40mm*	4 L/sec @ 8m	1.45	9.0	300mm
FPD1000-M32-IHL	KA195130C	700L	1000mmØ x 1000mm	30mm*	2 L/sec @ 6m	0.54	3.6	400mm
FPD1000-M50-IHL	KA195140C	700L	1000mmØ x 1000mm	40mm*	4 L/sec @ 8m	1.45	9.0	400mm
FPD1000-G41-IHL	KA195155C	700L	1000mmØ x 1000mm	Grinder^	2 L/sec @ 12m	1.0	5.7	400mm
FPD1500-M32-IHL	KA195180C	1080L	1000mmØ x 1500mm	30mm*	2 L/sec @ 6m	0.54	3.6	900mm
FPD1500-M50-IHL	KA195185C	1080L	1000mmØ x 1500mm	40mm*	4 L/sec @ 8m	1.45	9.0	900mm
FPD1500-G41-IHL	KA195175C	1080L	1000mmØ x 1500mm	Grinder^	2 L/sec @ 12m	1.0	5.7	900mm

Voltage for all models is 240 Vac. (*) indicates stormwater, (^) indicates sewage.

PACKAGE INCLUSIONS



600mmØ Class B Cast Iron Cover, Class D Upgrade Available



Automatic Wastewater Pump, Pre-Plumbed With Valves



Kwikalarm K124 High Level Alarm

KEY FEATURES

- Lightweight Fibreglass Chamber
- Chemically Resistant and Corrosion Free
- Supplied Fully Pre-Plumbed
- Solids Handling to 40mm, or Grinder

PRODUCT APPLICATIONS

- Domestic Sewage and Septic Effluent
- Stormwater
- Sub-Soil and Condensate Drainage
- Industrial Waste

SUBMERSIBLE PUMPING STATIONS

Fibreglass Package Pump Station

Allied Pumps Fibreglass Package Pump Stations are designed for applications requiring corrosion and chemical resistance in a light weight yet robust pit. Fully engineered to handle ground pressures without external support, they suit sites with limited cranage access and prove cost effective where larger pumps or greater storage are needed. Sizes range to 3000mm diameter.



PRODUCT SPECIFICATION

Series No.	Internal Diameter	Internal Minimum Depth	Internal Valve Diameter	Increment Sizes	Minimum Pit Capacity	Extra Meter Capacity	Maximum Pipework Size	Cast Iron or Aluminium Cover
FPT	600mm	600mm	N/A	300mm	160L	280L	50mm	✓
FPD	1000mm	1000mm	N/A	600mm	700L	700L	50mm	✓
FPS	1200mm	1000mm	600mm	500mm	1100L	1100L	65mm	✓
FPM	1800mm	2000mm	1000mm	500mm	4500L	2600L	150mm	✓
FPL	2200mm	2000mm	1200mm	500mm	7000L	3800L	200mm	✓
FPG	3000mm	2000mm	1500mm	500mm	14000L	7000L	600mm	✓



OPTIONAL ACCESSORIES

1. Safety Grate - making maintenance safer and easier
2. Auto Well Washers - auto station cleaning
3. Vent filters - reduce nuisance odour
4. Ballcheck valves - reduce blockage potential
5. Flow metering - monitor station usage
6. Ladders - improved access
7. Flow monitor - assess pump efficiency
8. Lifting arm socket - simplify maintenance procedure
9. Internal coatings - for aggressive media
10. Permanent ventilation system - eliminate dangerous gases

KEY FEATURES

- Lightweight and Easily Handled
- Trafficable
- Excellent Corrosion and Chemical Resistance
- Internal Valve Chamber

PRODUCT APPLICATIONS

- Sewage and Wastewater Transfer
- Trade Waste and Industrial Effluent
- Stormwater and Drainage
- High Volume and Deep Pit installations

