SPXFLOW

Enhanced Classic Line (ECL) Mixers

PORTABLE/FIXED MOUNT MIXERS



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.

Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) innovates with customers to help feed and enhance the world by designing, delivering and servicing high value solutions at the heart of growing and sustaining our diverse communities. The company's product offering is concentrated in rotating, actuating and hydraulic technologies, as well as automated process systems, into food and beverage and industrial markets. SPX FLOW has approximately \$1.5 billion in annual revenues with operations in more than 30 countries and sales in more than 100 countries. To learn more about SPX FLOW capabilities, its latest technology innovations and complete service offerings, please visit www. spxflow.com.

The highest performance, quality range of portable mixers

The Lightnin Classic mixers have consistently evolved and improved through the years. These upgrades have provided our customers with improved mixer preformance and enhanced process results.

Now the Enhanced Classic Line (ECL) portable mixers give our customers an even stronger and more flexible product. Never before has there been a range of portable mixers offering so much quality and value. The ECL product range is designed to meet OSHA, CE, and ATEX standards.

MAINTENANCE FREE OPERATION

All shaft bearings are sealed for life. Gears are synthetic grease lubricated for continuous lifetime service.

ECL MOTOR OPTIONS:

- Electric Motors: A variety of enclosures, single or three phase, multiple voltage, and severe duty options are also available
- Air Motors: Variable speed air motors are safe for explosive environments. They are supplied with a built-in speed adjustment, air control valve and an option for non-lubricated vanes. Options include air filters, lubricators, and pressure regulators

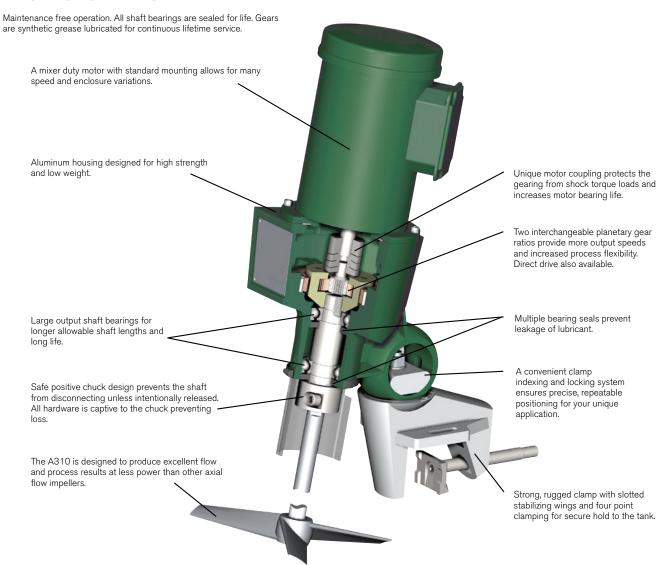


IMPELLER OPTIONS:

Lightnin is the world leader of impeller development. Using the latest computerized technology, Lightnin has produced a unique range of impellers dedicated to improving your specific process performance. Although the A310 is standard on ECL portables, there are many other impellers to satisfy your mixing requirements. Your Lightnin Sales Engineer will review your application and recommend the proper impeller.



THEORY OF OPERATION:



ECL PORTABLE MOUNTING OPTIONS:

- A Finite Element Analysis designed heavy-duty clamp assembly provides maximum strength
- The cup plate option offers a more permanent mounting
- Clear index allows repeatable position
- Four point clamp action for secure hold on tank

ECL PORTABLE OPTIONS:

- Stainless steel housing for clean applications on portable mounts
- Rigid coupling shaft attachment with male/female pilot to ensure shaft concentricity and minimize shaft run out
- Tachometer can be mounted remotely and provide a display of mixer output speed. A 4 to 20mA output signal is available for process control
- Variable speed control VFD











CLOSED TANK UNIT

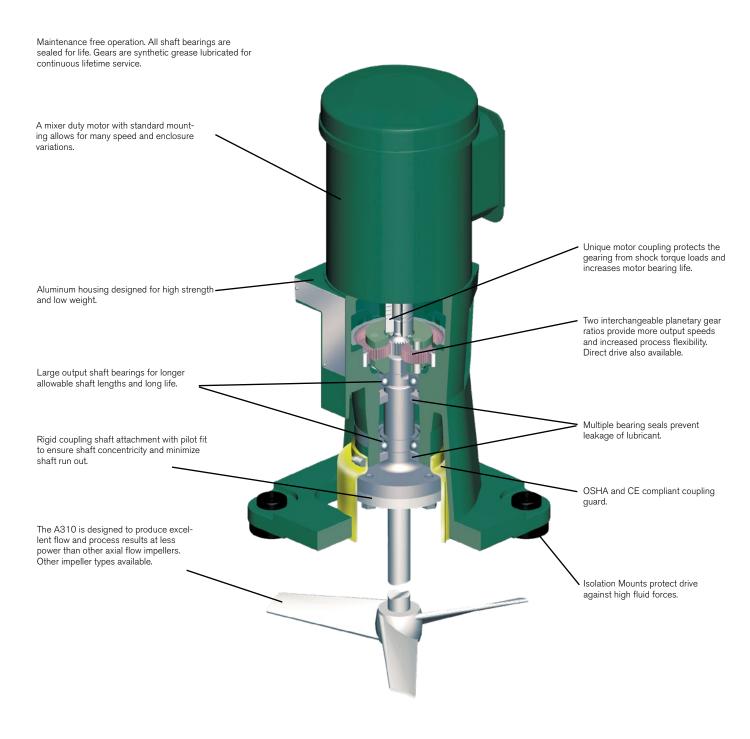


ECL SEALING OPTIONS:

