

EG SERIES

**Oil-Injected Rotary Screw
Air Compressors**

ELGi[®]
Always Better.

**The Technological Edge
To Power Your Business**

11 – 250 kW / 15 – 300 HP (50/60 Hz)



EG SERIES

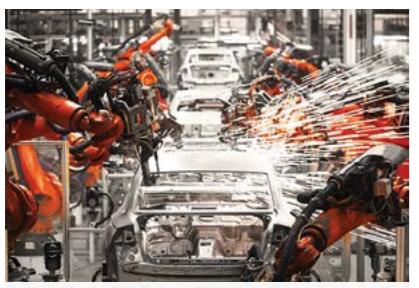
**Superior Energy Efficiency | Low Total Cost Of Ownership
Industry Leading Warranty | Best-In-Class Reliability**

Power consumption on your mind?

Around the world, changes are being made in the way businesses are powered, and in general, the way compressed air is used as a power in everyday life. These changes have implications for companies, governments, and individuals in the future.

Automotive, Chemical, Food and Beverage, Fast Moving Consumer Goods, Cement, Packaging, Pharmaceuticals, Textile, Ceramics industries and workshops rely heavily on compressed air. These industries fuel the world's economy.

Applications



Automotive



Food and Beverage



Cement



Packaging



Mining



Agriculture



Textile



Ceramic



Manufacturing

EG SERIES

THE ECO-FRIENDLY ENERGY-EFFICIENT COMPRESSOR



With high energy costs, revised regulatory and sustainability goals, and increasing competition, it is a continuous challenge for plant managers to reduce costs, achieve high productivity and improve energy efficiency.

For industries using air compressors for day-to-day operations, the energy cost has become a top concern. ELGi's screw compressors are engineered to be energy efficient and environmentally friendly to minimise energy costs for customers.

The airend's screw elements are manufactured in-house using state-of-the-art machining centres. ELGi is one of the few companies capable of design and manufacturing a wide range of oil lubricated and oil free airends.

ELGi's patent portfolio is a testament to the company's continuous research and innovation capabilities.

* All images are for representative purpose only. Actual product may vary.

Features and Benefits



Highly Efficient Airends Superior Energy Savings

ELGi's unique airends are equipped with in-house developed η -V profile rotors, with 4/5 lobe combination. The rotors are designed to run at low speeds to increase efficiency and life. The unique airend supplies compressed air for all demanding applications while ensuring minimal impact on the environment. The 2 stage airends in the 90-110SP machines take the efficiency numbers to the next level and make them best-in-class.



Advanced Package Design Functional and Aesthetic

The package is configured with subsystems that are designed to minimize system losses and maximize energy savings. The special design of the compressor and its door panels allows easy serviceability and the aesthetically built acoustic enclosure keeps noise levels in check.



Low Oil Carry Over (< 1ppm) Superior Quality of Air

ELGi has developed a unique OSBIC process (Oil Separation by Impact and Centrifugal action) to separate air and oil with minimum pressure drop. This process involves removing oil in three stages, delivering consistent low oil carryover. This efficient method also increases the life of the air-oil separation filter.



Efficient Cooling System Extended Life and Cool Air

The cooling system with optimal fans and a large cooler surface area offers superior cooling performance. The integrated fan motor uses significantly low power and maintains an optimal temperature range of oil, thereby increasing the life of the parts. This smart cooling system keeps the discharged compressed air temperature low easing the load on the downstream equipment.



Motors Reliable and Efficient

The motors with a larger core and increased windings provide better thermal management. Additional fins on the face of the motor with the lowest air block over the frame provide better reliability. The four/six pole motors offer better efficiency than other motors.



Intake Valve System Reduced Starting Load

The new generation intake valve with an integrated blow-down unit, solenoid control, and actuator, is designed for high efficiency. Modulation unit* provides savings of upto 20% of total power consumption at 60% flow.

Load/unload System



Suction Modulation System



* Available in IE4/IE5+ efficiency configurations for select models.

■ Actual Air Demand ■ Compressor Air Delivery

*Available for models from 55kW and above



Reliability Under Extreme Conditions Robust and Reliable

The EG Series compressors are robust and reliable. They are designed to perform at extreme temperatures - from cold to hot and from dry to extremely humid conditions with design temperatures up to 50° c (115 degree F for Americas).

