

Enhanced Classic Line (ECL) Mixers

PORTABLE/FIXED MOUNT MIXERS



A World Leader In Industrial Mixing Since
1923. Lightnin has over 85 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 Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader. The company's highly-specialized, engineered products and technologies serve customers in three primary strategic growth markets: infrastructure, process solutions, and diagnostic systems. Many of SPX's innovative solutions are playing a role in helping to meet rising global demand, particularly in emerging markets, for electricity, processed foods and beverages and vehicle services. The company's products include thermal heat transfer equipment for power plants; power transformers for utility companies; process equipment for the food & beverage industry; and diagnostic tools and equipment for the vehicle service industry. For more information, please visit www.spx.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

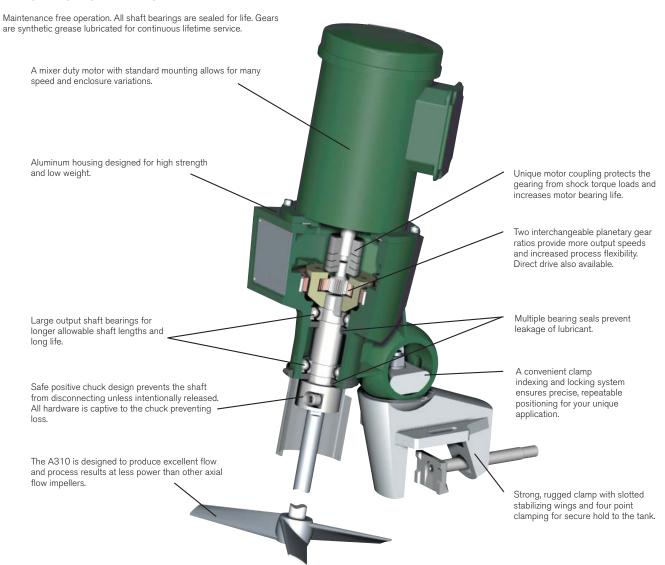


IMPELLER OPTIONS:

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



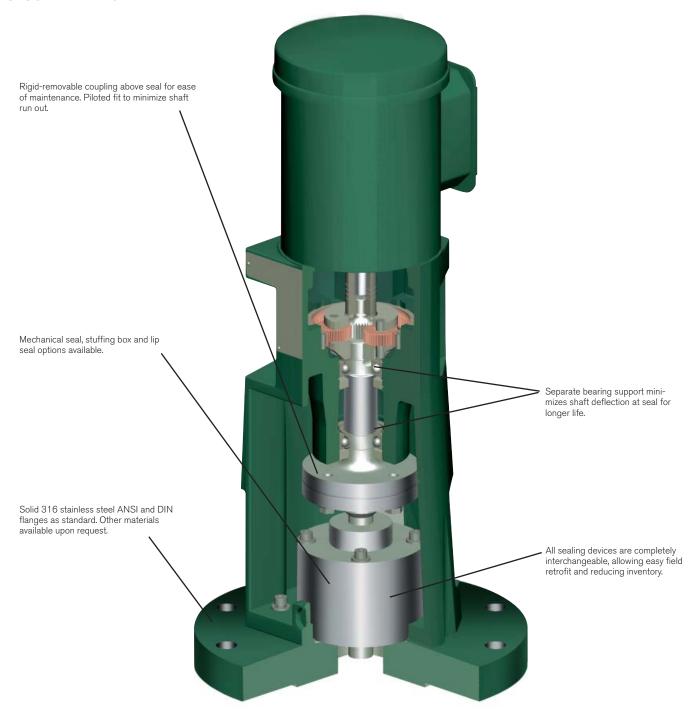








CLOSED TANK UNIT

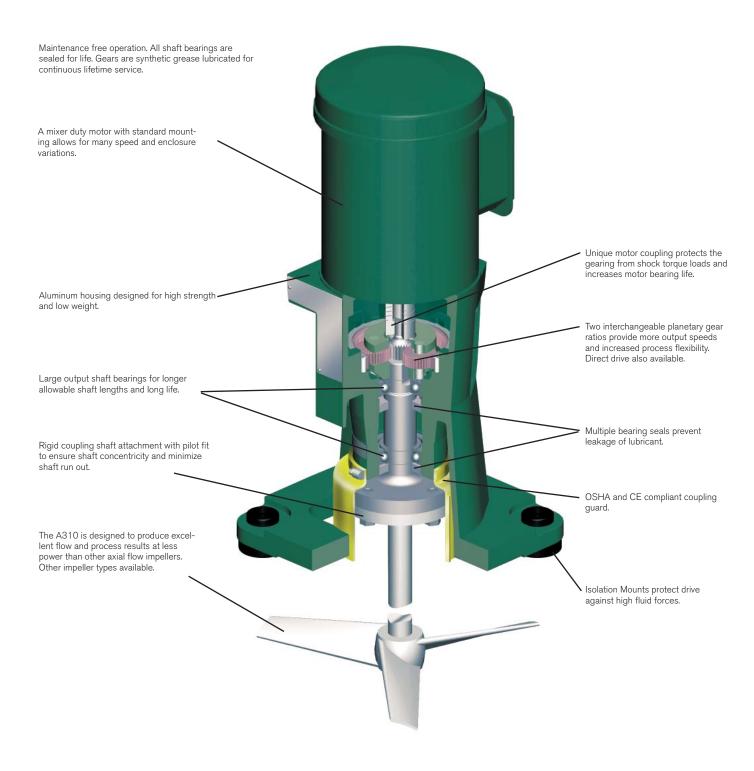


ECL SEALING OPTIONS:

