

Bokhar Gostar Tabaristan

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Methods of revitalizing resin hardener (Bohargostar, Tabaristan)

Reviving the resin hardener is one of the most important steps in order to increase the efficiency and improve the replacement power of magnesium and calcium ions. It is present in water with sodium ions in resin, which is done in different ways in hardening devices. In other words Also, after successive use of resin grains in water hardening devices (metal pot), gradually the power of ion exchange in the resin has been reduced and it is necessary to perform the process of regeneration and reuse of the resin hardener periodically and according to the amount of ions in the water. Tabaristan Bokhar gostar Company;

The manufacturer of water and sewage equipment, in the continuation of the introduction of regeneration and washing methods Resin hardening devices pay.

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What is resin hardener recovery?

Before explaining the resin recovery methods, it is necessary to explain what resin is. The resin of the pregnant seeds is very yellow They are small with a radius of 0.5 or less, which have strong adhesion and high reaction with other ions in the environment. With attention Due to this feature that exists in resin polymer grains, it has a very wide application in removing water

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hardness and according to the cation or Being anion particles, they are able to remove ions suspended in water such as calcium and magnesium. Calcium and magnesium, which are the main factors in They are considered as water hardening, they are replaced by sodium ions in the resin upon entering the resin hardeners. this The process gradually causes the cationic or anionic properties of the resin to decrease due to replacement with charged particles in water. slow For this reason, it is necessary to separate the particles and ions attached to the resin grains by different methods. To this action, so to speak It is called reviving the hardness of the resin. In other words, various methods are used to improve the adhesive strength and reactivity of the resin improve It is necessary to restore the hardness of the resin according to various factors and periodically. The amount of ions in water from are the most important factors, so that in environments with very heavy water and high calcium and magnesium in it, it is necessary at intervals Short action should be taken to revive the resins.

How is resin hardener revived?

Considering the great importance of reviving the resin hardener and its effect on increasing the Efficiency of ion replacement, in the design of devices This problem has been carefully considered. In all hardening devices from the source of salt water for washing and regeneration of resins is used The procedure and method of reviving resin grains by salt water is as follows:
As the brine passes through the resin bed, a large volume of sodium and salt (NACL) with calcium and magnesium attached to the grains The resin is replaced. This process is exactly the opposite of water hardening with resin grains. In the structure of resin hardeners manometer for,

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parts such as tank, resin, nozzle, salt water tank, solid valve valve and Inlet pressure control is considered. After the hardening process with resin grains, it is necessary to alternately 8 to 72 hours to restore it. Reviving resin hardener is done in two general ways, that is They are as follows:

Revival of resin hardener with(back wash)

Reverse washing with backwash is one of the common methods for reviving and cleaning the resin bed in hardening devices .

To use this method, the following steps must be taken:

- First, the device is removed from the circuit and the drain valve is opened.
- By placing the lever handle of the valve in the wash mode, water enters from the bottom of the device and passes over the resin bed with pressure.

A large volume of solutes placed on the resin grains is separated by this method and finally with the help of a drain valve from an external device they turn

Regeneration of resin hardener with salt water solution

Backwashing is not able to replace the ions placed on the resin grains and can only remove accumulated substances and solutes. separate from their surface. For this reason, salt water tanks are used to restore resin hardeners. In order to use The following steps must be taken from these tanks:

- Using the manometer in the device, the input pressure must be controlled first. This standard pressure should be between 1.7 and 3.5 be placed

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- After the backwash operation, the salt water valve must be opened. Then the multi-way valve should be in Regen mode. this milk It should be set to Regen mode until about two-thirds of the salt water in the tank is used. By doing this The action of the salt water in the tank moves towards the resin grains and the Nacl in it accumulates with calcium and magnesium. It is replaced on the resin grains. Finally, it is removed from the device with the help of the drain pipe.

- After washing with water and salt solution, it is necessary to put the multi-way valve in Run mode to wash the seeds Resin should be done with raw water. In this situation, the drain valve should be open so that excess salts are placed on the grains The resin is washed and drained.

Design and manufacture of hardening device This company

is one of the largest manufacturers of all kinds of hardeners, resin hardeners of the highest quality And it is designed and produced in sizes and dimensions according to the customer's order. To know the features of these products, experts Bohargostar Tabaristan Company provides free consultation through the communication channels mentioned at the bottom of the page. To buy and get more information, visit the page of the hard product.