SUBMERSIBLE PUMPING STATIONS

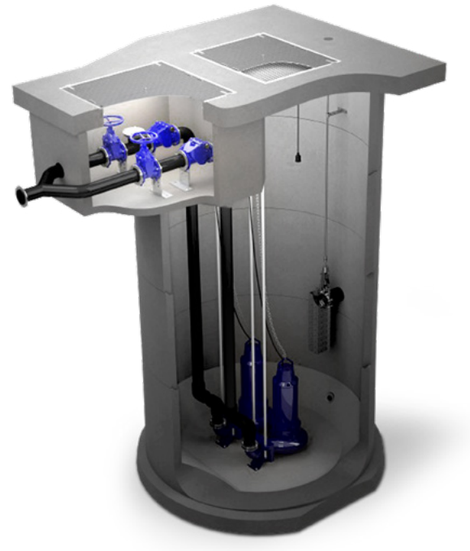
Precast Concrete Package Pump Station

Allied Pumps Precast Concrete Package Pump Stations suit multi-dwelling residential, commercial and industrial developments and common effluent schemes where twin pumps or larger storage volumes are required. The mould formed chamber is 50 MPa high strength concrete with sulphate resistant cement, giving a smooth, impervious finish and superior resistance to corrosive liquids and aggressive mediums.



PRODUCT SPECIFICATIONS

Parameters	Model Type			
	PPS	PPM	PPL	PPG
Internal Diameter (mm)	1200ø	1800ø	2250ø	3200ø
Wall Thickness (mm)	100	100	115	120
Minimum Chamber Depth (m)	1.2	2.0	2.0	2.0
Maximum Chamber Depth (mm)	5.0	10.0	10.0	10.0
Extension Increments (mm)	300	250	250	250
Minimum Increment (mm)	300	300	300	500
Valve Chamber (m)	-	1.2 x 1.2	1.5 x 1.5	2.2 x 1.8
Capacity at Minimum Depth (L)	1700	4500	7000	14000
Capacity per Extra Meter (L)	1450	2600	4000	8000
Maximum Pipework (mm)	100	150	200	300



KEY FEATURES

- 50 MPa High Strength Concrete
- Sulphate Resistant Cement
- Greater Wall Thickness
- Smooth Internal Finish to AS1510
- 56° Self Cleaning Sludge Batter
- Integral Valve Chamber
- Internal Lifting Points
- Eliminates Confined Space Entry

PRODUCT OPTIONS

- Twin or Single Pumps
- Cast Iron or Aluminium Covers
- Extended Cover Slab for Controller or Vent Mounting
- Internal Coatings for Aggressive Media
- Calcareous Aggregate or Linings
- Fully Sealed Internal Valve Chamber
- Chamber Depths to 10m

SUBMERSIBLE PUMPING STATIONS

Package Municipal Type Pump Station

Total package pump stations for municipal authorities

Allied Pumps Package Municipal Type Pump Stations offer a total package solution for temporary and permanent municipal requirements. Precast concrete pits are available in 1800mm, 2250mm and 3200mm diameters, completely fitted out with authority specification accessories including pipework, valves, ladders, guide rails, mounts, chains and valve chamber drain.

Stations are supplied with Grundfos, Sulzer or Corde pumps, with other authority approved options available on request. Every station is fully engineered as a dedicated in-ground pump station, with a totally sealed integral valve chamber accessed through a cast iron cover integrated into the precast cover slab.

One supplier, one responsibility. Coordinated equipment and a single point of supply simplify specifying, tendering and ordering, reduce site works and remove the shared responsibility difficulties of conventionally built stations. The result is a more economical station and significantly less installation time and effort.

KEY FEATURES

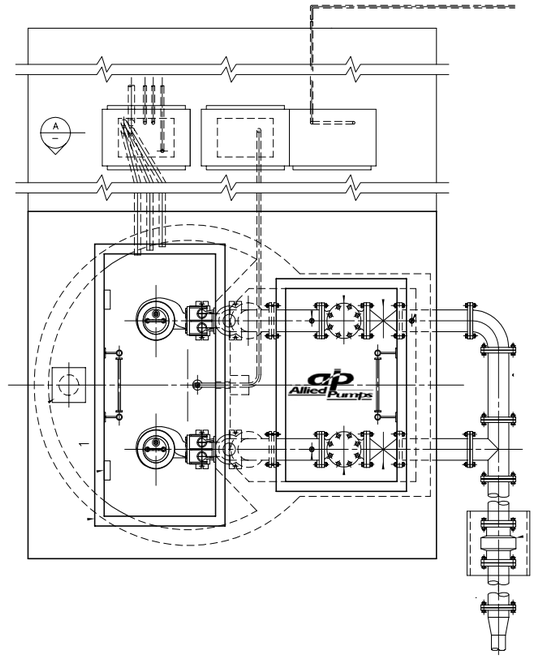
- Totally Sealed Integral Valve Chamber
- One Piece Base, High Strength and Water Tight
- Steel Trowel Smooth Finish to AS3610 Class 2X
- Calcareous Aggregate and Sulphate Resistant Cement
- Modular Design With Steep Sludge Batter and Shaped Floor
- Stainless Steel Internal Swift Lift Points
- Corrosion Resistant HDPE Pipework
- Fully Engineered as a Dedicated In-Ground Station

