



NANYANG GOODWAY MACHINERY & EQUIPMENT CO., LTD.

Factory Add: ERLANGMIAO STREET, ERLANGMIAO TOWN, FANGCHENG COUNTY, HENAN PROVINCE, P.R.CHINA

GOODWAY 固德威 Website: www.cassavamachine.cn www.goodway.top

Rotary drum filter



vacuum dewatering machine is domestic cassava starch production industry, yeast production industry Dehydration commonly used equipment, its manufacturing process is mature, mainly used for plant starch production in recent years Dehydration, degeneration starch production dehydration. In particular, the dehydration of potato and cassava starch emulsions is more reliable and more stable.

Vacuum filter work principle:

The straw type vacuum dehydrator is divided into three parts: material area, dewatering area and blanking area, which can be continuously realized.

Solid-liquid separation. Under the suction of the vacuum pump, a vacuum is generated in the hollow shaft and the link pipe system.

A negative pressure is formed on the surface of the filter screen, and the degree of vacuum generated inside the suction pipe is low when the drum is moved outside the material zone.

When running to the material zone (level tank), the filtrate floods the surface of the drum filter and begins to adsorb the starch emulsion.

Under the action of negative pressure, the starch emulsion in the material zone is adsorbed to the surface of the outer filter screen to form a wet starch cake layer.

When the drum runs into the dewatering zone, the vacuum in the linked pipe system continues to rise and is adsorbed on the drum filter table.

The free water in the layer of starch emulsion is sucked into the piping system through the filter through the gap between the starch particles.

After mixing the liquid and the gas, it is sucked into the filtrate tank (gas water separator) through the hollow shaft, and then the gas is passed through the filtrate tank.

Body and liquid separation. The liquid is pumped out by the centrifugal pump of the filtrate, and the gas is sucked out by the vacuum pump and discharged into the air. precipitate

Due to the unequal size of the powder particles, the powder particles cannot form thicker and thicker through the filter to form a filter cake. When the drum runs to

When the discharge area is unloaded, it is hung by the scraper to become wet



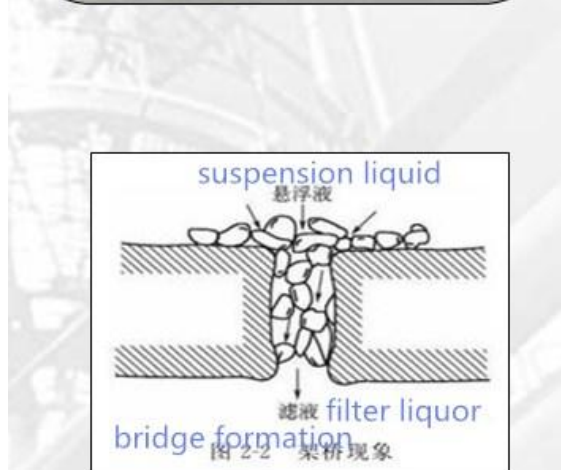
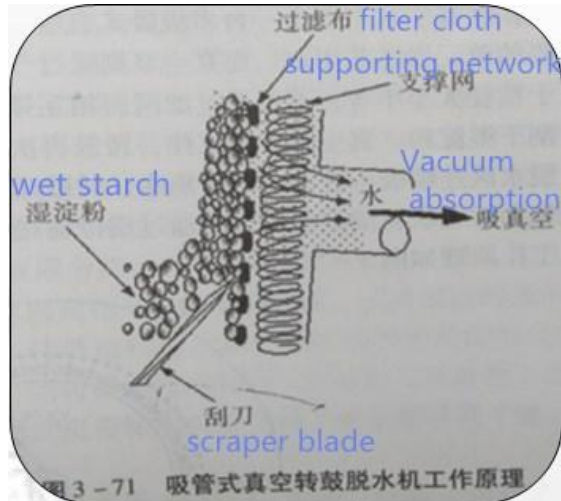
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starch after dehydration, and the reciprocating cycle forms the entire flow of starch dehydration.

Vacuum filter work principle :



The inner wall of the drum and the outer wall of the hollow main shaft are evenly distributed with a plurality of vacuum suction pipes. The pipes connect the inner wall of the drum to the outer wall of the hollow main shaft to form a complete vacuum system, so that the gas and the liquid are mixed in the same pipe and sucked out by the water ring vacuum pump. The gas and the liquid are separated by a filtrate tank (gas water separator). The drum is mounted on a stainless steel frame and carried by bearings attached to the main shaft. One end of the main shaft is connected with the speed reducer to drive the vacuum drum to rotate, and the other end of the shaft is a hollow structure, which functions as a vacuum suction. The outer surface of the drum is equipped with a stainless steel support net, and a filter mesh of 160 mesh or more is placed on the outer surface of the support net (depending on the diameter of the starch). The surface of the drum is effectively dehydrated to occupy about 70% of the entire drum area, and the blade edge is upward.

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