

# EG SERIES

Oil-Injected Rotary Screw  
Air Compressors

The Technological Edge  
To Power Your Business

11 – 250 kW / 15 – 300 HP (50/60 Hz)

**ELGi**<sup>®</sup>  
Always Better.



# 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

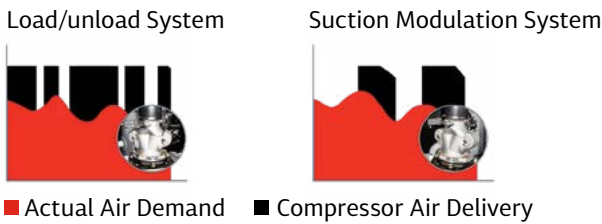
The motors with a larger core and increased windings provide better thermal management. Additional fins on the face of the motor with the lowest air block over the frame provide better reliability. The four/six pole motors offer better efficiency than other motors.

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



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.



\*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.



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 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

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+

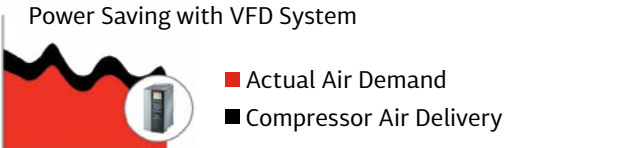
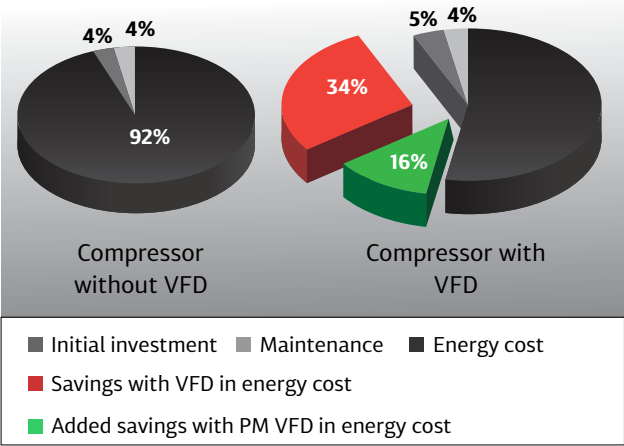
\*In select Models



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.



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 x1500	
			7.0	102	5.01	177					
			8.0	116	4.47	158					
			9.5	138	4.16	147					
			12.5	181	3.43	121					
EG 30	30	40	4.5	65	5.95	210	2599	1179	69	1705 x 1111 x1500	
			7.0	102	5.83	206					
			8.0	116	5.18	183					
			9.5	138	4.87	172					
			12.5	181	4.05	143					
EG 37	37	50	4.5	65	7.28	257	2778	1260	69	1705 x 1111 x1500	
			7.0	102	7.22	255					
			8.0	116	6.65	235					
			9.5	138	5.97	211					
			12.5	181	5.24	185					
EG 45	45	60	4.5	65	8.86	313	2791	1177	69	1705 x 1111 x1500	
			7.0	102	8.75	309					
			8.0	116	8.30	282					
			9.5	138	7.48	261					
			12.5	181	6.23	220					
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					
			12.5	181	7.59	268					
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					
			12.5	181	11.19	395					
EG 75SP	75	100	7	102	14.95	528	6160	2794	76	2516 x 1884 x 1925	
			8	116	14.73	520					
			9.5	138	13.45	475					
			12.5	118	11.19	395					
EG 90	90	125	4.5	65	19.9	706	6834	3100	75	2830 x 1640 x 2125	
			7.0	102	16.6	585	5952	2700			
			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					
			12.5	181	11.86	419					
EG 90SP	90	125	7.0	102	17.84	630	6872	3117	76	2916 x 1884 x 1925	
			8.0	116	17.13	605					
			10.0	145	14.87	525					
			12.5	181	12.01	424					
EG 110	110	150	4.5	65	24.3	858	7496	3400	75	2830 x 1640 x 2125	
			7.0	102	19.8	706	6834	3100			
			8.0	116	18.4	649					
			10.0	145	16.4	580					
EG 110P	110	150	4.5	65	22.09	780	7055	3200	76	2916 x 1884 x 1925	
			7	102	21.55	761					
			8	116	20.50	724					
			9.5	138	17.50	618					
			12.5	181	14.87	525					
EG 110SP	110	150	7.0	102	21.66	765	7467	3387	76	2916 x 1884 x 1925	
			8.0	116	20.61	728					
			10.0	145	17.58	621					
			12.5	181	14.62	516					
EG 132	132	175	4.5	65	29.1	1030	8157	3700	75	2830 x 1640 x 2125	
			7.0	102	24.2	855	7496	3400			
			8.0	116	22.4	791					
			10.0	145	20.1	710					
EG 132P	132	175	4.5	65	26.76	945	8752	3970	76	2916 x 1884 x 1925	
			7	102	26.51	936					
			8	116	24.35	860					
			9.5	138	21.52	760					
EG 132SP	160	200	7	102	27.27	963	11144	5055	76	2916 x 1884 x 2000	
			8	116	25.20	890					
			10	138	22.37	790					
			12.5	181	17.53	619					
EG 160	160	200	7.0	102	29.1	1026	8157	3700	75	2830 x 1640 x 2125	
			8.0	116	27.0	954					
			10.0	145	24.05	850					
EG 160P	160	200	4.5	65	31.15	1100	9105	4130	76	2916 x 1884 x 1925	
			7	102	30.81	1088					
			8	116	28.77	1016					
			9.5	138	25.71	908					
			12.5	181	21.44	757					
EG 160SP	160	200	7	102	32.00	1130	11277	5115	76	2916 x 1884 x 2000	
			8	116	30.58	1080					
			10	138	27.41	968					
			12.5	181	21.44	757					
EG 200	200	250	4.5	65	38.51	1360	11673	5295	78	3490 x 2251 x 2441	
			7.0	102	37.94	1340					
			8.0	116	34.48	1218					
			9.5	138	31.15	1100					
			12.5	181	25.77	910					
EG 250	250	300	4.5	65	43.60	1540	12467	5655	78	3490 x 2251 x 2441	
			7.0	102	43.18	1525					
			8.0	116	41.77	1475					
			9.5	138	37.88	1320					
			12.5	181	31.15	1100					



