



EN Series Screw Air Compressors

Essentials Encapsulated

ELGi

Always Better.

UPTIMETM
ASSURANCE



CIN: L29120TZ1960PLC000351

www.elgi.com

2.2 - 45 kW / 03 - 60 HP



A Tradition of Reliability

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.



Robust Infrastructure

ELGi has modern manufacturing facilities equipped with advanced high precision grinding machines, turning centres and CNC horizontal and vertical machining centres. Screw airends are manufactured with the latest rotor grinding technology, coupled with measurement technology to maintain precise manufacturing tolerances. ELGi's manufacturing plants are both ISO and EOHS certified. The products are manufactured under controlled environment to ensure that its quality continues to meet the highest standards.



Innovative Technology

Screw Compressor elements are manufactured in-house using state-of-the-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



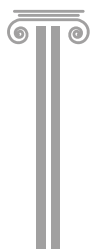
AIR UP.

UPTIME™ comes standard on every EN Series Compressor



UPTIME Design

This speaks to the engineering and design of our products. Our R&D is dedicated to designing machines that run cooler, cleaner and longer... that are easy to service... with longer service intervals.



UPTIME Components

For so many of our customers, seeing is believing. They know a quality-built machine when they see it. That's why every part on a ELGi compressor is a quality part. From our proprietary air ends, to our use of leak-free hoses and piping.



UPTIME Assurance

Here is where we back our pledge, Our industry leading warranties, parts availability and call centers staffed by experts assure peace-of-mind to our customers.

EN Series

compact, silent and efficient

Essentials Encapsulated

ELGi's EN series screw compressors are designed to encapsulate all functional components and compressor within a common housing. With its small footprint, high reliability and low maintenance requirements, the compressors are ideal for all industrial applications where size, efficiency and cost matter.

UPTIMETM
ASSURANCE



High reliability



Energy-efficient



Low cost of ownership



Ease of maintenance



Compact and silent

Encapsulated airend*

The EN series compressors are fitted with ELGi's unique airend which encapsulates all major functional systems such as intake system, compression system and separation system within a common frame

- Energy efficient
- Minimal pressure drop across the system
- Compact
- Silent

* From EN 2 to EN 30



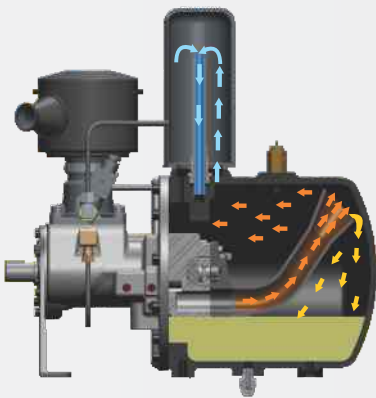
Efficient air-oil separation with (<3ppm)

The air-oil separation by impact and deceleration action involves three stages:

Stage 1: Impact of air-oil mixture on the tank circumferential area

Stage 2: Deceleration action of air-oil mixture to remove the oil particles

Stage 3: Air with minor traces of oil enters the spin on separator for purification



Ease of maintenance

- Single service door access to routine maintenance points
- Spin-on oil filter and separator elements for fast and easy routine service



Reliable Neuron Controller

The Neuron XT controller has been custom designed and engineered as an efficient control solution for encapsulated series. The system allows you to monitor and control overall performance with easy-to-use service indications, malfunction alarms and safety shutdowns. The controller is built-in with 'service protect' modules. It also includes a service and operational log feature to provide real-time feedback and increase system productivity

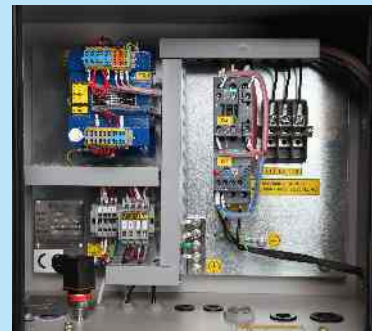


- Designed for wide range of temperatures upto 50°C
- Integration to energy management system
- MODBUS communications for DCS control through RS485 port
- In-built phase loss & phase reversal protection
- Remote start / stop facility



High efficiency motor

- Heavy duty TEFC / S1 / IP55 motor suited for ambient temperature up to 45°C
- Built-in safety systems



