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INITIAL FILTER SET UP

STEP BY STEP GUIDE.

PROCEDURE FOR INITIAL SOAKING OF DMI-65 FILTRATION MEDIA

Please FOLLOW the 9 steps below:

- 1 Place the DMI-65 into a filter.
Ensure a minimum bed depth is as least 600mm, 700mm or more is recommended.
A Minimum of 40% of the bed depth is required as freeboard above the DMI-65.
- 2 Fill the filter to the top with water and add Sodium Hypochlorite Solution -Chlorine (**12.5% solution**) to the water and stir-mix well (*at the recommended rate of 10 litres of sodium hypochlorite per M³ of DMI-65, or 10 ml per 1 litre of DMI-65*).
See the Calculator supplied named” (*Initial Chlorine Required for Soaking DMI-65 at Set up Stage*”)
- 3 Soak for a minimum of 30 minutes (the longer the better).
- 4 Backwash the media whilst continually injecting the solution of Sodium Hypochlorite.
(*The approximate backwash flow rate recommended being LV 30 to LV 35 m/hr*).
Ensure that the Chlorine level being injected is giving a residual chlorine level of approximately 1 ppm.
Backwash until the manganese content falls to below 0.3 ppm and the backwash water becomes clearer.
- 5 Ensure the backwash rate is sufficient to lift the media bed so that the very fine material is completely removed from the media.
(*During the initial stages of the backwash, fines will be removed and the colour of the water will be dark.*)
At the latter stages of the backwash, the water will become clearer and backwash time will vary between 20 to 40 minutes.
The time it takes for the Manganese concentration to fall to below 0.3 mg/l varies. Check this level after 20 to 40 minutes, and if it is still too high check every 30 minutes.

SERVICE MODE

- 6 When the manganese level has dropped - fallen to below 0.3 ppm in the backwash mode and the backwash water becomes clear, place the filter system into **SERVICE MODE**.



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- 7 Start the SERVICE mode-cycle whilst at the same time continually injecting Sodium Hypochlorite (chlorine) reducing the level of chlorine until a RESIDUAL Chlorine level of 0.1 to 0.3 ppm is reached (*Please note the Service mode flow rate is slower than backwash rate.*)
- 8 When the filter water has reached a Manganese level of 0.03mg/l
Check the residual Chlorine level and reduce the residual Chlorine level to between 0.1 to 0.3 ppm.
- 9 When the residual Chlorine level reaches 0.1 to 0.3ppm and remains stable,
The DMI-65 is ready for normal operation, continuous use.

CHECKING WATER QUALITY

In case iron is found to be contained in the filtrate water, please check the following:

- (1) Is air present? Whether the pH is abnormally low.
- (2) Has the filter medium dissipated?
- (3) Is the filter medium old and beginning to crumble?
- (4) Has there been equipment failure?

Please check to make sure that the following elements below are NOT high in concentration. After checking, if these elements are high in concentration, please contact your agent or us.

1. Salt.
2. Ammonia.
3. Silica
4. Calcium

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