

AUTOMATIC LEVEL REGULATION UNITS KWT® Syphon unit type: KHU

Application

The KWT automatic siphons are mainly be used in surface water systems but some may also be used in purification applications. They are an ideal way of moving large volumes of water quickly, in most cases without the use of electricity.

Operation

Various methods of control can be used to ensure that the siphon unit can be adjusted invariably to ensure the best level control. We use three different control types:

1. Natural siphon on weir.

The siphon unit is suspended over a fixed (existing) weir set at the desired cut-off height. A mechanical control system ensures that it is switched on and off.

2. Vacuum pump.

The siphon unit is suspended over a water-retaining wall (without breaking this wall). The siphon can now be triggered manually or automatically using a vacuum pump (electrics are required).

3. Venturi system.

A venturi system developed by KWT (does not require electrics) can be used to automatically control flows. A trickle flow from the high to the low side is connected to a venturi linked to the siphon. A vacuum is created in the siphon after which water transfer takes place.

All 3 controls can be operated locally, however using a vacuum pump the siphon can also be controlled remotely.

The Siphon can be used with only a level difference of a few centimetres, as a water discharge and/or water supply system. The siphon can process very large quantities of water (2,500 litres per second is not an exception) even though KWT has managed to keep the construction "small".

KWT uses HDPE (High Density Polyethylene) as a construction material which is a high quality plastic with a very high chemical and UV resistance, and a long life cycle. The construction is not only compact but also light-weight due to the materials used.

Benefits

Transfers large volumes at high speed.

Easy to install over a water-retaining structure.

Can also be easily fitted into an existing situation.

Insensitive to floating dirt.

Very low maintenance costs and long life cycle.

Flow rate registration or control at a later stage is possible.



Specifications

Dimensions	Passage width:	300 mm to 1,000 mm
	Passage height:	300 mm to 500 mm

The siphon is and will continue to be a customised product, which is calculated for every application. We have a wide range of experience with this system, and are happy to assist with specifications when required.

Materials

Construction: HDPE

Hinges: SS16



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