

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, Pharma, Textile, Ceramics industries and Workshops rely heavily on compressed air. These industries fuel the world's economy.

Applications



Automotive

















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.

Features and Benefits



Highly Efficient AirendSuperior Energy Efficiency

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.



MotorsReliable 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-pole motors make it more efficient at the operating shaft power.



Load/unload System



Suction Modulation



Power Saving with VFD System

Actual Air Demand Compressor Air Delivery



Advanced Package Design Functional and Aesthetic

The package is configured with subsystems that are designed to minimize system losses and maximize energy savings. While the design offers easy serviceability, the aesthetically built acoustic enclosure keeps the noise levels in check.



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. The intake valve optimally controls the compressor capacity during start-up, reducing the starting load on the motor.

Modulation unit* provides significant energy savings during fluctuating compressed air demand. This optimal capacity control results in direct savings of approximately 20% of power consumption at 60% load.

*Available for models from 55kW and above



Very 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 in the compressed air reducing the oil discharged into the environment. This efficient method also increases the life of the air-oil separation filter.



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.



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. Split coolers are a standard on our EG Series compressors, and increase the unit's reliability and facilitate maintenance.



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 corrosionfree, 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.



Superior Warranty of up to 10 Years* without limitation of working hours

ELGi's EG Series compressors come with superior warranty. Beginning with its design, manufacturing, and quality testing, the compressor is built to ensure long life, reliability, and durability.

*On the airend. Terms & Conditions 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 III Controller
 Remote Management of Compressor
 Operations
- Energy-Efficient
 Eco-Friendly Compressors
- Robust Cooling System
 Reduced Air Outlet Temperature

- Silent And Aesthetic
 Enclosure Designed to Industrial Standards
- Excellent Oil Separation OSBIC
 1 PPM Oil Carry Over
- Option of "In-Built VFD"
 Compact and Saves Floor Area
- Safety Compliant Package
 CE Certified
- Highly Efficient Motor Energy Cost Savings

Neuron III Advanced Controller



Reports

Provides cumulative report (run hours, load hours, stop hours, fault hours and remaining hours of operation for filters and other maintenance needs such as oil replacement)

- Detailed Report Previous 15 days (Load hours, unload hours, stop hours, fault hours and number of times machine stopped due to standby)
- Fault Report Previous 99 faults in chronological order with real time stamping and type of fault.
- VFD Parameters Displays current, frequency, voltage and percentage of operating load distribution hours.
- Mimic Display Readout and closed-loop control

Remote Monitoring

DCS (MODBUS RTU/RS 485) - The controller is enabled to synchronise with the distributed control system - control of compressor from the control panel of the customer.

SCADA - Compressor control through PC with remote monitoring by supervisory control and data acquisition process.

Save Energy by Varying Motor Speed

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 and also wasted power from the energy bill. 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

by 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

Model	Nomina	al Power	Working Pressure		Free Air Delivery		Weight	Noise	Dimensions L x B x H
50Hz	kW	НР	bar g	psi g	m³/min	cfm	Kg	dB(A)	mm
EG 11 11			7.0	102	2.01	71			
			8.0	116	1.81	64			
	11	15	9.5	138	1.64	58	532	69	1356 x 721 x 1370
			12.5	181	1.39	49			
			7.0	102	2.78	98			
EC 15	15	20	8.0	116	2.63	93		60	1756 701 1770
EG 15	15	20	9.5	138	2.27	80	552	69	1356 x 721 x 1370
			12.5	181	1.98	70			
			7.0	102	3.40	120			
FC 10	10	25	8.0	116	3.23	114	650	CO	1500 v 001 v 1770
EG 18	18	25	9.5	138	2.83	100	650	69	1500 x 821 x 1370
			12.5	181	2.32	82			
			7.0	102	4.02	142			
FC 22	22	7.0	8.0	116	3.91	138	650	60	1500 021 1770
EG 22	22	30	9.5	138	3.34	118	650	69	1500 x 821 x 1370
			12.5	181	2.75	97			
			4.5	65	5.15	182	1044	69	
		5 35	7.0	102	5.01	177			
EG 26	26		8.0	116	4.47	158			1705 x 1111 x1570
			9.5	138	4.16	147			
			12.5	181	3.43	121			
			4.5	65	5.95	210			
EG 30 30		7.0	102	5.83	206				
	30	40	8.0	116	5.18	183	1044	69	1705 x 1111 x1570
			9.5	138	4.87	172			
			12.5	181	4.05	143			
			4.5	65	7.28	257	1110	69	1705 x 1111 x1570
			7.0	102	7.22	255			
EG 37	37	50	8.0	116	6.65	235			
			9.5	138	5.97	211			
			12.5	181	5.24	185			
			4.5	65	8.86	313			69 1705 x 1111 x1570
			7.0	102	8.75	309			
EG 45	45	15 60	8.0	116	7.99	282	1116	69	
			9.5	138	7.39	261			
			12.5	181	6.23	220			
			4.5	65	10.90	385			
			7.0	102	10.76	380			
EG 55	55	75	8.0	116	10.11	357	1523	69	1959 x 1266 x 1754
			9.5	138	9.29	328			
			12.5	181	7.59	268			
			7.0	102	14.78	522			
EG 75	75	100	8.0	116	13.88	490	2020	69	2063 x 1269 x 196
_5.5	, 5	100	9.5	138	12.74	450		03	2003 X 1203 X 130
			12.5	181	11.04	390			
			4.5	65	19.9	706			
EG 90	90	125	7.0	102	16.57	585	2935	75	2830 x 1640 x 213
	50	125	8.0	116	15.23	538		13	2030 X 1040 X 213/
			10.0	145	13.31	470			
			4.5	65	24.3	858			
EG 110	110	150	7.0	102	19.85	706	3110	75	2830 x 1640 x 213
	.10	.50	8.0	116	18.38	649	- 5710		2000 % 10 10 % 210
			10.0	145	16.42	580			



