CECO Peerless

Process / Potable Water Treatment

Remineralization Technology

Product Application

Remineralization is one of the essential processes for potable water, especially for the RO permeate in water produced from desalination plant.

Remineralization is usually done using calcite or lime, complemented with magnesium salts and for certain cases magnesium salts or carbon dioxide. The main purpose of the remineralization and adding calcium and magnesium to the water is to reduce the corrosive tendency by increasing the water pH, also increasing the TDS to a level that considered acceptable to improve the potable water taste.

Process Description

The remineralization process can be achieved by adding diluted calcium hydroxide. The prepared solution is filtered through a cartridge filter to ensure a clean solution free of calcium carbonate and other insoluble impurities before getting mixed with potable water.

The filtered solution will be mixed with potable water according to predetermined quantity using a dosing pump or a normal centrifugal pump depending on the flow rate.

Product Benefits:

- Reduce pipe network corrosion due to alkalized pH
- Balancing the potable water pH value will improve the human body immune system
- Improve potable water taste

Service and Features:

- Supply as part of integrated system to achieve the performance guarantee values
- Fast track delivery
- Supply remineralization high efficiency chemicals
- Installation & supervision commissioning
- Operation & maintenance services

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