



Drinking water defluorination equipment

Purpose:

It is often used as a special equipment for centralized removal of excessive fluoride ions in drinking water with groundwater as the water source. It can also be used for the treatment of fluorine-containing industrial wastewater and arsenic containing drinking water.

Drinking water defluorination equipment refers to the equipment used for defluorination and defluorination of drinking water. When the raw water flows through the natural mineral filter material, the core filter layer inside the defluorinator and the defluorinator, the water contacts with the natural mineral filter material in the defluorinator and the defluorinator. Through physical and chemical



reactions - adsorption and ion exchange, the fluorine ions in the water are adsorbed and exchanged by the filter material, and the fluorine ions in the water are removed, The fluorine content in the water shall be within 1.0 mg / L specified in the national sanitary standard for drinking water. After a period of operation, the natural mineral filter material is saturated in adsorption and exchange, and needs to be regenerated through the regeneration system. After regeneration, the performance of the filter material is restored as before and can be reused for a long time. Potassium aluminum sulfate (alum) can be used as regeneration agent.

Main features of fluoride removal and reduction equipment for drinking water:

- a. New natural mineral filter material beneficial to human body;
- b. High efficiency fluoride removal and removal of various harmful substances in water;
- c. Stable performance and service life up to 30 years; Low operation cost;
- d. Simple structure, small floor area and simple operation, maintenance and management;
- e. Flexible scale, large or small, designed and manufactured according to user requirements;
- f. Manual, semi-automatic and full-automatic specifications are available for users to choose;
- g. The new survey found that fluorine does great harm to human physical and mental health. Healthy life and the use of healthy drinking water can not be ignored. This product is indispensable for heavy industrial areas with serious water pollution.



Characteristic:

The unit adopts upflow activated alumina adsorption method, and CO₂ gas is used to adjust the pH value of raw water and NaOH level regenerant. have:

- a. Advanced technology, compact structure, large adsorption capacity, less land occupation and high water production rate per unit area.
- b. Simple operation, long operation cycle, stable effluent quality and no sludge discharge.
- c. The regeneration time is short, the drug consumption and water consumption are small, and there is no secondary pollution.
- d. It can be used in series and parallel for single or multiple units, and the characteristics of phased construction and combination with water supply system can be used.

Specifications and main technical parameters:

| Model | | GF-2 | GF-5.5 | GF-10 | GF-18 | GF-30 | GF-40 | GF-50 |
|---|---|---------|----------|----------|----------|----------|----------|----------|
| Items | | | | | | | | |
| Treated water volume (m ³ /h) | | 2 | 5.5 | 10 | 18 | 30 | 40 | 50 |
| Overall dimension (mm) | D | 600 | 1000 | 1400 | 1800 | 2400 | 2700 | 3000 |
| | H | 3200 | 3600 | 3800 | 4000 | 4400 | 4800 | 5300 |
| Operating weight (kg) | | 1100 | 2900 | 6500 | 11000 | 19800 | 26700 | 35800 |
| Filling amount of activated alumina (m ³) | | 0.43 | 1.18 | 2.31 | 3.82 | 6.80 | 8.59 | 10.00 |
| Foundation dimensions ΦxH (mm) | | 800x200 | 1200x200 | 1600x200 | 2000x200 | 2600x200 | 2900x250 | 3200x300 |