

Socios estratégicos:



AZ Ingeniería  
y máquinas Ltda.

EVAPORATOR TECHNOLOGY  
WE KNOW ABOUT PROCESS



- Z** CENTRAL OFFICE
- PROJECTS DEVELOPED
- STRATEGIC PARTNERS

## AZ Projects

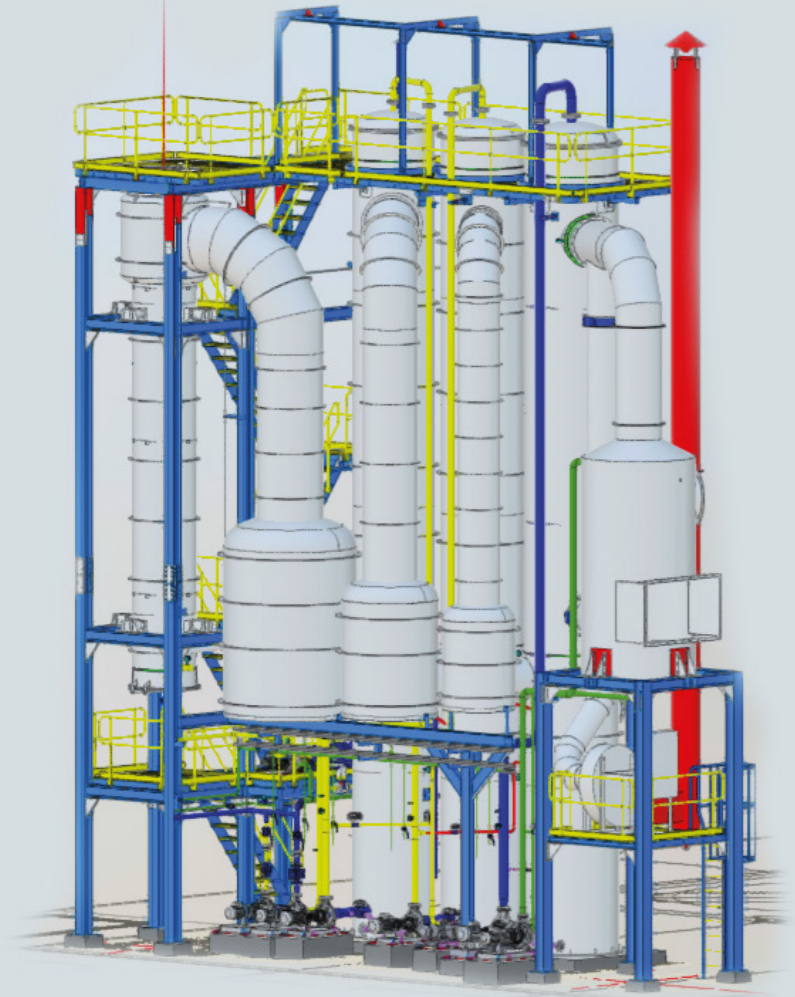
...More than 120 projects / clients worldwide.  
We know about processes.

# Engineering around the world!!

AZ Ingeniería is an international company specialized in high engineering projects. We use advanced designs and technology, being able to integrate our own equipment and inputs, contributing together with our own equipment and supplies, collaborating with renowned companies worldwide.

Over the decades we have acquired vast experience in the development of our technology. We have been able to integrate our know-how into our evaporators designs for the various industrial processes.

FROM THE ENGINEERING TO THE PROCESS



# Evaporation

Due to the great experience that AZ Ingenieria has acquired in the different industries with the different types of evaporators. We help our customers to select the most suitable solution for their project.

AZ supplies different type of Evaporators, Steam Heated (SHE), Waste Heated (WHE), Thermal Recompression (TVR), Mechanical Recompression (MVR), Flash or Forced recirculation (FRE) with traditional or Falling Film technologies. Our main market is the Wet Rendering/Fishmeal applications but also in Dry Rendering applications. Evaporation capacities could go from less than 1,000 kg evap/hr till more than 80,000 kg evap/hr in multi-effect solutions. Each project is a tailor made solution adapted to the lay-out and evaporation requirements.

We have references in America, Europe, Africa and Asia.

AZ is not only able to supply high quality evaporators, we also provide a wide range of services, such as:

- Evaporator optimization.
- Evaporator recovery.
- Evaporator design and dimensioning.
- Complete automation of evaporators.
- Equipment quotation.
- Plant personnel training.



# Enzymes

At AZ Ingeniería we are pioneers in the use of enzymes during the evaporation stage, whose main objective is to reduce the viscosity of the stick water in the evaporator, improving substantially the process conditions and heat transfer, which translates into a considerable increase (12-15%) in the amount of evaporated water, obtaining a more concentrated product.

Furthermore, a less viscous substance keeps the evaporator tubes cleaner, reducing incrustations, which allows a better heat transfer and positively affects the performance of the equipment.

Based on its extensive experience with hydrolysis of stick water, AZ Ingeniería offers our customers:

- Elaboration of solutions for automatic dosing of enzymes.
- Evaluation and optimization of hydrolysis processes.
- Development of new hydrolysis processes.

# Energy Recovery and Odor Control

A topic that is becoming increasingly important is energy saving and the issue of process odor control.

Several technologies are currently available, with different levels of efficiency, investment costs and operational costs.

AZ's experience with the industry it has worked in, together with the experience it has acquired through its strategic partners, allows us to design a solution to channel the gases and vapors from the process to make use of the caloric energy they have, or to find the most appropriate way to treat them and reduce the odor load to the levels established by the local regulations in force, thus avoiding the discomfort of the surrounding communities.



## Among our services we highlight:

- Capturing and channeling of process vapours.
- Recovery of available energy in process vapours.
- Quotation and supply of odor control equipment.

## Related Projects:

- Spain (RTO AUCOSA).
- Mexico (RTO installed at Maz Industrial).
- Chile (RTO ProEx, Vapours Captation in Lande, Lota Protein and Ariztia).



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