Model	Nominal Power		Working Pressure		Free Air Delivery		Weight	Noise	Dimensions L x B x H
50Hz	kW	HP	bar g	psi g	m³/min	cfm	Kg	dB(A)	mm
			4.5	65	29.1	1030			
FC 173	170	175	7.0	102	24.21	855	7755	7.5	2070 16 40 2177
EG 132	132	175	8.0	116	22.4	791	3755	75	2830 x 1640 x 2137
			10.0	145	20.11	710			
			7.0	102	29.05	1026		75	2830 x 1640 x 2137
EG 160	160	200	8.0	116	27.01	954	3780		
			10.0	145	24.07	850			
		250	4.5	65	38.51	1360	5295	78	3195 x 2108 x 2240
			7.0	102	37.94	1340			
EG 200	200		8.0	116	34.49	1218			
			9.5	138	31.15	1100			
			12.5	181	25.77	910			
EG 250 250		300	4.5	65	43.60	1540	5655	78	3195 x 2108 x 2240
	250		7.0	102	43.18	1525			
			8.0	116	41.77	1475			
			9.5	138	37.38	1320			
			12.5	181	31.15	1100			

Technical Specifications - 50Hz VFD

Model	Nominal Power		Working Pressure		Free Air Delivery		Weight	Noise	Dimensions L x B x H
50Hz	kW	HP	bar g	psi g	m³/min	cfm	Kg	dB(A)	mm
			7.0	102	0.71 ~ 2.01	25 ~ 71			
FC 11	11	15	8.0	116	0.71 ~ 1.81	25 ~ 64	500	60	17FC v 721 v 1770
EG 11	11	15	9.5	138	0.71 ~ 1.64	25 ~ 58	582	69	1356 x 721 x 1370
			12.5	181	0.57 ~ 1.36	20 ~ 48			
			7.0	102	1.27 ~ 2.78	45 ~ 98			1356 x 721x 1370
EG 15	15	20	8.0	116	1.13 ~ 2.63	40~ 93	672	69	
EG 15	15	20	9.5	138	0.99 ~ 2.27	35 ~ 80	632		
			12.5	181	0.76 ~ 1.98	27 ~ 70			
			7.0	102	1.56 ~ 3.40	55 ~ 120	680	69	1500 x 821 x 1370
EG 18	18	25	8.0	116	1.50 ~ 3.23	53 ~ 114			
EG 18	18		9.5	138	1.13 ~ 2.83	40 ~ 100			
			12.5	181	1.02 ~ 2.32	36 ~ 82			
			7.0	102	1.78 ~ 4.02	63 ~ 142		69	1500 x 821 x 1370
FC 22	22	70	8.0	116	1.78 ~ 3.91	63 ~ 138	COL		
EG 22	22	30	9.5	138	1.56 ~ 3.34	55 ~ 118	685		
			12.5	181	1.19 ~ 2.75	42 ~ 97			
			4.5	65	1.98 ~ 5.15	70 ~ 182			
			7.0	102	1.98 ~ 5.01	70 ~ 177			
EG 26	26	35	8.0	116	1.64 ~ 4.47	58 ~ 158	1089	69	1705 x 1111 x 1570
			9.5	138	1.47 ~ 4.16	52 ~ 147			
			12.5	181	1.56 ~ 3.43	55 ~ 121			

Note:

- Free Air Delivery (FAD) is tested as per ISO 1217 : 2009 Annexure 'C/E' Edition: 4.
- Sound level measured as per ISO 2151, Second Edition.
- Due to continuous improvements, the specifications are subject to change without prior notice.
- Product images displayed in this brochure are only representative and may not exactly match the actual product .
- FAD values are provided at corresponding working pressure values.

