



# Dusenflo<sup>®</sup> Gravity Filter

**WATER TECHNOLOGIES**

## A final step towards achieving springlike water

### Features

The Dusenflo® filter makes use of the most advanced known technology for achieving high rate filtration at minimum cost. The filter can be adapted to any water condition of turbidity, colour or odour. The Dusenflo® filter makes use of a number of well-proven techniques to achieve these objectives:

- An underdrain system equipped with specially designed nozzles which allow efficient and economical air and water backwashing of the filter;
- Filter media, uniform or mixed bed, selected and sized to suit specific raw and effluent conditions;
- Valving and controls to suit the customers needs, from simple manual controls to complete automation and remote monitoring.

### Characteristics

#### • Economy

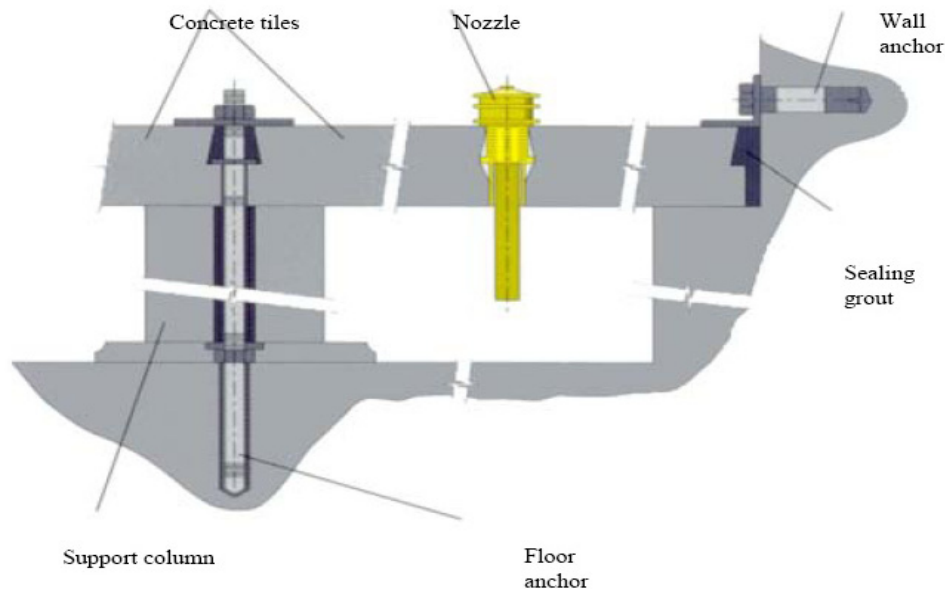
Backwashing with air and water, with the specially designed underdrain nozzles, ensures a perfectly clean filter media between cycles and reduces the required number of backwash cycles. This contributes to important savings in power and treated water consumption.

#### • Adaptability

A wide selection of media and underdrain nozzles are available and selected according to the specific treatment requirements of given water. The filter underdrain is designed to provide optimum hydraulic distribution across the filter surface while retaining the finest media particle.

#### • Water Quality

The Dusenflo® filter will consistently provide a high quality of filtered water for all water conditions. The filter is particularly effective at removing Giardia and Cryptosporidium cysts.



### How does it work

The Dusenflo® filter can be furnished with a homogeneous media, normally sand, or with a mixed bed media such as sand, anthracite or activated carbon. Water percolates downwards through the media at a flow rate of up to 30m/h (12 usgpm/sq.ft.).

#### **Uniform bed media:**

The uniform bed media consists of fine sand having an effective size of 0.9 mm. With a homogeneous media, the filter retains particulate matter progressively in depth in the media mass instead of in the layers only. Cleaning a homogeneous bed filter requires air and water simultaneous backwashing.

#### **Mixed bed media:**

Mixed bed filter are normally used when a fine media is required. The mixed bed media normally consists of a layer of fine sand, which supports an upper layer of larger particles such as anthracite. To avoid carryover of anthracite during backwashing, air backwashing or fluidizing will alternate with water backwashing according to a defined flow rate and sequence.



# Resourcing the world

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