PRODUCT APPLICATIONS

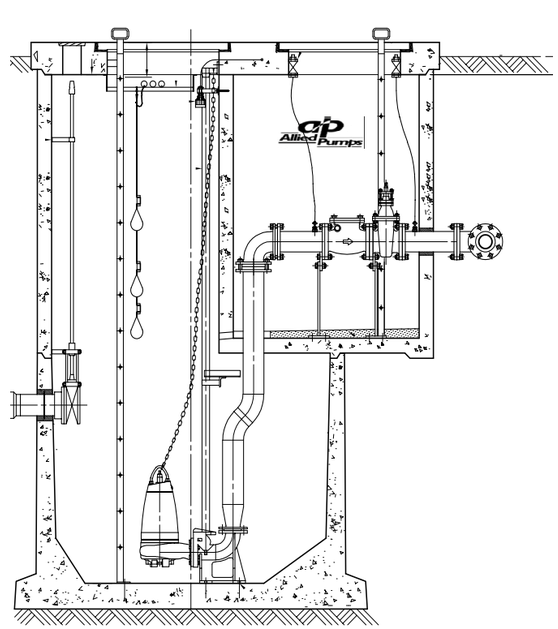
- Subdivisions
- Water Authority Temporary and Permanent Stations
- Townships and Remote Communities
- Council Stormwater Stations



TYPICAL ARRANGEMENT



Plan View



Cross Section of Pumping Station

Kwikstart Logikos M7 Controller

Purpose built pump control, protection and diagnostics

The Logikos M7 is purpose designed as a dedicated pump management system, combining precision control, pump protection and diagnostics in one unit. It suits installations across sewage, effluent, stormwater and potable water transfer.

Operational modes are configurable for tank fill or tank empty, with one or two pumps, in alternating single pump or dual pump operation. Level inputs accept float, probe, ultrasonic or pressure transducer signals.

The M7 can be mounted on an internal door or built into a powder coated steel waterproof enclosure, a custom aluminium or stainless enclosure, or a full municipal pump control centre. Modbus communication and alarm dialler systems are available.

KEY FEATURES

- Digital Liquid Level Display
- Text Fault Displays With Current and Previous Alarms
- PIN Protected Configuration Menus

PRODUCT APPLICATIONS

- Commercial and Industrial Stations
- Municipal Pump Control Centres
- Domestic Installations
- Sewage, Stormwater and Potable Water Transfer

DISPLAY AND OPERATION

- Two Line Back-Lit Text Display
- Push Button Alarm Reset and Pump Operation
- Adjustable Probe and Float Switch Sensitivity
- Controller ID Numbering for Site Identification



PUMP PROTECTION AND DIAGNOSTICS

The M7 guards against the faults that take stations offline. Supply, motor condition and pump behaviour are monitored continuously, with automatic shutdown or changeover the moment a fault is detected. Run data is logged throughout, giving a clear picture of station health over time:

- Three Phase Supply Monitoring
- Anti-Cycle Start Limiting
- Dry Run Protection
- Pump and Reflux Choke Protection
- Automatic Changeover on Fault
- Service Indication and Run Logging

The result is a station that protects itself. Faults are contained before they cause damage, and the run record tells operators exactly where to look when service is due.



Logikos M7 shown in a pedestal mounted sewage pump controller enclosure.

SUBMERSIBLE PUMPING STATIONS

High Level Alarm Panels

Level alarm warning for tanks, pits and bunded areas

Allied Pumps High Level Alarm Panels provide level alarm warning for septic tanks, water storage tanks, sump pumps and dump pits. Every panel gives a red indicator light and a 98dB beeper with mute button, runs on a 240V 10 amp GPO supply, and uses low voltage float switches with a cable and plug for connection to a standard outlet.

