



Application Benefits:

- Uses naturally occurring neutralizing media increases alkalinity and raises low pH in the water to correct for acidic conditions
- Eliminates the need for regularly purchasing chemicals for acid neutralization
- Eliminates corrosion in the plumbing system, stopping fixture deterioration, pinhole leaks, and blue staining
- Clearer water at the tap
- Prevents costly repairs of plumbing fixtures as well as general maintenance, adding years to the life of your home
- Filters down to 20 – 40 micron
- Best suited for your home, office, commercial, industrial or municipal water treatment

Acid Neutralizing Filter

pH is an indicator of the acidic or alkaline condition of water. Water with a pH value less than 7 is acidic and tends to be corrosive. Acidic water (low pH) can leach copper, iron, lead, and other minerals out of the metal pipes and plumbing fixtures of your home, which can cause pipes to leak. Metals that leach from the pipes (lead from lead pipes or copper from copper pipes) may also cause health problems. Acidic water with pH values in the range of 6 to 7 is more corrosive to the metals used in plumbing systems than normal water.

Common causes for acidic water are acid rainfall due to atmospheric carbon dioxide and other airborne pollutants, runoff from mining soils, and decomposition of plant materials. Both ground waters (wells) and surface waters (such as spring water or creeks) can be acidic (mainly due to the dissolved CO₂ coming in water). Commonly, the low pH of the ground water is mostly a result of natural geological conditions at the site and the type of minerals found in the local rock.

Acidic water can be corrected by several water treatment strategies comprises of both chemical and non-chemical base neutralization systems.

Yasric-ANF allows water to pass through special media bed of calcite and/or corosex (used for low pH water). As the low pH water passes through the bed, the mineral dissolves into the water and raises its pH to a suitable safe level. Acidic waters slowly dissolve the calcium and magnesium media on contact as the water flows through the filter, raising the pH of the water and increasing the alkalinity. This eliminates the effects of corrosive water chemistries and can help to prevent corrosion of piping and fixtures.

Corosex, being a highly reactive magnesium oxide, is also used most effectively where required pH correction is substantial or high flow conditions are in use.

When used with automatic backwash valve option, this works as a self-backwashing system that automatically cleans its filter bed at a fixed time interval. This is accomplished with the electronic control valve that is mounted on top of the . This valve is controlled by a timer, that on a regular interval, initiates the backwash cycle that cleans the bed of pH correction media and resets it for the next period of filtration.

Yasric-ANF must be backwashed periodically to keep the bed clean since they serve as mechanical filters to remove solid particles from the water. Downflow ANF using a periodic automatic backwash is much easier to maintain and tend to work better for residential well water systems. A once per year addition of the calcite is all that is typically required.

The size of the system is directly proportional to the flow rate of the water, in gallons per minute. The higher the flow rate, the larger the system required. The useful service life of ANF filter depends upon the imposed load.

Removal Process:

While passing through the neutralization media bed, the acidic water slowly dissolves the neutralizing media and raises pH and increase water alkalinity to a satisfactory level.

- Calcite media if your pH is 6.0 to 6.9
- Calcite-Corosex blend media if your pH is less than 6.0

Yasric-ANF Acid Neutralizing Filter / Alkalinity Builder:

Features:

- Simple design for ease of operation setting & service
- Fiberglass reinforced construction for longer corrosion resistant life
- High efficiency acid neutralizing media for raising pH and sediment removal
- Works effectively on water having a pH range of 6.0 or greater
- For pH levels lower than 6.0, a blend of Corosex is added for improved performance, signified by an O model number
- Automatic Multiport valve (Fleck or Autotrol) with meter time clock system, meter demand system
- All corrosion free internals
- Consistent product quality
- Automatic backwash time adjuster
- 3-6 bar operating pressure
- Max. 10 bar test pressure

Optional:

- Automatic / Manual Multiport valve/ gate and valve nests.
- Metal pre-engineered diaphragm valve nest for high flow units (GE Osmonics –Aquamatic valves with stager)
- Higher flow available
- PLC Controller available
- SS & MS vessels available
- Duplex service standby controllers

Types of Top Mounted Filter Valve



**Manual Valves /
In/out Tank Head**

Automatic Valve

Water 2000 offers a complete line of acid neutralizing filtration systems, in either manual or automatic regeneration mode using a multiport valve design or valve nest design with fiberglass or epoxy-lined steel pressure vessels and come standard with state-of-the-art PLC control.

Yasric-ANF Series Systems (Automatic)*

Model	Neutralization Media Type	Media Volume (ft ³)	Pipe Connections (in)	Service Flowrate (GPM)	Backwash Flowrate (GPM)
Yasric CA1052A	Calcite	1	1	5	5
Yasric CA1554A	Calcite	1.5	1	7	5
Yasric CA2162A	Calcite	3	1.5	12	8
Yasric CAO1052A	Calcite + corosex	1	1	5	5
Yasric CAO1554A	Calcite + corosex	1.5	1	7	5
Yasric CAO2162A	Calcite + corosex	3	1.5	12	8

*Other customized models available on request

Please give us a call on 042 3542039-40 or email us at sales@water2000.com.pk and one of our professional team member will happily demonstrate how we can save your significant cost and greatly improve the performance of any of your water or wastewater treatment plant.