Optional outdoor protection* and low ambient models are available*

*For select regions



Custom-Designed Moisture Separator Longer Life of End-Use Equipment

The EG Series air compressor has a custom-designed centrifugal type moisture separator with an automatic drain that comes as a part of the package at no extra cost. The custom-designed separator removes over 99% of bulk water from the compressed air, resulting in a corrosion-free, longer life of end-use equipment and reducing the load on the dryer.



Safety and Protection

EG Series compressors are designed to ensure the highest level of safety.

High-pressure trip | High-temperature trip | Pressure relief valve | Low voltage trip | Single phase preventer | Reverse rotation prevention.



Best-In-Class Warranty

Superior warranty of upto 10 years on the airend* and package warranty of 5 years* irrespective of operating hours.

*In select regions; contact your local ELGi representative for further details; T&C Apply.



EG Series

The Technological Edge to Power Your Business

Two-Stage Air Filtration

Increased Life of Consumables

Ease Of Maintenance

Ease of Access to Components with Removable Panels

Neuron 4 Controller

Advanced, Intelligent Controller for Safety and Reliability

Energy-Efficient

Eco-Friendly Compressors

Robust Cooling System

Reduced Air outlet and Oil Temperature

Silent and Aesthetic

Enclosure Designed to Industrial Standards

Excellent Oil Separation OSBIC

1 PPM Oil Carry Over

Optional Built-in VFD

Compact and Saves Floor Area

Safety Compliant Package

CE Certified

Highly Efficient Motor*

Energy Savings with IE4

Efficiency beyond regulation IE5+

*In select Models

Neuron 4 Advanced Controller



Reports

Neuron 4 is everything that you will need for a superior and reliable compressor operation. The industrial - grade, 7" touchscreen user interface offers a seamless experience in setting the compressor operational parameters. The Neuron 4 with advanced processor and hardware enables:

- Sequencing of up to 8 compressors
- Pressure schedulers to optimize compressor performance
- An array of communication options and protocols with Ethernet, RS485, Bluetooth protocols, CAN, TCP/IP, MODBUS
- Industry 4.0 compatible with optional Air~Alert (IoT) and OPC-UA communication protocol
- Multi lingual with support up to 32 languages
- Mimic display
- Reverse rotation prevention.



Save Energy with Heat Recovery System

ELGi's Heat Recovery System is an accessory that can be added to the EG Series compressor.

The Heat Recovery System can recover up to 76% of the waste heat generated during the compression process which can then in turn be used to heat water.



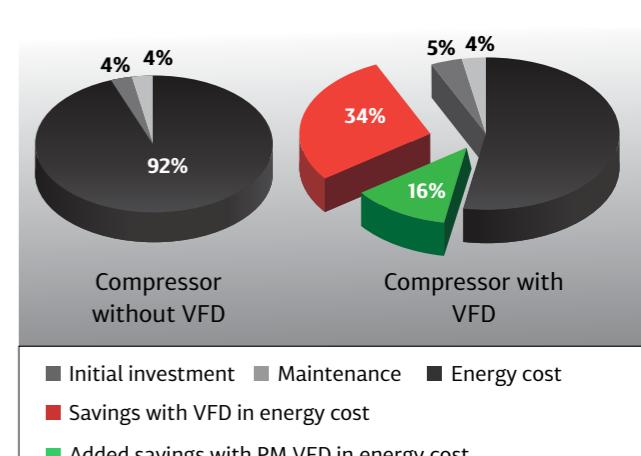
Save Energy with optional VFD

The In-built ELGi Variable Frequency Drives (VFD) matches the compressor output with the demand by varying motor speed which reduces the power consumption and subsequently results in savings.

The VFD helps in eliminating frequent load-unload cycles. In a fixed speed compressor with a Star-Delta starter, the starting current is as high as three times the full load current (FLC). With ELGi VFD, the starting current is less than the FLC.

