

# WYKAMOL AQUA PUMP KIT



control water ingress. The system consists of a pre-formed polyethylene sump basin, a mains powered 240v submersible pump, a non-return valve assembly and a battery operated high water level alarm, which is linked to an integral float switch. **The WYKAMOL AQUA PUMP** system can be used to de-water the ground or additionally linked to **WYKAMOL AQUA CHANNEL** (see WYKAMOL Aqua Channel Data) relieving water ingress from retaining walls and in turn pumping out to a suitable drainage point.

## COMPONENTS

**SUMP BASIN** – The Sump Basin is a polyethylene pre-formed chamber with a series of perforations around its perimeter. These perforations relieve ground water pressure, allowing easy access for water to flow into the sump, alternatively a sealed sump basin is available. The Sump Basin is 560mm high x 460mm diameter and is most commonly located into the floor, finishing flush with the surrounding floor level. The Sump Basin is supplied with a structural foam flat lid, which can accept foot traffic. The lid can be easily removed to allow regular maintenance of the internal submersible pump or pumps.

**SUBMERSIBLE PUMP** – The pump is positioned within the Sump Basin and is controlled by an automatic integral float switch. As the water level increases within the sump the integral float rises and when the pre-set switch level is reached the pump will automatically operate and discharge the water. The Pump is 240v and requires wiring into a fused spur outlet within 1.5m of the pump.

**NON-RETURN VALVE ASSEMBLY** – To avoid any discharged water backing-up into the sump basin, a non-return valve assembly is provided.

This is fitted directly to the submersible pump outlet via flexible couplings and supplied ready to accept a standard 1" waste pipe. The non-return assembly has easy access for cleaning the internal valve.

**HIGH WATER LEVEL ALARM** – The High Water Level Alarm is an essential component within the Aqua Pump system. In the event of mechanical failure of the pump or an unexpected power failure, the water will continue to fill the sump. When the water reaches the level of the alarm float switch, the 80db alarm will sound, giving warning of the failure. The alarm is powered by a 9v battery, which should be positioned in a convenient location such as a kitchen/lounge where it will be easily heard. Once the alarm is heard immediate action must be taken to avoid flooding. Additionally a 12v battery operated pump can be installed offering peace of mind to the client, while investigations are made into the failure. See Wykamol Battery Back-up Pump System data.

## DESCRIPTION AND USE

When installing WYKAMOL Cavity Drainage membranes careful attention must be given to provide a suitable drainage solution. Natural drainage is not normally possible or convenient in below ground situations, so mechanical drainage must be used.

**WYKAMOL AQUA PUMP** is a ready to use complete water control system principally designed for use in below ground structures to

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