- Packing: Lubricated, non-lubricated or food grade
- Single Seal: Dry running, lubricated or sanitary
- **Double Seal:** Dry running, lucricated or gas lift-off
- Seal Lubricators: Provide proper lubrication of seal faces
- Lip Seal: Multiple material options available



OPEN TANK UNIT





ATEX is applicable for all machine types for this product line:

- Portable
- Fixed Mount
- Open Tank

ECL FIXED MOUNT OPTIONS:

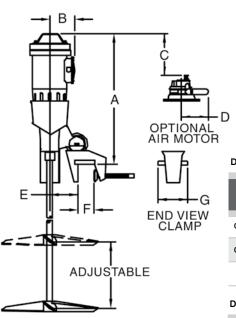
- Remote Tachometer provides a LCD display of mixer output speed. A 4 to 20 mA output signal is available for process control.
- Variable speed control A variety of voltage, NEMA, and IP enclosure options are available.
- Angle riser available on open tank units for off-center positioning of mixer.
- Closed tank flange options ANSI150lb. and DIN-PN10 solid stainless steel flange as standard. Oversized and sanitary available upon request.



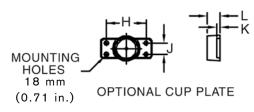




With every agitator purchase, Lightnin customers receive a product that has the built-in value of years of mixing experience in almost every known fluid mixing application.



PORTABLE ECL GEAR AND DIRECT DRIVE



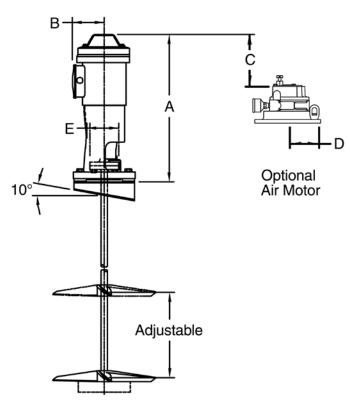
Dimensions are in inches

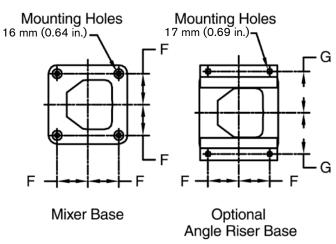
НР	A	В	С	D	E	F	G	н	1	к	ι	APPROX. WEIGHT (lbs.)
0.25-0.5	23.2	5.0	7.4	5.8	5.0	2.9	5.3	7.0	2.0	0.5	2.2	81
0.75-1.5	24.2	5.0	6.1	6.4	5.1	3.8	5.7	8.5	2.0	0.7	2.4	122
2-3	25.2	5.0	5.9	7.0	5.7	3.8	6.9	8.5	2.5	0.7	3.0	185

Dimensions are in mm

kW	А	В	С	D	Е	F	G	н	1	к	L	APPROX. WEIGHT (kg.)
0.25-0.37	550	101	151	85	127	67	134	178	51	12	87	34
0.75-1.5	650	145	185	104	130	89	143	216	51	18	102	55

OPEN TANK ECL GEAR AND DIRECT DRIVE





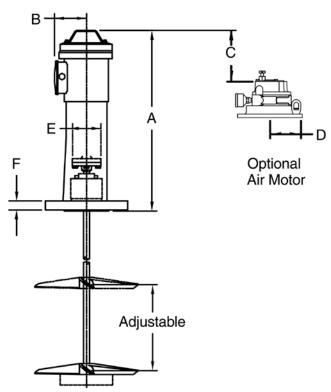
Dimensions are in inches

НР	А	В	С	D	Е	F	G	APPROX. WEIGHT (lbs.)
0.25-0.5	24.4	5.3	7.4	5.8	4.8	4.0	5.5	131
0.75-1.5	25.3	5.3	6.1	6.4	4.8	4.5	5.9	182
2-5	26.2	5.3	5.9	7.0	4.8	5.5	7.6	266

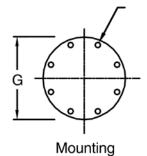
Dimensions are in mm

kW	A	В	С	D	E	F	G	APPROX. WEIGHT (kg.)
0 . 2 5 - 0.37	650	101	213	85	121	102	136	63
0.75-1.5	700	145	225	104	121	114	149	86
1.1-4.0	800	196	302	104	121	140	194	124

CLOSED TANK ECL GEAR AND DIRECT DRIVE



Mounting Holes (8)



Flange

150 lb. ANSI series flanges available in 5", 6", 8", 10", 12"

DIN series flanges available in DN 150 PN16 and DN 200 PN10.

Consult factory for sizes and dimensions.

Dimensions are in inches

НР	А	В	С	D	Е	F	APPROX. WEIGHT (lbs.)
0.25-0.5	29.8	5.3	7.4	5.8	4.8	1.7	183
0.75-1.5	31.8	5.3	6.1	6.4	4.8	1.7	234
2-5	32.8	5.3	5.9	7.0	4.8	1.7	318

Dimensions are in mm

kW	А	В	С	D	E	F	APPROX. WEIGHT (kg.)
0.25-0.37	650	101	213	85	121	102	63
0.75-1.5	915	145	245	104	121	32	86
1.1-4.0	1000	196	305	104	121	32	144

Enhanced Classic Line (ECL) Mixers

PORTABLE/FIXED MOUNT MIXERS

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