

# GEA Aroma Recovery System

Innovative system for extracting and preserving coffee aroma compounds



# Reliable, effective aroma recovery for great-tasting coffee

Here at GEA we understand that making great-tasting coffee means extracting and preserving as much of that true coffee aroma as possible, whatever the final coffee product and however you process your beans. We've developed a reliable, user-friendly, and easily maintained aroma recovery system (patent pending) that helps you to preserve key aroma compounds during coffee processing. Small in footprint but big on results, the system is simple to integrate into new and existing GEA coffee lines.

## **Two nozzle aroma recovery system**

Our aroma recovery system delivers the coffee extract and a steam flow to a two-fluid nozzle, to generate a spray of coffee extract in steam. The spray is then separated into an aroma-rich gas and a stripped coffee extract. Using a two-fluid nozzle to atomize the coffee extract with steam means that the extract does not need to be preheated to high temperatures before stripping.

## **Preserving fragile aroma compounds**

The coffee extract is only in contact with the steam for a short duration, which means that it isn't over-exposed to high temperatures for long periods. This low heat impact can help to preserve fragile or delicate aroma compounds.

The GEA aroma recovery system in addition comprises an intermediate condenser and distillation column, to further refine and concentrate the aroma compounds before drying.

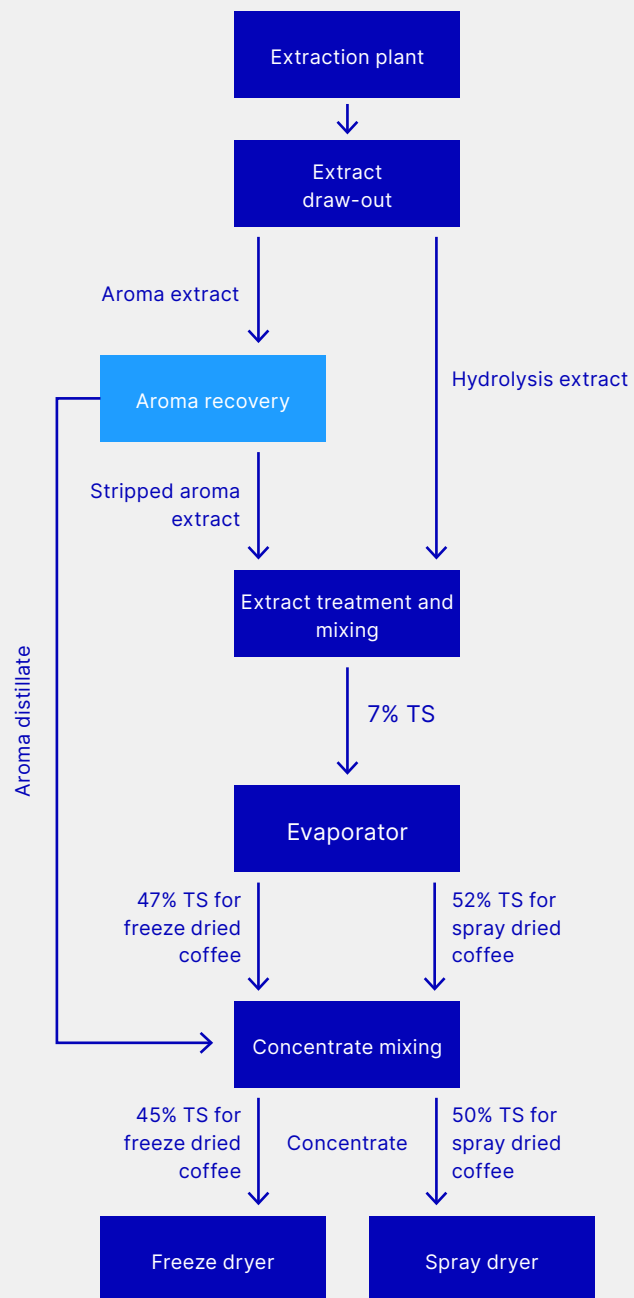
## **Cost- and space-effective solution with high yield**

Using a two-fluid nozzle to atomize and strip aroma compounds from coffee extracts is a cost- and space-effective solution. Two-fluid nozzles are simple, low-cost units that take up little space and are relatively low on resource consumption, but provide efficient stripping of key aroma compounds, resulting in a high yield.

The whole process is economical, results in a less costly drying stage and, we think, allows you to generate a product with a great aroma profile.

## **A user-friendly design**

The GEA aroma recovery system has been engineered for automatic start up, operation and shut down, so you can expect a fast, safe and reliable process, without the need for manual intervention. Clean-in-place (CIP) automation as standard helps to ensure thorough, fast cleaning, with reduced down time, so you can maximize use and get the most out of your investment.



#### System features, at a glance:

- Cost-effective, two-fluid nozzle
- Relatively low resource consumption
- Low heat impact
- Small footprint
- Automatic start up, operation and shut down
- Fully automated CIP
- Simple to install, maintain and operate

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