

Homogeniser Application Laboratory



SPX Flow Technology homogeniser application laboratory

An exceptional chance to test and optimise your homogenising process before ordering

Research and development are important elements in SPX Flow Technology's (SPX FT) activities all over the world. Food, pharmaceutical, health care and chemical manufacturers are increasingly seeking cost effective solutions in the development and improvement of their products.

Our laboratory will be at your disposal to test how a high pressure homogenisation step might help you in your development work: Stabilisation of emulsions or suspensions, improving the viscosity and mouth

feel, improving cell disruption efficiency or improving penetration or absorption properties etc.

A customer test in the SPX FT homogeniser application laboratory is a first step in your development process where you test small quantities of your product. Together we process the samples you bring under different homogenising conditions. You receive analytical results and you receive all samples for your own evaluation of the requested properties.

A test ensures that you establish from the beginning which homogenisation process is the right one for your particular application



SPX, an active partner in your development process

How can SPX help you?

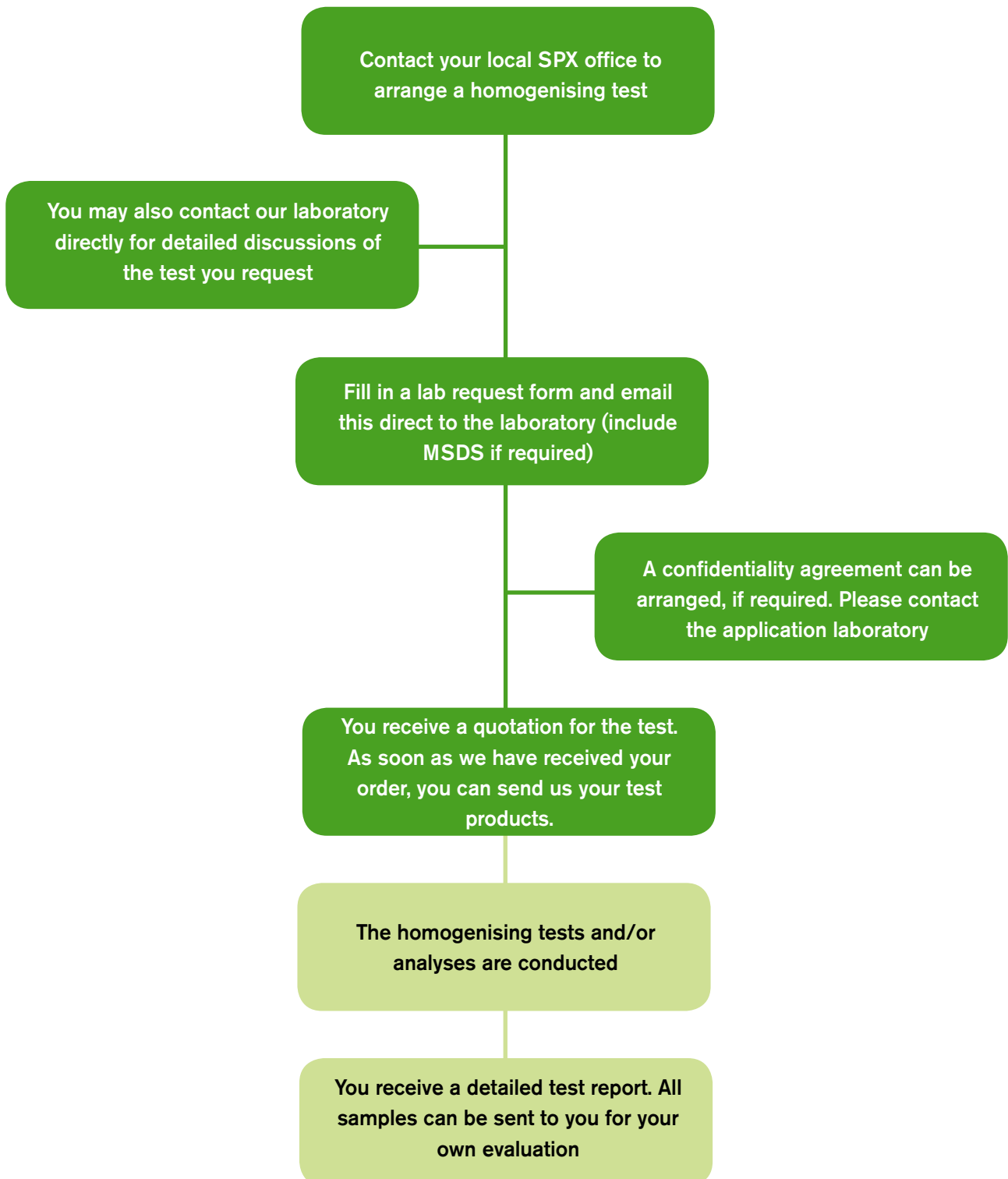
- Laboratory tests with your own products in our high pressure homogenisers
- Product analysis service with products homogenised in our laboratory or homogenised by you in your laboratory or in your production
- Application and process information with abstracts and bulletins, etc. describing how to homogenise various products. Homogeniser literature service is also provided.
- Homogeniser information incl. training for full understanding of the homogeniser and the homogenising process

Equipment at your disposal

- Laboratory homogenisers are available for single- and two-stage homogenisation at pressures up to 2,000 bar.
- Product amounts from 100 ml and up to 20 litres are easily processed. With amounts from 1 litre we can draw and test samples at varies pressures with single- and two-stage homogenisation and possibly also with several passes if requested.
- Equipment is available for particle size analyses in the range from 3 nm to 88 μm . For this we have an advanced Helos Sympatec laser diffraction based instrument as well as a Nicomp 370 Submicron Particle Sizer based on dynamic light scattering.
- We can also do microscopy, viscosity and stability measurements, etc. according to your requirements. Please contact the laboratory manager in Albertslund if you want to have further information about the available laboratory equipment.



