

# SPXFLOW

## LightninMiniLab™

OUR LABORATORY IN YOUR PLANT



 Lightnin®

A World Leader in Industrial Mixing since 1923, Lightnin has 90 years of unrivaled experience in industrial mixing technology, process knowledge, and technological innovation. Lightnin enjoys a global reputation for durable, long-lasting mixers, agitators, aerators, and flocculators for fluid process systems. We offer a full spectrum of impeller designs for diverse applications. In addition, we offer a worldwide service network, mixer repair, gearbox repair, and replacement parts programs. Look to Lightnin for knowledge, technology, and service excellence.

SPX FLOW, Inc. (NYSE:FLOW) is a leading manufacturer of innovative flow technologies, many of which help define the industry standard in the market segments they serve. From its headquarters in Charlotte, North Carolina, it operates a sales and support network, centers of manufacturing excellence, and advanced engineering facilities, throughout the world. Its cutting-edge flow components and process equipment portfolio includes a wide range of pumps, valves, heat exchangers, mixers, homogenizers, separators, filters, UHT, and drying technology that meet many application needs. Its expert engineering capability also makes it a premium supplier of customized solutions and complete, turn-key packages to meet the most exacting of installation demands. Incorporating many leading brands, SPX FLOW has a long history of serving the food and beverage, power and energy, and industrial market sectors. Its designs and engineered solutions help customers drive efficiency and productivity, increase quality and reliability, and meet the latest regulatory demands. In-depth understanding of applications and processes, state-of-the-art Innovation Centers, and advanced pilot/testing technology further assist in optimizing processes and reducing timescales to reliably meet production targets. To learn more about SPX FLOW capabilities, its latest technology innovations and complete service offerings, please visit [www.spxflow.com](http://www.spxflow.com).

## Don't Choose a Mixer... Select a Mixing Result

**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.**



## Global locations

### AMERICAS

#### SPX FLOW, INC.

Rua João Daprat  
231 São Bernardo do Campo  
SP 09600-010, Brazil  
P: +55 11 2127 8278

#### SPX FLOW, INC. CHILE

SPX Chile Limitada  
Av. Ricardo Lyon 222 of. 503  
Providencia - Santiago  
Chile  
P: +56 2 8969 320

#### SPX FLOW, INC. MEXICO

SPX FLOW Technology Mexico S.A. DE C.V.  
Parque de Granada 71-101  
Col. Lomas de La Herradura  
52786 Huixquilucan  
Edo de Mexico  
P: +52 55 5293 9048

#### SPX FLOW, INC.

135 Mt. Read Blvd.  
Rochester, NY 14611  
P: (888) 649-2378 (MIX-BEST), US and Canada) or +1 (585) 436-5550  
F: (585) 436-5589  
E: [lightnin@spxflow.com](mailto:lightnin@spxflow.com) • [www.spxflow.com/lightnin](http://www.spxflow.com/lightnin)

### EMEA

#### SPX FLOW, INC.

Ocean House, Towers Business Park  
Didsbury, Manchester  
M20 2LY, UK  
P: +44 161 249 1170

#### SPX FLOW, INC. AFRICA

Unit 12B  
Growthpoint Office Park, Tonetti Street  
Midrand,  
South Africa  
P: +27 11 207 3700

#### SPX FLOW, INC.

##### MIDDLE EAST FZE

P.O Box 299745,  
Downtown Jebel Ali  
The Galleries 4  
Dubai, U.A.E.  
P: +971 4 8143400

### APAC

#### SPX FLOW, INC. PTY LTD

Suite 2.3, Quad 2  
8 Parkview Drive  
Homebush Bay NSW 2127, Australia  
P: +61 2 9763 4900

#### SPX FLOW, INC. CHINA

7F Nanfung Tower  
1568 Hua Shan Road  
Shanghai 200052 China  
P: +86 (21) 22085889

#### SPX FLOW, INC. SINGAPORE

25 International Business Park  
03-03/12 German Centre  
Singapore 609916  
P: +65 6264 4366

For other Sales locations, click  
[www.spxflow.com/lightnin/contacts/where-to-buy/](http://www.spxflow.com/lightnin/contacts/where-to-buy/)  
or use your SmartPhone and the QR Code.



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