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	0.48~2.12	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				
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	4.5	65	2.3~14.98	81~529	6371	2890	76	2516 x 1884 x 1925
			7	102	2.3~14.95	81~528				
			8	116	6.94~14.73	245~520				
			9.5	138	6.94~13.45	245~475				
EG 90	90	125	4.5	65	2.3~14.98	81~529	6096	2765	75	2830 x 1640 x 2125
			7	102	2.3~14.95	81~528				
			8	116	6.65~15.66	235~553				
			9.5	138	6.46~13.45	228~475				
EG 90P	90	125	4.5	65	2.3~14.98	81~529	7121	3230	76	2916 x 1884 x 1925
			7	102	6.68~17.05	236~602				
			8	116	6.65~15.66	235~553				
			9.5	138	6.46~13.45	228~475				
EG 90SP	90	125	4.5	65	2.3~14.98	81~529	7083	3213	76	2916 x 1884 x 1925
			7	102	6.68~17.05	236~602				
			8	116	6.65~15.66	235~553				
			9.5	138	6.46~13.45	228~475				

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 110	110	150	7.0	102	7.87 ~ 19.9	278 ~ 701	6978	3165	75	2830 x 1640 x 2125				
			8.0	116	7.75 ~ 18.4	274 ~ 649								
			10.0	145	7.75 ~ 16.4	274 ~ 580								
EG 110P	110	150	7	102	8.1~21.55	286~761	7496	3400	76	2916 x 1884 x 1925				
			8	116	8.04~20.5	284~724								
			9.5	138	7.87~17.5	278~618								
			12.5	181	7.14~14.87	252~525								
			7.0	102	8.16~21.66	288~765					7696	3491	76	2916 x 1884 x 1925
			8.0	116	7.99~20.61	282~728								
10.0	145	7.93~17.38	280~621											
EG 110SP	110	150	12.5	181	9.77~14.62	345~516								
			7.0	102	10.00 ~ 24.2	353 ~ 855					7639	3465	75	2830 x 1640 x 2125
			8.0	116	9.85 ~ 22.4	348 ~ 791								
EG 132	132	175	10.0	145	9.65 ~ 20.1	341 ~ 710								
			7	102	10.48~26.51	370~936					9458	4290	76	2916 x 1884 x 1925
			8	116	10.34~24.35	365~860								
EG 132P	132	175	9.5	138	10.45~21.52	369~760								
			12.5	181	7.59~17.53	268~619					11431	5185	76	2916 x 1884 x 2000
			7	102	10.42~27.27	368~963								
EG 132SP	132	175	8	116	10.19~25.2	360~890								
			10	138	9.91~22.37	350~790								
			12.5	181	9.91~17.53	350~619								
EG 160	160	200	7.0	102	11.60 ~ 29.1	411 ~ 1026	8422	3820	75	2830 x 1640 x 2125				
			8.0	116	11.75 ~ 26.5	415 ~ 935								
			10.0	145	11.55 ~ 24.05	408 ~ 850								
EG 160P	160	200	7	102	12.71~30.81	449~1088	9568	4340	76	2916 x 1884 x 1925				
			8	116	12.57~28.77	444~1016								
			9.5	138	12.49~25.71	441~908								
			12.5	181	9.85~21.44	348~757								
EG 160SP	160	200	7	102	12.8~32	452~1130	11541	5235	76	2916 x 1884 x 2000				
			8	116	12.23~30.58	432~1080								
			10	138	11.33~27.41	400~968								
			12.5	181	11.33~21.44	400~757								
EG 200	200	250	4.5	65	15.4 ~ 38.51	544 ~ 1360	11949	5420	78	3490 x 2251 x 2441				
			7.0	102	14.8 ~ 37.94	525 ~ 1340								
			8.0	116	14.7 ~ 34.48	520 ~ 1218								
			9.5	138	14.4 ~ 31.15	512 ~ 1100								
			12.5	181	12.57 ~ 25.77	444 ~ 910								
EG 250	250	300	4.5	65	17.4 ~ 43.6	614 ~ 1540	12743	5780	78	3490 x 2251 x 2441				
			7.0	102	18.2 ~ 43.18	642 ~ 1525								
			8.0	116	18.0 ~ 41.77	635 ~ 1475								
			9.5	138	17.7 ~ 37.38	625 ~ 1320								
			12.5	181	15.34 ~ 31.15	542 ~ 1100								



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.

