



DDGS Drying and Evaporation Plant Destilmex, Navolato, Sinaloa, Mexico

The Hot Air Dryer (HLT) in combination with an alcoholic vapour heated evaporator enables the production of high quality DDGS (Distiller's Dried Grains with Solubles)

Destilmex, a subsidiary of the Mexican sugar company Zucarmex, is a so-called 1. generation bioethanol plant converting corn and sorghum into fermentable sugar materials, which are subsequently converted into bioethanol through fermentation and distillation.

The DDGS-plant converts the stillage, which is the by-product from the distillation process, into a dry product consisting

of a protein-containing organic material. The DDGS is a highly valuable feedstuff, which is a constituent part of mixed feed for primarily cattle, pigs and poultry. The conversion of stillage is done through a process of mechanical separation, evaporation and drying.

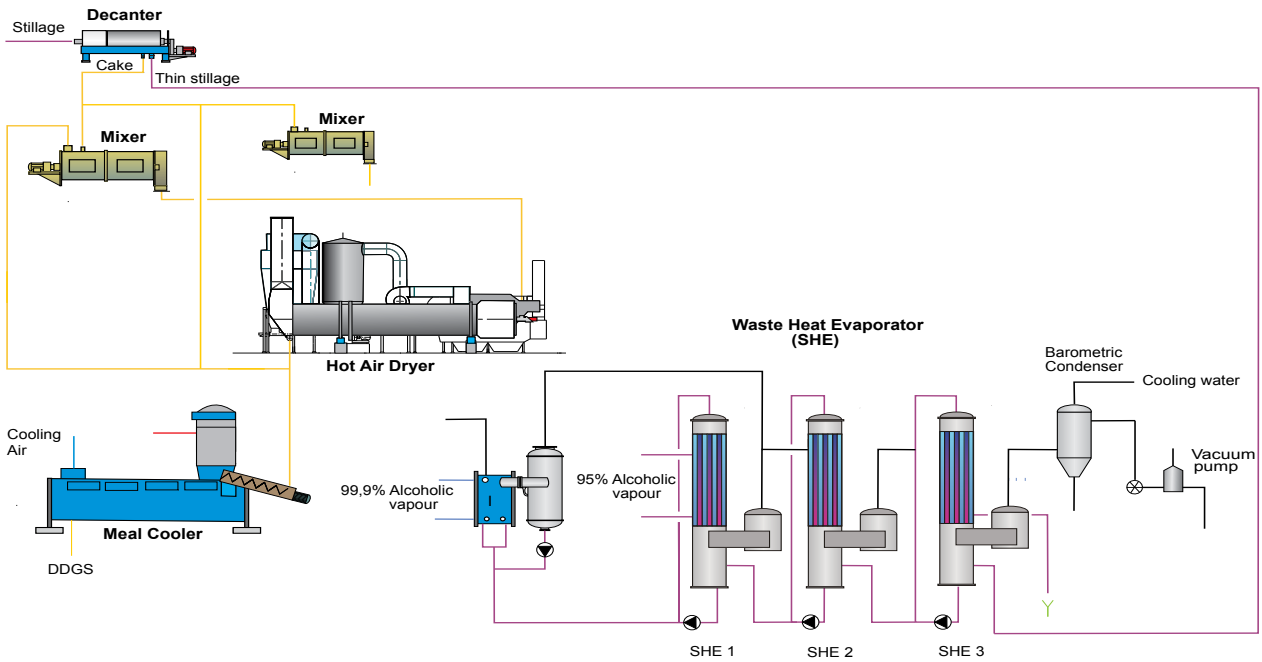
Drying takes place in a HLT dryer, which is a convective drying system based on a rotating drying drum. The HLT drying system consists of two separate circulation loops which imply no contact between the product and the combustion gases. The hot air serves two purposes; transportation of the

product through the dryer drum and evaporation of moisture by convection to the product. Due to this operation product temperature is kept very low and production of a high quality DDGS is achieved.

Haarslev Industries A/S

Trough the acquisition of Atlas-Stord Denmark A/S in 2006 Haarslev Industries has become a major supplier of industrial drying machines for handling of by-products from distilleries and drying of biomass for fuel. Sharing know how and experience enable us to develop and optimise machine and process design.

Hot Air Drying & Evaporation Plant



Plant Data, the Destilmex DDGS Plant

- Start-up 2008
- Plant Capacity 130 t/h stillage
 - DDGS production 11.5 t/h
 - Evaporation
 - Dryer 20.5 t/h
 - Evaporator 62 t/h
 - Oil Consumption 1.75 t/h
- Plant Configuration
 - Dryer type: Hot Air Dryer (HLT dryer)
 - Evaporator type: Alcoholic Vapour Heated Evaporator



Advantages

The HLT dryer combined with an alcoholic vapour heated evaporator (SHE) gives the following advantages:

- High product quality
- Heat treated emission
- No production of dryer condensate

We reserve the right to make alterations without further notice.



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