

# GEA EVAPORATOR PRODUCT RECOVERY

Solution for reducing dairy waste.



# Helping dairy manufacturers improve processes.

## **Ensuring product quality and a robust stable process.**

Dairy processing plants continually strive to improve efficiency and reduce product losses.

GEA Evaporator Product Recovery helps achieve these key requirements by allowing the low solids from the evaporator, that might previously have been discarded, to be safely reused in the process. It includes the holding tank fitted with an automatic system for re-dosing the low solids downstream in the process as required. During storage the product is kept cool to ensure optimum conditions for reuse and can be diluted further if required.

The system can be used with a single evaporator or with two evaporators feeding a single dryer 24/7. It can be retrofit to existing evaporation systems or fitted as part of a new installations.



# How does it work?

Low solids are produced as part of the normal evaporator production start-up following CIP (Cleaning in Place). They have a solids content of between 9% and 50%, which is too low to be fed into the dryer, so must be removed to allow the dryer to start smoothly.

But rather than discard this valuable product, GEA Evaporator Product Recovery stores the low-solid phase in a separate holding tank, keeping it in perfect condition to be reintroduced into the process later.

## **Almost nothing is wasted.**

By reusing the low-solid phase it is possible to dose small batches, later in the same production process, to match them perfectly with recipe requirements for individual products. In this way, processors can improve product quality, maintain the stability of the process, and reduce product losses.



## **Your benefits:**

- Increases operational profits
- Virtually eliminates product losses
- Keeps the dryer operating at an optimum level
- Avoids 'out of specification' powders
- Reduces or eliminates waste disposal costs
- Helps prevent bacterial contamination
- Simple to operate.

**GEA Process Engineering S.A.S.**

4, rue J.P. Timbaud - B.P. 80  
78185 Montigny le Bretonneux  
France

Tel +33 130 146 110

[gea.com/contact](http://gea.com/contact)