

EG Series Screw Air Compressors

Life source of industries







www.elgi.com

200 - 250 kW / 250 - 300 HP (60Hz)



ELGi, established in 1960, designs and manufactures a wide range of air compressors. The company has gained its reputation for design and manufacture of screw compressors through strategic partnerships and continuous research and development. Over the years, it has emerged as a multi-product, multi-market enterprise providing total compressed air solutions in all segments. ELGi's design capabilities translated into a wide range of products ranging from oil-lubricated and oil-free rotary screw compressors, reciprocating compressors and centrifugal compressors. ELGi has its own manufacturing operations in India, Italy and USA with subsidiaries in Australia, Brazil, UAE and Indonesia. The company is fast expanding its global footprint attracting distributors and customers with its latest generation products.

Screw Compressor elements are manufactured in-house using state-ofthe-art machining centres for rotor grinding and machining castings of various sizes. ELGi's own eta-V profile rotors ensure energy-efficient compressed air supply for all demanding applications. ELGi is one of the few companies capable of manufacturing wide range of airends and compressor packages in the world. ELGi's patent portfolio is a testament to the company's continuous research and innovation capability

AIR UP. OPTIME[®] comes standard on every EG Series Compressor

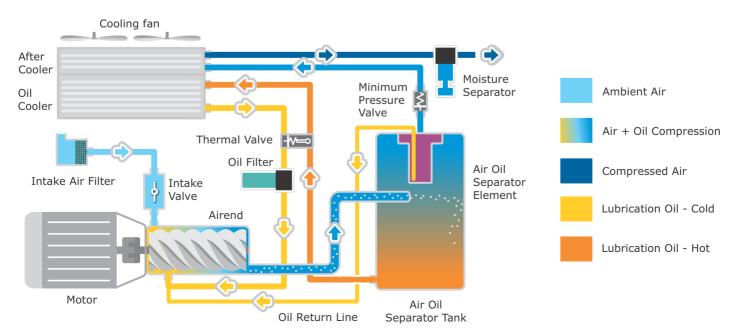
7EG SERIES

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The EG Series compressors represent a giant leap in design and performance with each component designed for reliability and ease of maintenance. The compressor is manufactured in compliance with applicable international standards (UL, ASME, CE and others) and designed as per the international quality standards. These new generation compressors significantly reduce operating costs and provide cost savings with fast return on investment .

