EVAPORATION SYSTEM for GRAPE MUST & FRUIT JUICES



GRUPO

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PROCESS SYSTEM

The must obtained is CE 1493/1999 compliant

The following system is specially designed to obtain concentrated must and grape juice from sulphite containing grape juice. The system produces high quality concentrate that complies both with strict regulation and the client needs (SO₂, HMF, ^oBrix y THK) at low processing costs.

The main unit for obtaining ready to use grape must is the de-sulphiting unit. This unit can be attached to the evaporation unit in order to increase the energy efficiency of the process.

The equipment is mainly formed by three sub-units:

•A multiple effect evaporation de-sulphiting unit, operating under vacuum for sulphited grape must.

•SO3 recovery system for evaporated vegetation water.

•Neutralization column for the SO₂ gas emissions.

Maximum energy efficiency of the supplied steam

Recovery of vegetation water

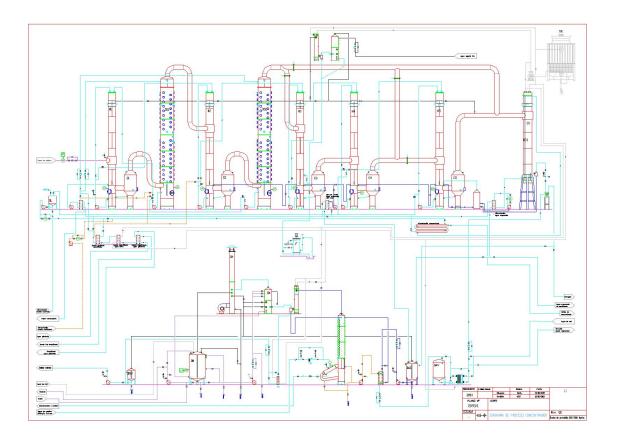
Recovery of concentrated SO₃ The sulphited must is introduced in the first effect of the evaporation system where a pre-concentrated must is obtained in the bottom, and the evaporation water together with the SO_3 is leaded by the top. The must is further concentred in the following concentrating units.

The water with SO_3 is then treated in the de-sulphiting column where concentrate SO_3 and clean water are obtained. The SO_2 concentrate is suitable to use for sulphiting fresh grape juice, and the water with SO_3 content less than 10 ppm is suitable to reuse in the industrial process.

The gases that escape from the de-sulphiting unit are neutralised in the neutralization column with NaOH where a solution of Na_2SO_3 is obtained and the emissions to the atmosphere are reduced to less than 0,1 g/Nm³ required by the current law.

The concentrated juice without SO_3 obtained after all the process is cooled and ready to sell or store.

PROCESS DIAGRAM



INSTALLATION EXAMPLES

Concentration and de-sulphitation system (grape must, fruit juice, ...) for J. GARCIA CARRIÓN in Jumilla (Murcia) with a treatment capacity of 10.000 Kg/h

Concentration and de-sulphitation system (grape must, fruit juice, ...) for MOSTINSA in Valdepeñas (Ciudad Real) with a treatment capacity of 8.000 Kg/h

Concentration and de-sulphitation system (grape must, fruit juice, ...) for VIÑAOLIVA in Almendralejo (Badajoz) with a treatment capacity of 8.000 Kg/h

Concentration and de-sulphitation system (grape must, fruit juice, ...) for SECNA in Benifaio (Valencia) with a treatment capacity of 8.000 Kg/h

Concentration and de-sulphitation system (grape must, fruit juice, ...) for MOSTOS DEL PACIFICO in Curicó (Chile) with a treatment capacity of 10.000 Kg/h







La experiencia de un gran grupo