



ELIQUO | HYDROK

Raw Water Intake Screen™

Efficient, controlled self cleaning RWIS system



Raw Water Intake Screens

THE ELIQUO HYDROK RWIS™ HAS BEEN DEVELOPED BY THE DESIGN, ENGINEERING AND MANUFACTURING TEAMS BASED ON THEIR VAST EXPERIENCE OF SCREENING TECHNOLOGIES UTILISING THEIR YEARS OF EXPERIENCE DESIGNING AND MANUFACTURING CSO SCREENS.



Progressive velocity flow,
dual action screen purging
technology.



BESPOKE MANUFACTURING

A growing requirement for stricter clean water screening and for fish protection for water extraction from reservoirs and rivers for use as drinking water has led to development of highly flexible and adaptable screen designs that are able to match the consent requirement of different raw water sources. The **RWIS** wedge wire screens can be made to fit the consent requirement from 2 mm to 10 mm or as required and are manufactured in the UK at our own factory, offering a bespoke raw water extraction solution to meet the specified demand of each specific water source.

THE PROGRESSIVE VELOCITY FLOW DISTRIBUTOR™ (PVFD™)

All raw water intake screens are prone to clogging with water source debris and aquatic life which needs to be addressed to maintain the operational functionality of the screen. The wedge wire profiles will match the water consent requirement through regular purging of the screen in order to maintain the correct intake flow to the pipe work. ELIQUO HYDROK have developed an inner purging system that at pre determined intervals, or manually if needed, backwashes the intake screen through an innovative Progressive Velocity Flow Distributor which maintains the flow rate within the intake screen from the source. Developed at the in-house R&D facility and first prototyped in 2009, this patent pending design works like a colander with variable orifice sizes to meet the demand of the flow rate needed. The PVFD sits within the main intake screen and is fed by compressed air to purge the screen as required.

APPLICATIONS

[Raw water from reservoirs and rivers for WTW supply](#)

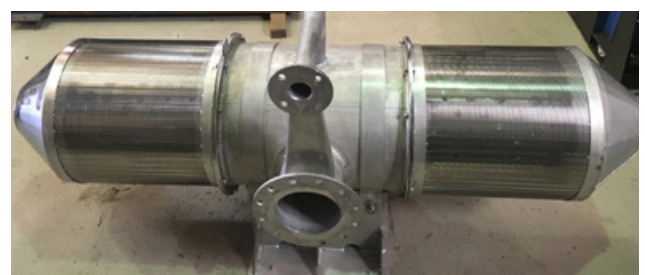
[Water supply to desalination plants](#)


[Industrial raw water supply for brewing, drinks and food processing](#)

ELIQUO HYDROK are able to offer a complete turn-key solution of the **RWIS** from bespoke design and manufacturing to installation, including the control centre technology and maintenance programmes.

DUAL ACTION SCREEN PURGING

At pre-determined intervals a controlled, calculated volume of compressed air is used to purge the screen which creates a 2 stage backwash, firstly with the displaced water within the pipe and secondly by high pressure compressed air blowing through the PVFD and removing any accumulated materials. The design team calculate the compressed air requirement and size it to suit the scheme and location accordingly. If more than one intake screen is required these can be installed in series so that each intake screen is purged in sequence to meet the water consent requirement.





Adaptable raw water intake screening solutions for
many applications.

Version 001

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