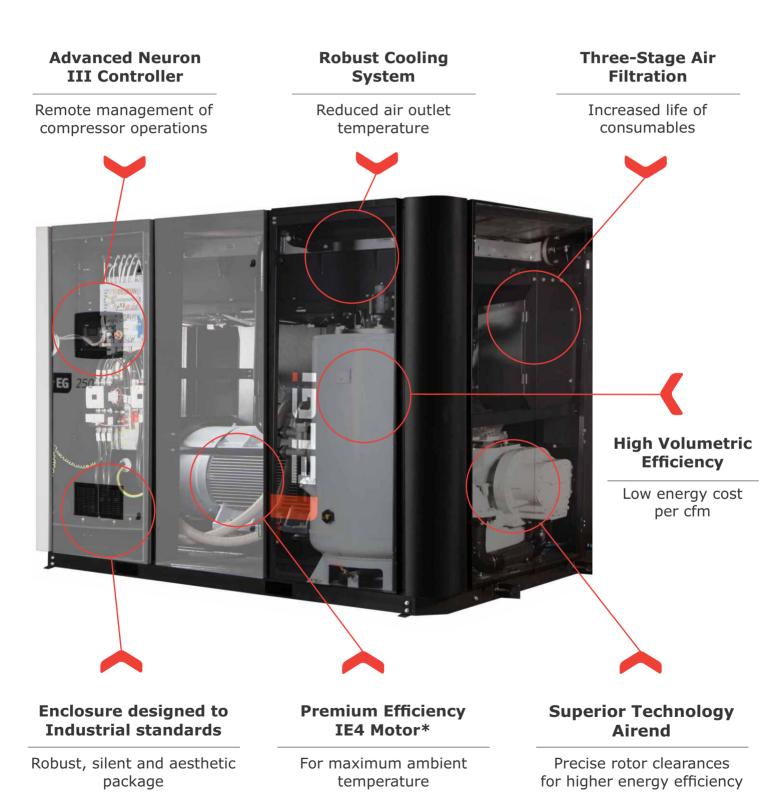


EG Series - Schematic Diagram



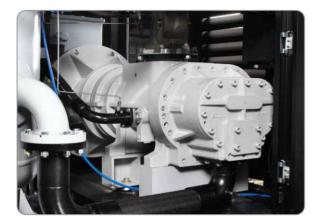


EG Series



*Available on request





Premium efficiency airend

ELGi's airends are equipped with in-house developed eta-V profile rotors, with 4/5 lobe combination, the rotors are designed to run at optimum speeds. This unique design reduces pressure losses and increased efficiencies.

- Precise rotor clearances for best-in-class energy efficiency
- Low operating speeds for longer life, low sound level with lesser maintenance
- Complies with applicable safety standards

Higher efficiency motor

- Premium efficiency IE3 class motors are used as standard
- Heavy duty TEFC induction motor with IP55 protection for assured operation in dusty environments
- Motor selected for high ambient of 50°C with power variants 380V/440V in 60Hz
- Wide operating voltage- +/- 10%





Efficient air inlet system

- Three stages of filtration of inlet air
- Heavy duty dry type air filter optimally designed for higher efficiency (99.9%)
- Reduced suction noise through baffle arrangment

In-take valve system

The new generation in-take valve with integrated blow down unit, solenoid controls and actuators is designed for low losses. In-take valve optimally controls the compressor capacity during startup reducing the no-load power. This optimal capacity control results in direct savings on power consumption



ELGi

The Technology Edge



Oil-less air (2ppm*)

ELGi has applied unique OSBIC process (Oil Separation By Impact and Centrifugal action) which enables efficient separation of air and oil, with minimum pressure drop. The method enables separation of oil in three stages, delivering consistent oil-free air while increasing the life of separator element.

* as per ISO Standard

Efficient Cooling System

- Cooling system with large surface area for efficient cooling
- ERP compliant Fan motor with significantly lower power consumption
- Easy and quick access points, thus enables easy service and maintenance
- After cooler and Oil cooler isolated for enhancing cooling efficiency





Moisture - free air

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

Air Alert - IoT 4.0

AiR~Alert is an IoT enabling device which when fit in compressors will make them 'Industry 4.0' ready. It acquires data from compressor and sends it to dedicated servers which predicts failure modes ad generates alerts from data acquired and sends reports to the customer





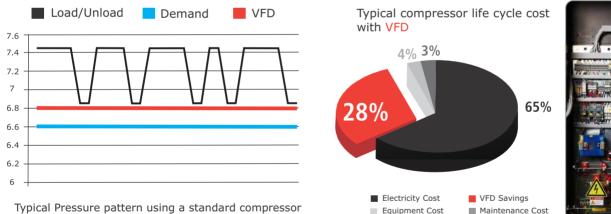


Neuron III Controller

- Detects and prevents starting compressor from Phase loss and Phase reversal
- Remote Load / Unload and Start / Stop
- Run hour report for different speeds
 Provision for entering Latitude and Longitude to detect
- Up to 99 fault reports with fault description and time
- stamp which captures exact time and operational parameters at the time of each failure

Integrated VFD (Variable Frequency Drive)

- ELGi's VFD are specially configured to run efficiently with the ELGi's advanced eta-v profile airends
- VFD varies the compressor speed which in turn varies the air flow as per demand. This results in stabilization of
 pressure and saves energy
- VFD integrated machines operate at a very minimal pressure band of 0.2 bar when compared to a fixed speed machine which operates at a much higher pressure of 0.5 bar. This saves considerable energy
- All the above advantages combined, a VFD machine can typically offer a savings of between 20% 30% depending on the demand variation available in the system