Advantages:

- Energy savings
- Improved power factor
- Low starting current and hence reduced maximum demand
- Reduced maintenance
- High efficiency combined efficiency drive system



Power Saving with VFD System



Technical Specifications - 50Hz Fixed Speed

Model	Motor Power		Working Pressure		Free Air Delivery		Weight		Noise	Dimensions L x B x H
50Hz	kW	hp	bar g	psi g	m³/min	cfm	lbs	kg	dB(A)	mm
EG 11	11	15	7.0	102	2.01	71	1301	590	69	1356 x 721 x 1370
			8.0	116	1.81	64				
			9.5	138	1.64	58				
			12.5	181	1.39	49				
EG 15	15	20	7.0	102	2.78	98	1389	630	69	1356 x 721 x 1370
			8.0	116	2.63	93				
			9.5	138	2.27	80				
			12.5	181	1.98	70				
EG 18	18	25	7.0	102	3.40	120	1587	720	69	1500 x 821 x 1370
			8.0	116	3.23	114				
			9.5	138	2.83	100				
			12.5	181	2.32	82				
EG 22	22	30	7.0	102	4.02	142	1587	720	69	1500 x 821 x 1370
			8.0	116	3.91	138				
			9.5	138	3.34	118				
			12.5	181	2.75	97				
EG 26	26	35	4.5	65	5.15	182	2599	1179	69	1705 x 1111 x 1500
			7.0	102	5.01	177				
			8.0	116	4.47	158				
			9.5	138	4.16	147				
EG 30	30	40	4.5	65	5.95	210	2599	1179	69	1705 x 1111 x 1500
			7.0	102	5.83	206				
			8.0	116	5.18	183				
			9.5	138	4.87	172				
EG 37	37	50	4.5	65	7.28	257	2778	1260	69	1705 x 1111 x 1500
			7.0	102	7.22	255				
			8.0	116	6.65	235				
			9.5	138	5.97	211				
EG 45	45	60	4.5	65	8.86	313	2791	1177	69	1705 x 1111 x 1500
			7.0	102	8.75	309				
			8.0	116	8.30	282				
			9.5	138	7.48	261				
EG 55	55	75	4.5	65	10.90	385	3743	1698	69	1959 x 1266 x 1754
			7.0	102	10.76	380				
			8.0	116	10.11	357				
			9.5	138	9.29	328				
EG 75	75	100	4.5	65	14.98	529	4387	1990	69	2065 x 1355 x 1970
			7.0	102	14.95	528				
			8.0	116	14.02	495				
			9.5	138	12.86	454				
EG 75SP	75	100	4.5	65	18.1	395	6160	2794	76	2516 x 1884 x 1925
			7.0	102	14.95	528				
			8.0	116	14.73	520				
			9.5	138	13.45	475				
EG 90	90	125	4.5	65	18.1	395	6834	3100	75	2830 x 1640 x 2125
			7.0	102	16.6	585				
			8.0	116	15.2	538				
			10.0	145	13.3	470				

Technical Specifications - 50Hz Fixed Speed

Model	Motor Power		Working Pressure		Free Air Delivery		Weight		Noise	Dimensions L x B x H
50Hz	kW	hp	bar g	psi g	m³/min	cfm	lbs	kg	dB(A)	mm
EG 90P	90	125	4.5	65	17.27	610	6570	2980	76	2916 x 1884 x 1925
			7	102	17.05	602				
			8	116	15.66	553				
			9.5	138	13.45	475				
EG 90SP	90	125	12.5	181	11.86	419	6872	3117	76	2916 x 1884 x 1925
			7.0	102	17.84	630				
			8.0	116	17.13	605				
			10.0	145	14.87	525				
EG 110	110	150	12.5	181	12.01	424	6834			