Panels are available for single or dual tank monitoring, with high level or combined high and low level alarms. Enclosures range from IP44 rated plastic to IP65 rated powdercoated steel, and a solenoid option is available to close on high level.

KEY FEATURES

- Audible and Visual Alarms
- Alarm Mute Button
- Low Voltage Float Level Control
- Plug In Power Supply
- Simple and Quick Installation
- Weatherproof to IP65
- Plastic or Powdercoated Steel Enclosures

PRODUCT APPLICATIONS

- Pump Pits and Dump Tanks
- Septic Tanks
- Water Supply Storage
- Flood Protection and Bunded Areas

PRODUCT SPECIFICATION

Seven models cover single and dual tank duties, from a compact plastic panel for straightforward pit monitoring through to IP65 steel enclosures with high and low level alarms and solenoid control. Select by tank count, alarm levels and enclosure rating.

Product	Size	Rating	Enclosure	No. of Tanks	Alarm Levels
K124 Alarm Panel	170 x 140 x 100mm	Weatherproof IP44	Plastic	Single	High
K124 Alarm Panel	200 x 300 x 150mm	Weatherproof IP65	Powdercoated Steel	Single	High
K124 Alarm Panel	400 x 400 x 200mm	Weatherproof IP65	Powdercoated Steel	Dual	High
K134M	400 x 400 x 200mm	Weatherproof IP65	Powdercoated Steel	Single	High and Low
K134M-S *	400 x 400 x 200mm	Weatherproof IP65	Powdercoated Steel	Single	High and Low
K234M	400 x 400 x 200mm	Weatherproof IP65	Powdercoated Steel	Dual	High and Low
K234M-S *	400 x 400 x 200mm	Weatherproof IP65	Powdercoated Steel	Dual	High and Low

** Includes 25mm BSP solenoid supplyed loose. Solenoid to close on high level.*



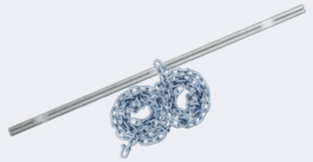
Submersible Pumping Station Accessories



Autocoupling Pedestal Mount System



Level Detection Sensors



Guide Rail / Chain / Shackles



Mixers



Odour Vent Filters



Well Washers



Premium Safety Access Cover



Marke Valves

SUBMERSIBLE PUMPING STATIONS

Case Study: Good Fortune Roast Duck House

Northbridge, WA



The Project

Situated in the heart of bustling Northbridge, Good Fortune Roast Duck House is surrounded by a dense district of vibrant restaurants, bars and shops. The tight laneways that define this thriving hospitality precinct also make it one of the most difficult parts of the city to build in, posing major logistical challenges for construction work and daily deliveries alike.

The Challenge

Site access was severely limited. The concrete liner wet wells for the wastewater pump station weighed seven tonnes, well beyond what could be handled by conventional delivery vehicles in a laneway of that width. The surrounding businesses had also restricted major deliveries to weekends only, adding a timing constraint to an already awkward site and leaving a narrow window in which the work had to be completed.

Our Approach

The commercial plumber on the redevelopment approached us for a price, and raised concerns about whether delivery and installation were even possible. Rather than quote from drawings, we visited the site with the client and conducted a thorough inspection. We assessed all available access points, took measurements of every item to be delivered, and worked through the options together until both parties understood exactly how the installation would fit together and what it would take to get the equipment in place.

The Solution

We contacted several logistics companies and secured a specialised vehicle able to gain access to the site despite the constraints, positioning the load as close to the intended installation point as possible. The vehicle carried a compact rear-mount crane, allowing the seven tonne liner to be lifted safely and accurately within a very confined space, without the need for additional plant or temporary works.

The Outcome

Delivery was arranged for early on a Saturday morning, ahead of other suppliers competing for the same limited access window. Our team attended on site to oversee the lift from start to finish. The station was manoeuvred into position within the confines of the site and the time available, surrounding businesses continued trading unaffected, and the client has a station installed correctly the first time.

Why it mattered?

- ✓ Inspecting the site before quoting removed the risk of a failed delivery on the day.
- ✓ Specialised transport and a rear-mount crane solved access without any additional site works.

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PERTH I ALBANY I KALGOORLIE I DARWIN I SYDNEY I MELBOURNE

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