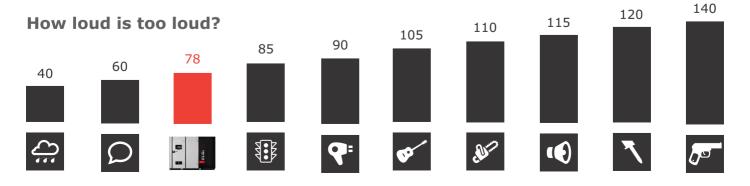




Typical Pressure pattern using a standard compressor and a compressor with VFD

Low sound level, low vibration and compact

All these improvements are offered without compromising on the USP of low noise and vibration



Technical Specification - 60 Hz

Model	Motor Power		Pressure		Max.Pressure		Free Air Delivery		Weight	Noise	Dimension(LxBxH)
60 Hz	kW	HP	bar g	psi g	bar g	psi g	m∛min	cfm	(lbs)	dB(A)	Inches
EG 200	185	250	6.9	100	7.4	107	36.10	1275	12586	78	126 x 83 x 88
EG 200	185	250	8.6	125	9.1	132	33.27	1175	12586	78	126 x 83 x 88
EG 200	185	250	10.3	150	10.8	157	28.32	1000	12586	78	126 x 83 x 88
EG 250	220	300	6.9	100	7.4	107	42.90	1515	12632	78	126 x 83 x 88
EG 250	220	300	8.6	125	9.1	132	38.23	1350	12632	78	126 x 83 x 88
EG 250	220	300	10.3	150	10.8	157	33.13	1170	12632	78	126 x 83 x 88

Integrated VFD (Variable Frequency Drive) models

EG 200	185	250	6.9	100	7.4	107	14.4~36.10	509~1275	12862	78	126 x 83 x 88
EG 200	185	250	8.6	125	9.1	132	13.3~33.27	469~1175	12862	78	126 x 83 x 88
EG 200	185	250	10.3	150	10.8	157	11.3~28.32	400~1000	12862	78	126 x 83 x 88
EG 250	220	300	6.9	100	7.4	107	17.1~42.9	606~1515	12908	78	126 x 83 x 88
EG 250	220	300	8.6	125	9.1	132	15.2~38.23	540~1350	12908	78	126 x 83 x 88
EG 250	220	300	10.3	150	10.8	157	13.2~33.13	467~1170	12908	78	126 x 83 x 88

Note:

• Frea Air delivery (FAD) is tested as pre ISO 1217:2009 Annexure C edition: 4 • FAD indicated is for the full package measured at the outlet after moisture separator • All models are available in Air cooled version and Water cooled version are available on demand

Unload pressure is 1 bar g above the working pressure for fixed speed machines and Unload pressure is 0.5 bar g above the working pressure for Variable speed machines
 Sound level measured as per ISO 2151, second edition at 1m distance in free field conditions, +/-3 db(A) • Performance measurements are at specified working pressures

• Due to continuos improvements, the specifications are subject to change without priror notice.

ELGi Airmate Accessories



Downstream filter

- Capacity: 35-3200 cfm
- Working pressure : 100-190psig (7-13 bar g)
- Filtration Range: 1-0.003 microns



Drain valves

Timer controller & zero loss

- Capacity: 500 2000 cfm
- Working pressure: 100-190 psig (7-13 bar g)



Refrigeration air dryer

- Flow range: 10~2000 cfm
- Working pressure: 100-870 psi (7-60 bar g)
- Filtration range: +3°C. PDP



Air receiver

- Capacity: 250 10000 ltrs.
- Working pressure: 100-190 psi g
- (7-13 bar g) code of construction: ASME sec.
- VIII Div.I or IS 2825



Distributed by

Oil water separator

- Capacity: 70 1060 cfm
 - Max. Oil adsorption capacity: 20 Lts
- Media: Condensate
- Separation Efficiency: <10ppm

Heat recovery system

- Models: 11 250 kW
- Heat Capacity: 10.5 225 kW



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