How can homogenising tests in the SPX FT homogeniser application laboratory be arranged?



Visit the SPX FT homogeniser application laboratory and bring your own product for testing

We recommend to visit our laboratory and bring the product with you (or send it before the test) and assist us conducting the test with your product. We look forward to welcoming you. We will give you a first class introduction to the art of homogenisation.

This means that you will not only have your products homogenised but you will also receive relevant information and training to make sure that you will be prepared to work with a high pressure homogeniser in the future. A second option is to let us do the homogenising tests and analyses with your product. Whatever you prefer you will always receive a comprehensive and detailed test report from the tests.

All tests with customer's products are treated with confidentiality. If a confidentiality agreement is requested this can of course be arranged.

Our new SPX homogeniser application laboratory is situated in Albertslund, only 30 minutes away from Copenhagen Airport.

At SPX Flow Technology we are highly skilled people with long term experience in design, construction, sales and troubleshooting of homogenisers. Just as the laboratory manager responsible for our application laboratory in Albertslund has a broad experience and processing knowledge within homogeniser applications.



SPX Flow Technology Innovation Centre

Next step can be a test in our pilot plants at the SPX Innovation Centre in Silkeborg or you might proceed with your own development work in a rented or ordered laboratory homogeniser for further optimisation of homogenising parameters or future development of new formulations.

APV Innovation Centre is an active participant in all types of development, testing and application of APV equipment, systems and processing lines. All our facilities and services are designed to provide added value by minimising waste and energy requirements or by converting basic ingredients into new, competitive products.

Important keywords for the Centre are: innovation, optimum plant dimensioning, high quality products, great test flexibility (e.g. easy change of equipment during tests), tailor-made solutions and up-to-date knowledge of market requirements. Equally important are concepts such as confidentiality and professional customer service.

We are food technologists, process and production engineers with extensive experience in the food industry and with access to all the know-how and technology available throughout APV.

The Innovation Centre is situated in Silkeborg, only one hour away from Billund Airport with frequent international connections, and we look forward to welcoming you and your customers.



How can SPX Innovation Centre help you?

Test of equipment and training

- Test of equipment within APV's technologies:
 - Butter
 - Food
 - UHT (Ultra High Temperature)
 - Membrane
- Demonstration of the APV process capability
- Comparison of different processes, e.g. of direct versus indirect heating systems
- Test and development of new equipment
- Test of high-risk projects prior to order
- Rental of pilot plants for trials on customer site
- Practical and theoretical training of process people, e.g. CIP (Cleaning in Place), PID regulation, plant operation
- Troubleshooting

Testing of Products

- Rental of the Innovation Centre for test a new product on UHT plant, mixing equipment, etc.
- Development and test of new recipes
- Help with product analyses in a laboratory

High flexibility

The availability of a wide range of equipment enables tests of many different kinds of products and plants APV offers flexible and customised set-ups. For the specific trial product specialists, electricians and fitters are available before and during the trials ensuring efficient tests and reliable results.

Plant rentals

Customers running trials on their own premises can choose to rent whatever new plant and equipment they need to complete their testing. Rentals cover both pilot and full production-scale plant equipment and can be agreed with a purchase option after successfully completed trials.

Training courses

SPX Innovation Centre arranges courses for customers on topics of interest. APV customers value the possibility of training operators, production managers and engineers in an off-line environment - away from the pressures of day-to-day production.

In each case, a tailored training programme is developed. The courses are often structured around practical trials in our process hall. The theoretical lessons take place in one of our conference rooms and we provide all teaching materials.

SPX Flow Technology

SPX Corporation is a Fortune 500 multi-industry manufacturing leader. The company offers highly-specialized engineered solutions to solve critical problems for customers.

SPX is focused on providing solutions that support the expansion of global infrastructure, with particular emphasis on the growing worldwide demand for energy and power. Its innovative product portfolio, containing many energy efficient products, includes cooling systems for power plants throughout the world; custom engineered process equipment that assists a variety of flow processes including food and beverage manufacturing, oil and gas exploration, distribution and refinement and power generation; handheld diagnostic tools that aid in vehicle maintenance and repair; and power transformers that regulate voltage for electrical transmission and distribution by utility companies.

SPX is headquartered in Charlotte, North Carolina and has employees in over 40 countries worldwide. Visit www.spx.com. (NYSE: SPW)

SPX's Flow Technology segment designs, manufactures and markets engineered solutions and products used to process, blend, meter and transport fluids in addition to air and gas filtration and dehydration. Recognised for its leading brands and turnkey systems capability, the Flow Technology segment has global operations which serve the Food and Beverage, Power and Energy and Industrial markets.



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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.apv.com.

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.

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