

ELIQUO | HYDROK

MecMex

Self cleaning CSO mechanical screen



MecMex

DURING TIMES OF RAINFALL THE SEWERAGE SYSTEMS WITHIN OUR NETWORKS BECOME OVERWHELMED WITH COMBINED SEWAGE AND RAIN WATER. IN ORDER TO PREVENT THE FLOODING OF THESE SEWERS, OVERFLOW WEIRS ALLOW DISCHARGE AT STRATEGIC POINTS WITHIN THE SYSTEM INTO THE WATER COURSE. THESE RECEIVING WATERS ARE PROTECTED THROUGH THE INSTALLATION OF COMBINED SEWER OVERFLOW (CSO) SCREENS. THESE SCREENS ARE DESIGNED TO PREVENT SEWAGE DEBRIS FROM PASSING OVER THE WEIR, RETAINING IT WITHIN THE SEWER.

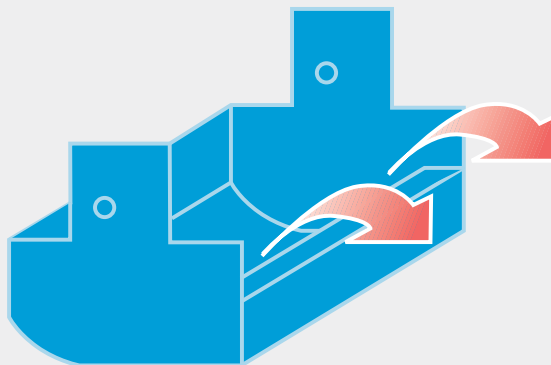


MECMEX APPLICATIONS

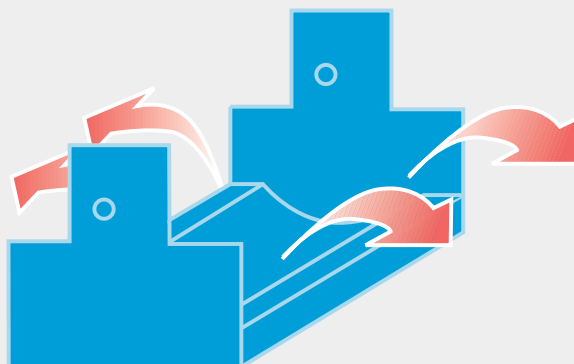
The MecMex mechanically cleaned storm overflow screen, has been developed to be located into CSO applications to retain all solids greater than 6mm x 6mm in two dimensions within the sewer network. Each screen is sized to suit the particular flow and loading requirements and is an ideal solution for chambers with transverse weirs, no continuation flows or reverse flows in the system. Each screen may also be fitted with the Hydrok lifting system providing a safe method of screen removal without the need for operator entry into the manhole chamber.

There are two models of MecMex, the 90° unit and the 180° unit. The 90° model screens are available to treat flows of up to 250L/s per linear metre and the 180° screens up to 500L/s per linear metre. Standard units start at 1m long and increase in half metre increments up to 3 metres long.