- 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

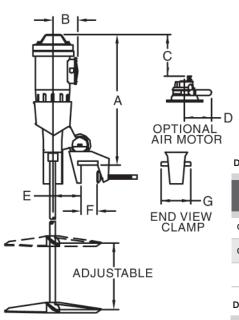
ECL FIXED MOUNT OPTIONS:

- 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 Solid alloy, ANSI150lb., and DIN-PN10 solid stainless steel flange as standard. Oversized and sanitary available upon request.

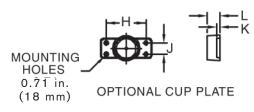




With every agitator purchase, Lightnin customers receive a product that has the built-in value of years of mixing experience in almost every known fluid mixing application.



PORTABLE ECL GEAR AND DIRECT DRIVE



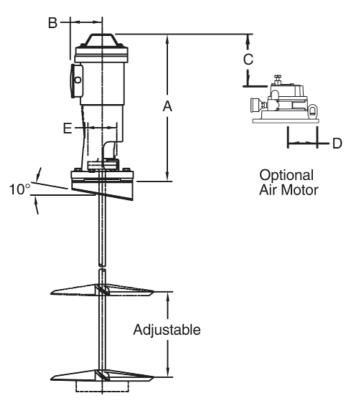
Dimensions are in inches

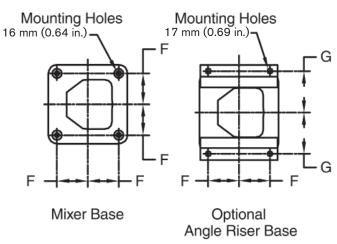
НР	А	В	С	D	Е	F	G	н	,	К	L	APPROX. WEIGHT (lbs.)
0.25-0.5	23.2	5.0	7.4	5.8	5.0	2.9	5.3	7.0	2.0	0.5	2.2	81
0.75-1.5	24.2	5.0	6.1	6.4	5.1	3.8	5.7	8.5	2.0	0.7	2.4	122
2-3	25.2	5.0	5.9	7.0	5.7	3.8	6.9	8.5	2.5	0.7	3.0	185

Dimensions are in mm

kW	А	В	С	D	Е	F	G	н	,	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





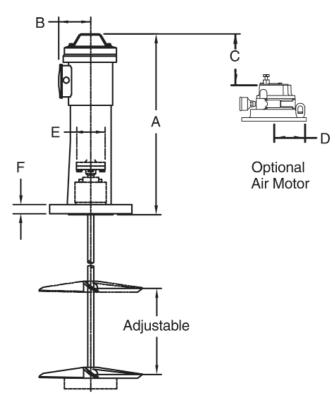
Dimensions are in inches

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

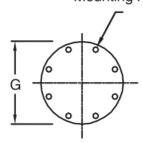
Dimensions are in mm

kW	А	В	С	D	Е	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)



Mounting 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	E	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



Global locations

AMERICAS

SPX FLOW TECHNOLOGY

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

SPX FLOW TECHNOLOGY CHILE

SPX Chile Limitada Av. Ricardo Lyon 222 of. 503 Providencia - Santiago

Chile

P: +56 2 8969 320

SPX FLOW TECHNOLOGY MEXICO

APV Soluciones Integrales, SA de CV Amargura # 60 Primer Piso Col. Lomas de La Herradura 52785 Huixquilucan Edo de Mexico P: +52 55 5293 9048

EMEA

Unit 12B

SPX FLOW TECHNOLOGY

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

SPX FLOW TECHNOLOGY AFRICA

Growthpoint Office Park, Tonetti Street Midrand, South Africa

P: +27 11 207 3700

SPX FLOW TECHNOLOGY MIDDLE

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

APAC

SPX FLOW TECHNOLOGY PTY LTD

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

SPX FLOW TECHNOLOGY CHINA

2F, Treasury Centre No. 1568 Huashan Road Shanghai 200052, China P: +86 (21) 22085889

SPX FLOW TECHNOLOGY SINGAPORE

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

SPX FLOW TECHNOLOGY

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@spx.com • www.lightninmixers.com

SPX 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. Please contact your local sales representative for product availability in your region. For more information visit www.spx.com.

The green ">" is a trademark of SPX Corporation, Inc.

ISSUED 05/2012 B-940

COPYRIGHT © 2012 SPX Corporation