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SYSTEM PROCEDURE

This new technology solves the environmental problem of wastewater from olive oil factories.

This new technique has been developed in cooperation with olive oil factories and AINIA institute of technology. It solves the environmental problem of wastewaters from olive oil factories bringing economical and technical benefits.

The wet pomace is driven to a centrifugal separator recovering the dregs (drier pomace), oil and the vegetation wastewater.

Vegetation wastewater is then led to an innovative biological and adsorption process followed by filtration and evaporation procedures obtaining the following products:

- High grade distilled alcohol from the biological treatment.

By this innovative process the following products are obtained:

Distilled Alcohol

High quality water

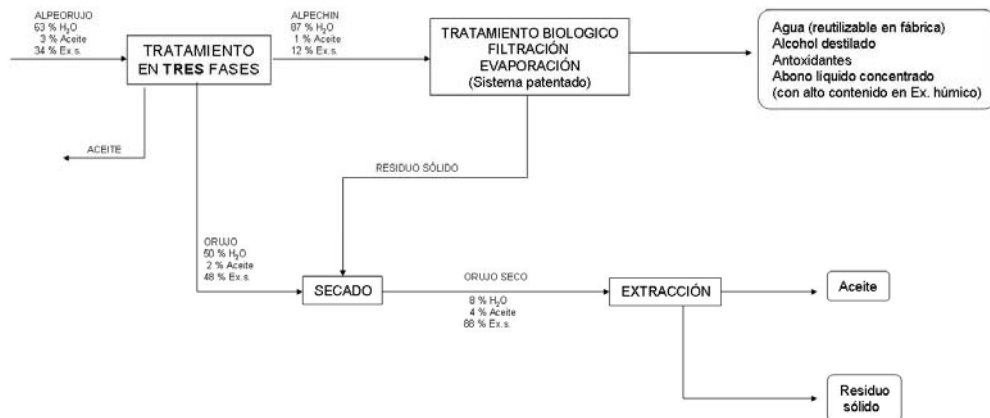
Organic concentrate with high phenolic and fulvic contents

- High quality evaporated water (with very low COD), suitable for direct reutilization or disposal.
- Organic concentrate with high phenolic and fulvic contents. This concentrate is directly an organic fertilizer. There is also a lot of research for using this concentrate as a natural source of antioxidants for both nutraceutical, and cosmetic industry.

This patented system avoids the corrosion, energetic and stocking problems of drying the wet pomace and solves the environmental issue of vegetation wastewater at the same time.

PROCESS DIAGRAM

DIAGRAMA DE PROCESO PARA INDUSTRIALIZACIÓN DE ALPECHINES



INSTALLATION EXAMPLES

| Installation INDUSTRIALIZACIÓN ALPECHINES for Coop. Comarcal Vall d'Albaida in Quatretonda (Valencia) with a treatment capacity of 6,5 Tm/h

| Installation INDUSTRIALIZACIÓN ALPECHINES for General d'Olis en Cullar (Granada) with a treatment capacity of de 3,75 Tm/h

