



## Technical Bulletin no 20 HYRATE Polytower Biofilters for Municipal Sewage Treatment.



Space on site was at a premium on this sewage treatment works. So the twin 24.5 m dia HYRATE Polytower biofilters, each packed with 1767 m<sup>3</sup> modular plastic media, having a surface area of 150 m<sup>2</sup>/m<sup>3</sup>, and installed to a depth of 3.6 mts, were constructed inside existing stone trickling filter shells. This enabled accommodation of an increased hydraulic and biological load to the plant within the available space.

Each filter is fitted with an HYCOVER tubular arm type power driven rotary distributor designed to apply some 45 – 55 lt/sec. The variable speed drive fitted to each machine provides a 5 : 1 turndown ratio for periodic slow speed operation to flush the media pack.

Adjustable low level ventilation panels allow full control of air flow into the filter. Apertures on each panels can be arranged to suit varying wind and temperature conditions.

For more information on the range of specialist equipment that Sewaco can provide, visit our website: [www.sewaco.co.uk](http://www.sewaco.co.uk), contact us on 01778 342202 or E.mail [info@sewaco.co.uk](mailto:info@sewaco.co.uk)