

Small Scale **Plants**



Dairy

Food

Starch

Nutraceutical



Small Scale plants



Small scale - high quality

The SiccaDania Small Scale Plants provide high-quality products at a smaller scale.

All small scale plants are available in a standard execution with all necessary components to "plug-and-produce". Everything included with no hidden extras. However, the small scale plants are all based on a modular design concept with a large range of available options. This flexible design enables our customers to customise each plant to match their exact requirements.

SiccaDania designs both small scale dryers and evaporators.

The spray drying process is scalable and available in many flexible configurations enabling process simulations of larger industrial size spray dryers.

Designed for safety

The spray dryers are produced in sanitary design and include state-of-the-art solutions regarding safety and cleaning. Furthermore, the spray dryers are equipped with sophisticated PLC-based control systems. All parts in contact with the product are made of stainless steel and all elastomers are food grade approved according to the GMP standards.

At SiccaDania, we have one of the most experienced teams in the industry. Our team has acquired extensive technology know-how from decades of work experience in the process industry.

[Learn more](#)



Dryers and Evaporators

Are you uncertain about which type of dryer you should choose or whether a small scale spray dryer is the way to proceed? SiccaDania offers the possibility to perform test work/small scale trials in our Innovation Centre in Denmark.

Small Scale Evaporator

The small scale evaporator, VAP250, has been designed for both continuous and batch evaporation of liquid products into concentrate. The evaporation process is scalable, and the small scale evaporator enables process simulation of larger industrial size evaporators.

VAP250

SD900

SD1600

Small Scale Spray Dryers

The SiccaDania small scale spray dryers are provided in either a single stage or a multi stage configuration.

Single stage configuration

In single stage configuration, the feed product and the process air are introduced into the top of the drying chamber. Here an instant contact between the atomised feed product and the heated process air takes place and the water evaporates from each droplet.

The air and powder are led through the drying chamber to the cyclone for efficient powder separation. The single stage configuration enables the production of single spherical particles.

Multi stage configuration

In multi stage configuration, the feed product and the process air are introduced into the top of the drying chamber. Here an instant contact between the atomised feed product and the heated process air takes place and the water evaporates from each droplet.

For further drying of the powder, an Internal Fluid Bed (IFB) with a separate air supply system is installed below the drying chamber. From this IFB, the powder is discharged whereas the fines are led to the cyclone together with the drying air.

For optimal product utilisation, a fines return system, situated below the cyclone, blows back the fines to the wet atomisation zone at the top of the drying chamber. The multi stage configuration enables the production of dust-free agglomerated particles.

SD2000

SD2500

SD3150





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Delivering superior process **technology** worldwide.

SiccaDania specialises in both stand-alone single unit operations as well as complete solutions for the dairy, food, starch and plant protein industry.

We make food processing better – more sustainable, healthier, safer



SiccaDania Group

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