



KKWO19B Kordin Industrial
Estate
Paola PLA3000
Malta
Europe
Tel: +356 21 251 685
Fax: +356 21 239836
Email: info@tuaeng.com
Web: www.tuaeng.com

Media Filtration



Our range of filters can contain several types of media and gravel under bedding depending on the application. Our smaller systems utilise Pentair (formerly GE) and WaveCyber GRP pressure vessels, while on larger systems we use Autotrol valves.

The size of vessels and valves used as well as the type of media used will depend on the specific client application. Please let us have your requirements and we will propose the appropriate size and media.

Media Filters – particle filtration

Multi-media filtration is a proven design concept; the coarse media layers in the top of the tank trap large particles, and successively smaller particles are trapped in the finer layers of media deeper in the bed. The result is a highly efficient filtering since removal takes place throughout the entire bed. Multi-Media depth filters typically remove particles 5-15 microns in size or larger. All media included in our filters are carefully selected according to client's requirements, so the media retains its stratification during backwash and rinse. Automatic backwashing systems remove the trapped contaminants within the filter bed and wash them down the drain.

Typically we utilize a combination of gravel, quartz and anthracite in our filters

OTHER MEDIA

Apart from the removal of particles and turbidity we can use special media for specific applications.

BIRM

BIRM is used for the removal of iron and manganese. High chlorine levels in the water can damage the media.

GREENSAND

Greensand is used for the removal of soluble iron, manganese, hydrogen sulphide, arsenic and radium. High chlorine levels in the water can damage the media. Minimum pH for use of this material is 6.2

MTM

MTM is used for reducing iron, manganese, hydrogen sulphide, arsenic and radium. High chlorine levels in the water can damage the media. This media requires regeneration with KMnO_4 .

ACTIVATED CARBON

Activated carbon is used to remove contaminants and impurities, utilizing chemical adsorption. Carbon filters are most effective at removing chlorine, sediment, and volatile organic compounds (VOCs) from water.

CALCITE

Calcite is a natural crushed and screened calcium carbonate media which is used to neutralise low pH waters. Calcium carbonate is slowly dissolved into the water reducing the risk of corrosion.

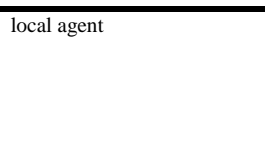
GFH

Granular ferric hydroxide (GFH) is an adsorbent material used for the selective removal of arsenic, phosphate, selenium and other heavy metals.

NOTES:

1. For smaller systems a number of vessels, valves and various media are normally available from stock.
2. Maximum vessel size in GRP is 3280mm diameter by 2150mm high.

For further information contact OUR local agent or our manufacturing facility:



TUA ENGINEERING LTD.
62 GUARDAMANGIA HILL PIETA, MALTA EU
TEL(+356) 21 25 1685 FAX (+356)2 1 239836
E-MAIL:info@tuaeng.com WEB-SITE: www.tuaeng.com

Due to ongoing developments specifications are subject to change without notice.