Technical Specifications - 50Hz Variable Speed

Model	Motor Power		Working Pressure		Free Air Delivery		Weight		Noise	Dimensions L x B x H
50Hz	kW	hp	bar g	psi g	m³/min	cfm	lbs	kg	dB(A)	mm
EG 11PM	11	15	7	102	0.48~1.21	17~75	1283	582	69	1356 x 721 x 1370
			8	116	0.48~1.98	17~70				
			9.5	138	0.48~1.87	17~66				
			12.5	181	0.48~1.36	17~48				
EG15 PM	15	20	7	102	0.48~2.63	17~93	1283	582	69	1356 x 721 x 1370
			8	116	0.48~2.44	17~86				
			9.5	138	0.48~2.21	17~78				
			12.5	181	0.48~1.84	17~65				
EG18 PM	18	25	7	102	0.85~3.96	30~140	1477	670	69	1500 x 821 x 1370
			8	116	0.85~3.68	30~130				
			9.5	138	0.85~2.78	30~98				
			12.5	181	0.85~2.38	30~84				
EG22 PM	22	30	7	102	0.85~4.33	30~153	1477	670	69	1500 x 821 x 1370
			8	116	0.85~3.96	30~140				
			9.5	138	0.85~3.43	30~121				
			12.5	181	0.85~2.8	30~99				
EG30 PM	30	40	7	102	0.85~5.66	30~200	2401	1089	69	1705 x 1111 x 1570
			8	116	0.85~5.24	30~185				
			9.5	138	0.85~4.5	30~159				
			12.5	181	0.85~3.72	30~131				
EG30x PM	30	40	7	102	1.7~6.2	60~219	2501	1135	69	1705 x 1111 x 1570
			8	116	1.7~5.47	60~193				
			9.5	138	1.7~5.15	60~182				
			12.5	181	1.7~4.19	60~148				
EG37 PM	37	50	7	102	1.7~7.93	60~280	2501	1135	69	1705 x 1111 x 1570
			8	116	1.7~7.5	60~265				
			9.5	138	1.7~6.14	60~217				
			12.5	181	1.7~5.3	60~187				
EG45 PM	45	60	7	102	1.7~8.78	60~310	2501	1135	69	1705 x 1111 x 1570
			8	116	1.7~8.21	60~290				
			9.5	138	1.7~7.48	60~264				
			12.5	181	1.7~6.29	60~222				
EG 55	55	75	4.5	65	2.55 ~ 10.90	90 ~ 385	3887	1763	69	1959 x 1266 x 1754
			7.0	102	2.58 ~ 10.76	91 ~ 380				
			8.0	116	2.55 ~ 10.11	90 ~ 357				
			9.5	138	2.55 ~ 9.29	90 ~ 328				
			12.5	181	3.37 ~ 7.59	119 ~ 268				
EG 75	75	100	4.5	65	2.3~14.98	81~529	4497	2040	69	2065 x 1355 x 1970
			7	102	2.3~14.95	81~528				
			8	116	2.13~14.02	75~495				
			9.5	138	2.7~12.86	95~454				
EG75 SP	75	100	7	102	6.8~14.95	240~528	6371	2890	76	2516 x 1884 x 1925
			8	116	6.94~14.73	245~520				
			9.5	138	6.94~13.45	245~475				
			12.5	181	6.94~11.19	245~395				
EG 90	90	125	7.0	102	14.07 ~ 16.7	235 ~ 590	6096	2765	75	2830 x 1640 x 2125
			8.0	116	6.59 ~ 15.2	233 ~ 538				
			10.0	145	6.31 ~ 13.3	223 ~ 470				
EG 90P	90	125	7	102	6.68~17.05	236~602	7121	3230	76	2916 x 1884 x 1925
			8	116	6.65~15.66	235~553				
			9.5	138	6.46~13.45	228~475				
			12.5	181	5.64~11.86	199~419				
EG 90SP	90	125	7.0	102	7.5~17.84	265~630	7083	3213	76	2916 x 1884 x 1925
			8.0	116	8.13~17.13	287~605				
			10.0	145	7.87~14.87	278~525				
			12.5	181	6.94~11.78	245~416				

Technical Specifications - 50Hz Variable Speed

Model	Motor Power		Working Pressure		Free Air Delivery		Weight		Noise	Dimensions L x B x H
50Hz	kW	hp	bar g	psi g	m³/min	cfm	lbs	kg	dB(A)	mm

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Elgi Equipments Limited is a global air compressor manufacturer with a broad line of innovative and technologically superior compressed air systems.

ELGi has consistently worked towards ensuring that its customers achieve their productivity goals while keeping the cost of ownership low. ELGi offers a complete range of

compressed air solutions from oil lubricated and oil free rotary screw compressors, oil lubricated and oil free reciprocating compressors and centrifugal compressors, to dryers, filters, and downstream accessories.

The company's portfolio of over 400 products has found wide application across industries.

60+

Years of Customer-Centric Innovation

2 Mn+

Installations Worldwide

120+

Countries and Counting

DEMING PRIZE 2019



ELGi is the first globally established industrial air compressor manufacturer to be awarded the Deming Prize for Excellence in Total Quality Management.

