

四平食品加工污水处理设备

产品名称	四平食品加工污水处理设备
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产品详情

One kind of wastewater treatment scheme for food processing plants - Summarize that different raw materials and wastewater produced by food processing plants in the process of processing are different. A lot of water is used in the process, so a lot of waste is discharged as sewage. In view of the fact that the sewage contains a lot of emulsified particles and grease, the new air floatation machine developed by our company can solve the problem well and make the sewage discharge meet the discharge standard.

2. A sewage treatment scheme for food processing plants-process is generally: air flotation+anaerobic+aerobic biological contact oxidation method; air flotation-biological contact oxidation method, etc.

3. A Wastewater Treatment Scheme for Food Processing Plant-Process Description

A grille

The grid channel is located at the inlet end of the sewage source in the regulating tank, and the design considers saving land and investment.

Artificial grilles are set up in the grille canal to intercept and remove the larger suspended solids and paper scraps in domestic sewage, so as to protect the pumps and subsequent pipeline systems from blockage.

Oil Separation Regulating Pool

In the whole treatment system, a sewage oil isolation regulating tank is set up. By adjusting the pool settings, the water quality and quantity can be fully balanced, the sewage can be more evenly entered into the follow-up treatment unit, the impact resistance of the whole system can be improved, and the design scale of the treatment unit can be reduced. It is conducive to reducing operation costs and the impact of water quality fluctuations. An air mixing device is installed in the regulating pool to prevent precipitation and to balance water quality. Set up the automatic level control device, the pump will automatically open according to the level.

Anoxic pool

Because of the high organic composition in sewage and the good biodegradability of $\text{bod}_5/\text{codcr}=0.6$, the biofilm method was adopted in the design.

Because of the high content of organic nitrogen in domestic sewage, ammonia nitrogen will appear in the form of ammonia nitrogen when biodegrading, so the ammonia nitrogen index in the effluent will rise, and ammonia nitrogen is also a pollution control index. Therefore, an anoxic tank is added before contacting the oxidation tank. The anoxic tank can denitrify the nitrate brought into the reflux mixture and the organic carbon source in the influent, so that no_2 in the influent water can be denitrified. - Nitrogen removal is achieved by reducing no_3 -to n_2 , and ammonia nitrogen value is degraded while organic matter is removed.

Contact oxidation tank

Sewage is treated in the anoxic pond, flows into the contact oxidation pond, which entered into the stage of contact oxidation, aerobic treatment.

The contact oxidation tank is mainly a biofilm, biological treatment device with activated sludge, by providing a source of oxygen, organic wastewater by adsorption, microbial degradation, water purification.

Considering the contact oxidation for a long time should be in the design process, internal elastic filler with high specific surface area, filling rate is 70%, the specific surface area of nearly $600\text{m}^2/\text{m}^3$, in the area of design load should also fully consider the surrounding environment, to ensure better treatment efficiency. Therefore the design load should choose a relatively low value: $0.83\text{kg}/\text{m}^3$ day. Packing life in 8 years. The pool of oxygen provided by rotary blower. The air-water ratio also considers a higher value: 15:1, aeration form: micro-pore aeration, aeration head considering the use of the current international water treatment more advanced film aeration head. Never blocked the device during operation, with small pore aeration oxygen utilization rate, etc., compared with the traditional aeration form, has the advantages of There is nothing comparable to this.

Contact oxidation is a biological treatment process with biofilm activated sludge with. After sufficient oxygenation of the sewage, all submerged to a certain speed through the filler and filler, the filler surface with biofilm and oxygenation of the sewage after full contact, the organic compounds in water by adsorption and degradation, so that the sewage have evolved.

This design uses the three-dimensional elastic packing international advanced, not only the large surface area and excellent flow characteristics.

Due to the large number of microorganisms are fixed on the surface of the filler layer, forming a high concentration sludge bed, commonly known as a biofilm, it has strong resistance to shock loading.

The structure of activated sludge due to no or very small amounts of suspension, and thus will not produce sludge expansion, which is a major feature of this method.

This is the key stage of producing packing layer biocultivation and bed, as long as the operation of the early work, basically do not ask other questions during the operation.

sedimentation tank

The sewage through contact oxidation, biofilm activated sludge and a small amount of production in the process of The new supersedes the old. entrained oxide, and non biodegradable small solids into two sedimentation tank for solid-liquid separation. The water can be discharged to clarify. Sedimentation tank with inclined tube type, the total

residence time of 4.0 hours, precipitation of sludge is returned to the pool for further reducing excess sludge digestion. A water tank design into a tooth adjustable liquid collecting tank, increasing precipitation effect.

Fourth, a food processing plant, sewage treatment equipment - Classification

Centrifuge

Centrifuges are mainly used to separate solid particles from liquids in suspensions; or to separate two incompatible liquids with different densities in emulsions (e.g. to separate butter from milk); they can also be used to remove liquids in wet solids, such as drying wet clothes with a washing machine; special super-speed tube separators can also separate gas mixtures of different densities; different densities or particles can be used. Solid particles of different settlement velocity in the liquid, some settling centrifuge can also according to the density of solid particles or particle size classification.

Sludge dewatering machine

Sludge dewaterer is characterized by automatic control, continuous production, stepless speed regulation, for a variety of sludge.

Is suitable for water supply and drainage, papermaking, leather, textile, casting, chemical, food and other industries of sludge dewatering.

Aerator

The aerator is scattered by gas impeller, "micro bubbles" straight