Technical Specifications - 50Hz VFD

Model	Nomina	al Power	Working	Pressure	Free Air Delivery		Weight	Noise	Dimensions L x B x H
50Hz	kW	HP	bar g	psi g	m³/min	cfm	Kg	dB(A)	mm
EG 30 30			4.5	65	1.22 ~ 5.95	43 ~ 210		69	
			7.0	102	1.16 ~ 5.83	41 ~ 206	1044		
	30	40	8.0	116	1.33 ~ 5.18	47 ~ 183			1705 x 1111 x1570
			9.5	138	1.50 ~ 4.87	53 ~ 172			
			12.5	181	1.53 ~ 4.05	54 ~ 143			
			4.5	65	1.50 ~ 7.28	53 ~ 257			
			7.0	102	1.56 ~ 7.22	55 ~ 255			
EG 37	37	50	8.0	116	1.70 ~ 6.65	60 ~ 235	1089	69	1705 x 1111 x1570
			9.5	138	1.87 ~ 5.97	66 ~ 211			
			12.5	181	2.07 ~ 5.24	73 ~ 185			
			4.5	65	1.81 ~ 8.86	64 ~ 313			
			7.0	102	1.87 ~ 8.75	66 ~ 309			
EG 45	45	60	8.0	116	2.07 ~ 7.99	73 ~ 282	1161	69	1705 x 1111 x1570
			9.5	138	2.21 ~ 7.39	78 ~ 261			
			12.5	181	2.44 ~ 6.23	86 ~ 220			
			4.5	65	2.55 ~ 10.90	90 ~ 385	1588	69	1959 x 1266 x 1754
			7.0	102	2.58 ~ 10.76	91 ~ 380			
EG 55	55	55 75	8.0	116	2.55 ~ 10.11	90 ~ 357			
			9.5	138	3.65 ~ 9.29	129 ~ 328			
			12.5	181	3.37 ~ 7.59	119 ~ 268			
		100	7.0	102	6.12 ~ 14.78	216 ~ 522			
EG 75	75		8.0	116	6.06 ~ 13.88	214 ~ 490	2090	69	2063 x 1269 x 1969
EG 73	73		9.5	138	6.12 ~ 12.74	216~ 450			2003 X 1203 X 1303
			12.5	181	5.24 ~ 11.04	185 ~ 390			
		125	7.0	102	6.65 ~ 16.57	235 ~ 585		75	2830 x 1640 x 2137
EG 90	90		8.0	116	6.60 ~ 15.23	233 ~ 538	2935		
			10.0	145	6.31 ~ 13.31	223 ~ 470			
			7.0	102	7.87 ~ 19.85	278 ~ 701			
EG 110	110	150	8.0	116	7.76 ~ 18.38	274 ~ 649	3220	75	2830 x 1640 x 2137
			10.0	145	7.76 ~ 16.42	274 ~ 580			
			7.0	102	10.00 ~ 24.21	353 ~ 855			2830 x 1640 x 2137
EG 132	132	175	8.0	116	9.85 ~ 22.4	348 ~ 791	3885	75	
			10.0	145	9.66 ~ 20.11	341 ~ 710			
			7.0	102	11.64 ~ 29.05	411 ~ 1026			
EG 160	160	200	8.0	116	11.75 ~ 27.01	415 ~ 954	3975	75	2830 x 1640 x 2137
			10.0	145	11.55 ~ 24.07	408 ~ 850			
			4.5	65	15.4 ~ 38.51	544 ~ 1360			
			7.0	102	14.87 ~ 37.94	525 ~ 1340			
EG 200	200	250	8.0	116	14.72 ~ 34.49	520 ~ 1218	5420	78	3195 x 2108 x 2240
			9.5	138	14.5 ~ 31.15	512 ~ 1100			
			12.5	181	12.57 ~ 25.77	444 ~ 910			
			4.5	65	17.4 ~ 43.6	614 ~ 1540			
			7.0	102	18.2 ~ 43.18	642 ~ 1525			3195 x 2108 x 2240
EG 250	250	300	8.0	116	18.0 ~ 41.77	635 ~ 1475	5780	78	
			9.5	138	17.7 ~ 37.38	625 ~ 1320			
			12.5	181	15.35 ~ 31.15	542 ~ 1100			



