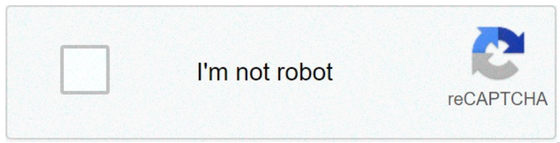

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Multimedia filter catalogue pdf

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Evaled RV8ã, Multimedia filter water pages which is by far the most common type of water filtration, which contain multiple media layers. Each layer is progressively sized in roughness and shallow layer. The multimedia layers are progressively stacked with the most coargest and most dense medium, typically gravel, down and lighter, higher means, high. A multimedia water filter is used to to reduce the level of SDI (LIMO density index), TSS (total suspended solids) in the incoming power supply. The suspended solids are made up of small particles, such as silt, clay, stony, organic matter, algae and other microorganisms. Incoming power water that is high in suspended solids can cause a pressure drop and reduce the effectiveness of downstream filtering equipment such as membranes, reverse osmosis membranes, EDI electrode, UV sterilizer and ion exchange beds, if the Multimedia filtration is not used as pretreatment.How to choose a multimedia filter? The choice of AA water filtering depends on several factors that must be considered to obtain good results in filtering: the maximum delivery ratethe nature of suspended or turbidity solids (colloidal or non-colloidal) water analysis WaterRequired quality treated Wateravailability of adequate of water for washing in Processwhen is a multimedia filter required? Ã, since they can be easily cleaned, paper filters are often used where there is a great amount of contamination, reducing the need for filter cartridges or bags and stress of the filter operator .ã, media have the advantage compared to Other types of filters that they have the ability to be a backwashedÃ ¢. Stuffing scores The filter and clean the accumulated filtered particles and restore / extends the filtersÃ ¢ performance. A multimedia filter is practically used when the Silt Density value index (SDI) is greater than 3 or when the turbidity is greater than 0.2 NTU. There is no precise rule, but these guidelines must be followed to avoid premature sourcing of RO or NF membranes. All major membranesÃ ¢ manufacturers require the SDI to be treated for less than 3, otherwise the warranty will not be valid.How does a multimedia work filter? In a multimedia filter, there are more graduated levels. The heavier layers become classified at the bottom and the most clear layers become classified up. Usually, the lighter layers are designed to get larger grains. This way larger contaminants are filtered by water before smaller contaminates, and filtration efficiency for the volume of filtering material has increased. The most common multimedia filter composed of sand and anthracite as filtration means. The sand has smaller grains and is heavier than the anthracite. This ensures that the sand layer deposits under the anthracite and provides more fine filtration. A well managed multimedia filter can remove particles up to 20 microns. Multimedia filter that uses added coagulant (which induces tiny particles join together with the quite large shape particles to filter) can remove the particulate up to 10 microns., Multimedia Filter components? Tank filter: This component can accommodate filtration means, is or stainless steel, FRP or epoxy coated steel. Metal tanks can handle high temperatures and pressure. Media: This is the filtration support that includes different layers of gravel, silica sand # 20, garnet and anthracite. This will depend on the quality of filtered water that is necessary. To get better water quality, it is recommended to add a layer of medium garnet. Upper and lower distributors Internal: the lower distribution system will prevent Spill, while the superior distribution system will distribute the flow harmonically during the service cycle. The realization materials can be both scheduled 80 PVC or stainless steel. If the application has a high temperature water, it is recommended interiors in stainless steel, tank tank Contaminants must be washed and the filter unloading should be more clear. As a multimedia filter removes turbidity from the incoming power supply, possibly the filter will display a pressure drop through the bed and / or increase in the turbidity levels coming from the multi-media filter. As a result, the multimedia filter at the end requires a countercurrent washing to clean the bed. The recommended backwash flow rate is 12-15 liters per minute per square foot, which sufficient to lift the BED support sufficiently without forcing any support from the upper part of the filter. Most filters are equipped with a countercurrent washing flow limiter that maintains this capacity. This is important with seasonal water temperature fluctuations, cold water is more viscous and raises the upper bed with less stream, which can cause loss supports outside the top during backwash. The monitoring must be performed when the pressure differential (Delta-P) reaches 10 psi (above clean) through the bed or when effluent turbidity increases by 10%. A normal pressure drop through a multi-cleane filtering means 3-7 psi intervals, so this must be taken into consideration