



WHAT IS CHANNELING

Channeling refers to a condition that can develop in filters containing granular materials, usually carbon. Water flow produces small channels within the bed of media that allows the water to pass rapidly through the media without coming into contact with it. Since water's nature is to follow the path of least resistance, after a time it begins to cut channels through the medium. As channels or holes in the media bed form, water begins to flow around rather than through the medium. This process is called "channeling," and it can reduce the effectiveness of the filter considerably.

Carbon only filters require backwashing. Backwashing is necessary for the health and longevity of carbon media, effectively preventing bacterial growth and keeping the media from packing and channeling. The Purafier whole house filter we install use a media called Kinetic Degradation Fluxion (KDF). KDF Fluid Treatment's unique combination of copper and zinc creates an electro-chemical reaction. During this reaction, electrons are transferred between molecules, and new elements are created. Some harmful contaminants are changed into harmless components. Free chlorine, for instance, is changed into benign, water-soluble chloride, which is then carried harmlessly through the water supply. Similarly, some heavy metals such as copper, lead, mercury and others, collect on the KDF media and can't be shaken loose, thus being effectively removed from the water supply. There are such trace amounts of the heavy metals in our water that it would take over 30 years for the KDF media to be saturated by these metals. ***One of the benefits of our filters is that they have a constant upward flow path that keeps the filter media always moving and not packing down or channeling. Because of this complex filtration process, our filters do not backwash or waste any water.***