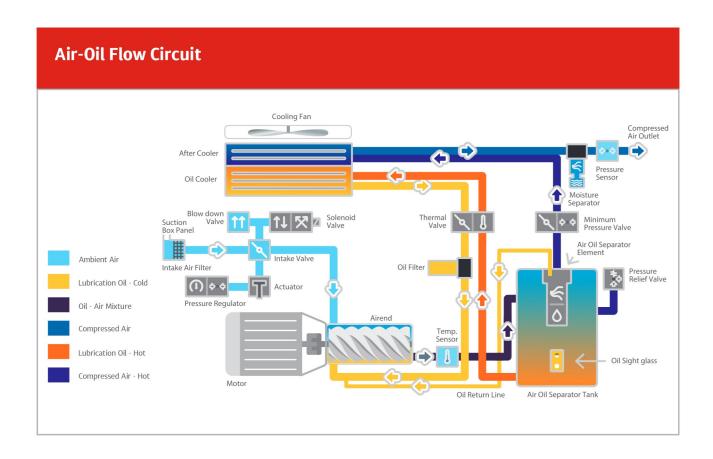
Technical Specifications - 50Hz Premium

Model	Nominal Power		Working Pressure		Free Air Delivery		Weight	Noise	Dimensions L x B x H
50Hz	kW	HP	bar g	psi g	m³/min	cfm	Kg	dB(A)	mm
			4.5	65	17.3	610			
			7	102	17.05	624			
EG 90 - P	90	125	8	116	15.66	553	2980	76	2916 x 1885 x 1925
			10	145	13.45	475			
			12.5	181	11.86	419			
			4.5	65	22.1	780		76	2916 x 1885 x 1925
			7	102	21.55	761			
EG 110 - P	110	150	8	116	20.5	724	3200		
			10	145	17.5	618			
			12.5	181	14.87	525			
			4.5	65	26.8	945		76	2916 x 1885 x 1925
		32 175	7	102	26.5	936			
EG 132 - P	132		8	116	24.35	860	3970		
			10	145	21.52	760			
			12.5	181	17.5	619			
EG 160 - P 160		4.5	65	31.14	1100				
		160 200	7	102	30.81	1088	4130	76	2916 x 1885 x 1925
	160		8	116	28.77	1016			
			10	145	25.71	908			
		12.5	181	21.4	757				

Technical Specifications - 50Hz VFD Premium

							Weight		Dimensions
Model	Nominal Power		Working Pressure		Free Air	Free Air Delivery		Noise	L x B x H
50Hz	kW	HP	bar g	psi g	m³/min	cfm	Kg	dB(A)	mm
			4.5	65	6.8~17.3	239~628			
			7	102	6.68~17.5	236~602			
EG 90 - P	90	125	8	116	6.65~15.66	235~553	3230	76	2916 x 1885 x 1925
			10	145	6.46~13.45	228~475			
			12.5	181	5.64~11.86	199~419			
			4.5	65	8.6~22.1	304~780	3400	76	
		150	7	102	8.47~21.55	299~761			
EG 110 - P	110		8	116	8.61~20.5	304~724			2916 x 1885 x 1925
			10	145	8.27~17.5	292~618			
			12.5	181	7.14~14.87	252~525			
		175	4.5	65	10.7~26.8	378~945	4290	76	2916 x 1885 x 1925
			7	102	10.62~26.5	375~936			
EG 132 - P	132		8	116	10.45~24.35	369~860			
			10	145	10.45~21.52	369~760			
			12.5	181	8.4~17.5	297~619			
		200	4.5	65	12.7~31.14	463~1100	4340	76	2916 x 1885 x 1925
			7	102	12.71~30.81	449~1088			
EG 160 - P	160		8	116	12.57~28.77	444~1016			
			10	145	12.49~25.71	441~908			
			12.5	181	10.3~21.4	363~757			

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- Sound level measured as per ISO 2151, Second Edition.
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- FAD values are provided at corresponding working pressure values.



After Sales and Service

A wide range of after-sales products and services by ELGi is designed to add maximum value to customers. ELGi's quick service processes ensure optimum availability and reliability of compressors with the lowest possible operating costs.



Genuine Spares and Service

Genuine spares and services from ELGi help to avoid unexpected compressor failures and the risk of subsequent damage to other vital compressor components. ELGi spares are designed, manufactured, and checked for quality to meet the standards of a new ELGi compressor. ELGi consistently focuses on improving spares to provide customers with the best results.



ELGi Air Audit

ELGi air audit program helps improve compressors' performance by identifying the areas of wastage in the system. ELGi air audit services are offered for generation, distribution, and demand-side systems.

ELGi Airmate Accessories

















Always Better.

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+ 120+

Installations Worldwide

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.



