Mixing is not about a machine specification, but about getting the right results from a process.

Through our Lightnin brand, SPX FLOW has been improving mixing processes for over 90 years. Our state of the art laboratory in Rochester, NY, USA, has worked closely with many customers in the chemical, mining, water and food industries to develop efficient mixing processes for even the most challenging of applications. Alongside a detailed understanding of the science of mixing, laboratory testing has proven to be the most efficient way to obtain desired production targets; including better mixing results, increased yield, faster blend times and reduced power consumption.

Some customers have developed their own laboratory capability and we work with them to support their mixing applications. However, operating your own laboratory is not always possible for all of our customers.

And it is not always practical or indeed possible to ship samples to the laboratory due to restrictions on the movement of chemicals or possible degradation of active ingredients caused by transport time and conditions. Similarly, resources are stretched and it might not be convenient for your team to attend our laboratory for testing.

**LightninMiniLab™**

To help solve logistical problems and ensure all of our global customers can more easily explore the advantages of the latest mixing technologies and benefit from our laboratory expertise, SPX FLOW has replicated and transformed equipment available at its leading mixing center in Rochester into a portable solution.

Known as the LightninMiniLab™, this compact laboratory can be shipped to customer plants throughout the world for onsite testing.
LIGHTNIN CREATES THE ADVANTAGE FOR YOU

Mixing is a science and the LightninMiniLab enables customers to easily explore the best options for their particular process and products. For example, it may be that simply changing the impeller type on a machine, rather than changing out a whole machine, could increase performance. Whatever is needed, there are clear benefits to having the test facilities on site. Plant operations can continue without the need for personnel to be offsite at a laboratory and a customer can be certain that their own experts will be on hand should their input be required.

All of the testing is performed by our experienced Application Engineers or Laboratory Technicians and are carried out within the plant environment that helps ensure no disparities are experienced with varying environmental conditions or degradation of the chemicals being tested. The confidential testing service further negates the need for intellectual property to leave the premises and, possibly, means that real chemicals rather than simulants can be tested.

At the end of all testing Lightnin prepares a test report for the customer making recommendations for process improvements wherever they are found, which might not include a new mixer.

ON-BOARD CAPABILITY

- 2.2kW (3 HP) Drive
- Ø 430mm (Ø17”) clear acrylic tank
- Configurable baffles
- Flat, Dished and Cone bottom shapes
- A100, A200, A310, A320 and CleanEdge Impellers
- Suitable for up to 15,000cP, SG 1 to 2.5
- Scales, Viscometer, Hydrometer
- Full Lightnin Data Acquisition
- Accepts international voltage and frequency
- Fits in export container 2.4m x 2.2m x 2.2m (8’ x 7’2” x 7’4”) Select SPX FLOW mixing equipment and you get more than an efficient and cost effective process. You get over 90 years of experience in superior processing technology. We were among the first to use computational fluid dynamics (CFD). This experience has enabled us to design and develop our equipment to suit your products for the 21st century.

LightninMiniLab™ provides reassurance to customers that the mixing solution will be fully optimized to their process.

*When Mixing Matters... we perfect it with you.*
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