90/180° **single**

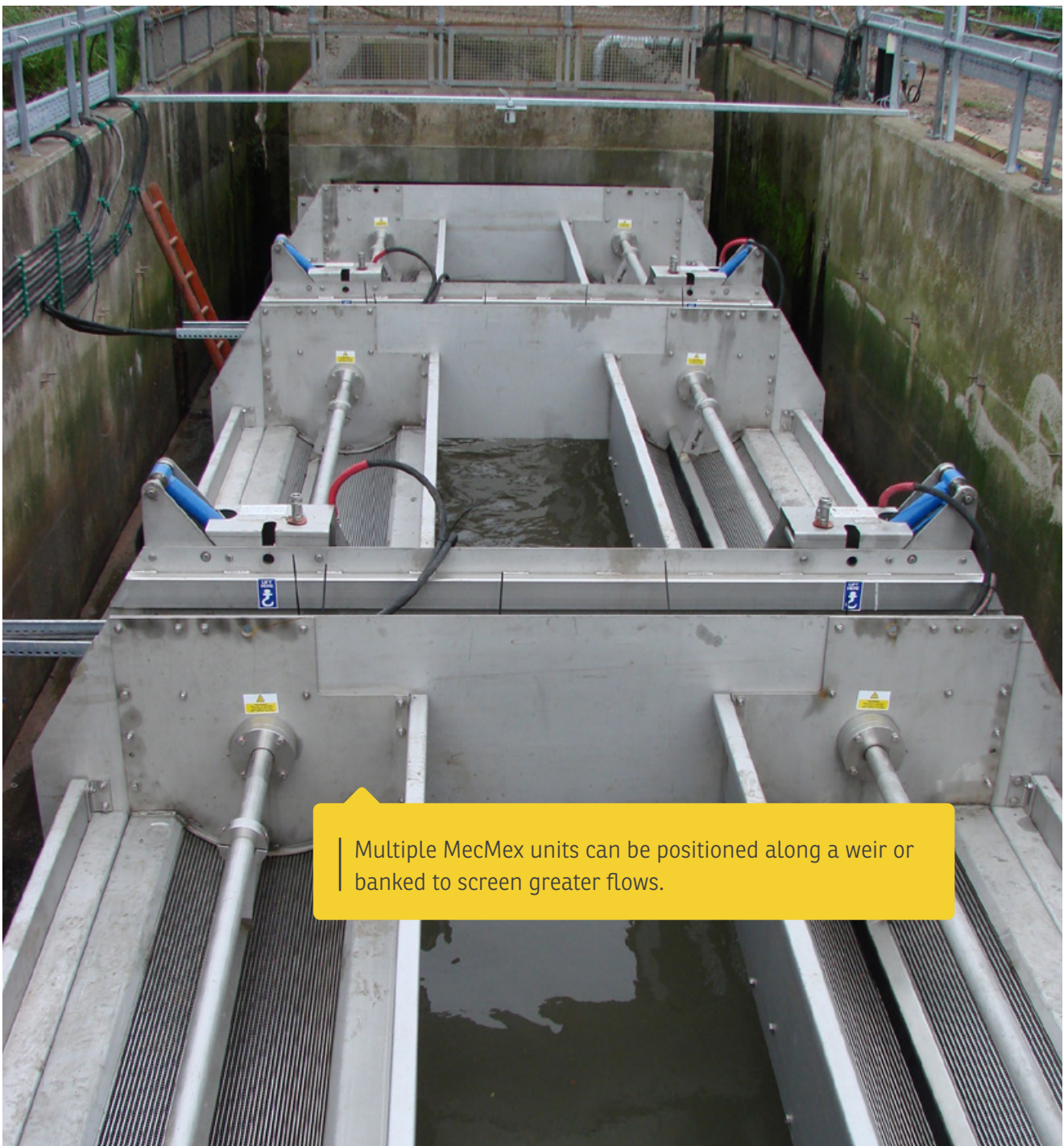


90/180° **double**



OPERATING PRINCIPLES

Every MecMex screen features the unique patented wedge wire material. The screen is configured to minimize headloss which provides tremendous benefits when upstream levels are sensitive. The MecMex screens are cleaned using opposing brushes operating on both sides of the screening surface. Screenings are continuously deposited into the continuation flow in a random fashion, eliminating the risk of large slugs of debris accumulating in any one area. Hydraulic and close coupled electrical versions are available



ADVANTAGES AND BENEFITS

Up to 1500 l/s per unit

Screens effectively to 6mm x 6mm in two dimensions

New Build or Retrofit

Single or double Sided Weirs

Close Coupled Electrical Drive

Hydraulic Drive

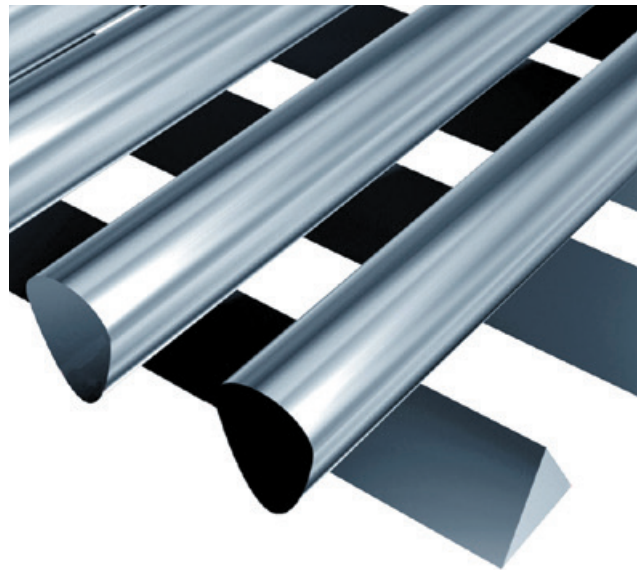
Lifting System

Package CSO option


Complete Internal CSO With Channels

Design, Supply & Install Option

Wigan Tested – Average SRV 34%



Off-site built stainless steel chambers
for ease of installation and reduced
health & safety risk



Mechanical CSO screens for retrofit, new installations
or bespoke off-site built stainless steel chambers.

Version 001

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MEMBER OF **ELIQUO WATER GROUP**