before starting a backwash. The backwash can be started by a differential pressure switch, via Timer, PLC, digital controller or manual startup. The sharp edges of sand pearls and other media can become rounded over time and thus reduce their filtration capacity after many years of service and must be replaced, recommended after 5-7 years for MMF. Multimedia water flow filter system FlowSettling cycle during the phase to settle, filter closes and without water flows in or out. The fluid media is allowed to deposit so as to form the graduated filter bed. This phase can last between 15-20 minutes. This phase is not always necessary and is often jumped to save time. Furthermore, some control / valve systems may not have this function so that they can be offered at a lower cost. However, it saves the water and can increase the filtration efficiency. The settle phase should be taken seriously in consideration from those who in places where access to water is scary. Wine cycle after the Settle phase, the rinse phase can start. During the rinse phase, the water flows in the normal service direction, but is direct to discharge. This gives the media time to compact himself to give more efficient filtration performance before the filter goes into service. Some small particulates can still be present in drained water right now. After about 3-4 minutes, the exhaust water should be considerably cleaner the incoming water. The filter bed is considered to compact and ready for the service at that point. Water filtering means Rinse system Flowmedia filter Valves Modification Figure and in the table below the details each valve and its function. The valve position for each phase of the cycle is noted in Table 4A 1. The filters are indicated with the three types of different valves are commonly found in our industrial media filters. Valve valve valve steps counter -current service Settle rinsing an open incoming service closed closed open b open exit service closed closed closed c backwash open air entrance closed closed closed d backwash open open closed closed closed exit closed closed closed closed closed closed open open closed (Automatic) to actuating manual butterfly valves (automatic) to membrane butterfly valve valves as well as specialized technical aqua must perform the emptying of the old media and re-loading of the new media, the of an adequate coagulant to improve filter performance and other necessary maintenance interventions and troubleshooting.Industries and application applications for water media back-washable filters: suspended solids and reduction of iron turbidity and removal of manganese water reclamation Pre-treatment underground for RO / NF and pre-treatment membrane system for UV filtration sterilizers, river water or surface water gray tertiary treatment tower cooling tower and water heat exchanger offers (fountains, etc.) processes Industrial water rain rain water Water pool Water drinking water (drink) Water hotels and resort Water drinks and foodstuffs - Pretreatment Media filter for reverse osmosis (RO): Pretreatment Water media filter for schematic diagram - Pretreatment Media filter for Ultraviolet (UV) : Water media filter Pretreatment for schematic diagram UV - Media filter Pretreatment for electrodemage (EDI): Water media filter Pretreatment for Edi - Schematic diagram - Media filter Pretreatment for ion exchange: filter of the media of the Pretreatment water for ion exchange - schematic diagram 1 Reverse osmosis system 8 2 Chemical dosage: pre-chlorination 9 Ultra purple sterilizer 3 Raw supply water tank 10 Product water tank 4 Power pump 11 Product Pump Dell water 5 multimedia filter 12 electro-deionization 6 carbon filter 13 usage point 7 ion exchange filter s ISTEMI AND RECOMMENDED COMPONENTS: To be able to choose or recommend a multimedia filter, you need to provide some information: What kind of water are you treating? Sea, city, well, surface, recovered? It is important to know the water source. Filtration Velocity Cross The surface is important when we choose a multimedia filter, surface water: 3-5 gallons per minute per square foot. Beach-Well: 5 gallons per minute per square foot, visit our multimedia filters MF-600 Well water: 5-10 gallons per minute per square foot. Swimming pool water: 15-20 gallons per minute per square foot. What parameters are you trying to reach? SDI less than 3? Less than 10 microns? Iron reduction? If you select a multimedia filter for RO pretreatment, we should go to low speed than water or pool washing. Will the filter installed indoor or external? This is important for the external application, we should use the steel or stainless steel tank, similar to our MF-1000 series, what is the temperature of the power supply water? For a higher temperature, we recommend filters with stainless steel tank and front piping, similar to our MF-1100 series are looking for a continuous or intermittent operation? This will decide if a filtered water tank is required or not, and you will also decide on how and when performing multimedia filter filter filter projects. Enterimedia: / Media-Filtri-Projects / / Media-Filtri-Projects / Projects /

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