



CrystalClear-Choice Filtration

Imagine our highly successful CrystalClean separator with the added ability to add the filtration material and media treatment elements of your choice. Our latest patent allows us to put the proven separation treatment elements on the front end of a device while sending a controlled initial flow of impacted water into an up flow treatment system that provides targeted elements to remove specific pollutants. The concept is to separate trash, debris, hydrocarbons, sediment and other gross pollutants initially, and then to send that much cleaner water to a separate chamber for additional treatment. There is no chart here that shows flow capability because every device will be different. The CrystalClear-Choice will always have two sections separated by our “periscope” bypass structure. Sometimes both sections can be built into one precast concrete vault but often there will be two or more vaults required. The front separator system will be designed to remove 90% of suspended sediments down to a specific size along with the larger trash and debris. After separation, the periscope bypass structure will direct most of the flow up and out of the system, while the periscope will permit a measured amount of flow to pass under the bypass structure where it will rise up and out through the media boxes in the second chamber. The media will be chosen based on the targeted pollutants of concern. The thickness of the media, the resistance to flow and the contact time needed to treat the water all will be figured into the size and number of media boxes required for the device to operate successfully. There are many applications for this type of device in stormwater treatment, but also outside of normal stormwater treatment. The device can certainly be designed to target some specific pollutants that defy treatment by a separator. It also can serve industrial sites where it is difficult to prevent stormwater from entering some processing areas and where specific constituents can find entry into certain stormwater drainage systems. Please use our Design Form or Contact Form to let us get started on your CrystalClear-Choice design process.