

SAVE ENERGY WITH THE CORE EVAPORATOR CONTROLLER CORE-EVAP

CORE

THE CONTROL CHALLENGE

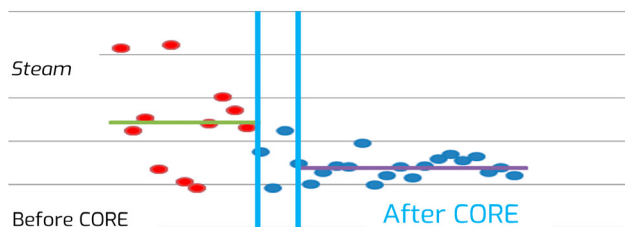
In the production of animal by-products or fish meal and fish oil, evaporators are generally used to concentrate fluids like stickwater or slurry material having a high content of water. The objective is to achieve a concentrate with a higher dry matter content and in an energy efficient way.

The concentrate should have optimal dry matter content – where the evaporation process is efficient without risking material burning.

The flow through the evaporation system must be well controlled. If the flow is too high, the energy efficiency is reduced and too much moisture is left in the concentrate. If the flow is too low, the evaporation process may become a bottleneck in the production, reducing capacity, and moreover the risk of burning increases which can stop the production.

Consequently, the energy efficiency may significantly depend on how well the evaporation process is controlled.

To achieve the required dry matter content in the concentrate, the flow through the evaporator system must continuously be kept at the most optimal level.



CORE-EVAP

The CORE-EVAP advanced evaporator controller utilizes critical information regarding process history to improve the flow through the evaporator system, constantly improving the evaporation process.

CORE-EVAP continuously collects and uses parameters such as tank levels, flows, temperatures, pressures, motor loads of pumps etc. to adjust the flow through the evaporators in order to achieve the optimal concentrate.

Prior to installation, CORE always provides an analysis of the potential for energy savings and the potential for increased capacity and yield.

CORE projects generally have a payback period between 6 months and 1 year.

The CORE-EVAP controller is delivered on a separate PLC and with the communication units needed.

The controller is implemented swiftly and commissioned without disturbing production.