Low cost of ownership



Design

- Space saving design
- Powered by ELGi's energy-efficient eta-V rotor profiles
- Zero leakage due to integration of components/connections
- Fewer parts and connections require only minimum maintenance

Operational

Longer life of consumables

- Efficient air filtration system where air enters through pre-filtered enclosure. Cleaner suction air keeps the internal components of the compressor clean and maintains optimum cooling efficiency
- Low oil-fill

Robust cooling system in high ambient temperature

- Air cooling in separate hot and cold zones
- High efficiency coolers and cooling fans ensure low operating temperature
- Improved cooling ensures longer life of compressor



After cooler is
standard in all
models

■ Cold air
■ Hot air

Technical Specification

Model	Rated Power		Working Pressure		Max. Pressure		Free Air Delivery		Weight*	Noise	Tank**
50Hz	kW	HP	bar g	psi g	bar g	psi g	m³/min	cfm	Kgs	dB(A)	Litres

Length:615mm Breadth:715mm Height: 845mm

EN 2	2.2	3.0	7.0	102	7.2	104	0.33	11.6	150	61	220/270
EN 2	2.2	3.0	9.5	138	9.7	141	0.25	9.0	150	61	220/270
EN 3	3.0	4.0	7.0	102	7.2	104	0.45	15.8	150	61	220/270
EN 3	3.0	4.0	9.5	138	9.7	141	0.37	13.1	150	61	220/270
EN 3	3.0	4.0	12.5	181	12.7	184	0.26	9.3	150	61	220/270
EN 4	4.0	5.0	7.0	102	7.2	104	0.51	18.0	150	61	220/270
EN 4	4.0	5.0	9.5	138	9.7	141	0.43	15.4	150	61	220/270
EN 4	4.0	5.0	12.5	181	12.7	184	0.39	13.8	150	61	220/270
EN 5	5.5	7.5	7.0	102	7.2	104	0.75	26.4	150	64	220/270
EN 5	5.5	7.5	9.5	138	9.7	141	0.65	22.8	150	64	220/270
EN 5	5.5	7.5	12.5	181	12.7	184	0.53	18.8	150	64	220/270

Length:875mm Breadth:800mm Height: 1008mm

EN 5x	5.5	7.5	7.0	102	7.2	104	0.85	30.0	250	66	270/500
EN 5x	5.5	7.5	9.5	138	9.7	141	0.68	24.0	250	66	270/500
EN 5x	5.5	7.5	12.5	181	12.7	184	0.54	19.2	250	66	270/500
EN 7	7.5	10.0	7.0	102	7.2	104	1.15	40.6	270	66	270/500
EN 7	7.5	10.0	9.5	138	9.7	141	0.95	33.5	270	66	270/500
EN 7	7.5	10.0	12.5	181	12.7	184	0.78	27.4	270	66	270/500
EN 11	11	15.0	7.0	102	7.2	104	1.78	63	280	67	270/500
EN 11	11	15.0	9.5	138	9.7	141	1.48	52.4	280	67	270/500
EN 11	11	15.0	12.5	181	12.7	184	1.24	43.9	280	67	270/500
EN 15	15	20.0	7.0	102	7.2	104	2.12	74.7	320	68	270/500
EN 15	15	20.0	9.5	138	9.7	141	1.78	63.0	320	68	270/500
EN 15	15	20.0	12.5	181	12.7	184	1.59	56.0	320	68	270/500

Length: 930mm Breadth: 1150mm Height: 1450mm

EN 15x	15	20.0	7.0	102	7.2	104	2.48	87.5	520	69	-
EN 15x	15	20.0	9.5	138	9.7	141	2.10	75	520	69	-
EN 15x	15	20.0	12.5	181	12.7	184	1.80	64	520	69	-
EN 18	18.5	25.0	7.0	102	7.2	104	3.11	110	558	69	-
EN 18	18.5	25.0	9.5	138	9.7	141	2.60	93	558	69	-
EN 18	18.5	25.0	12.5	181	12.7	184	2.20	76	558	69	-
EN 22	22	30.0	7.0	102	7.2	104	3.54	125	610	69	-
EN 22	22	30.0	9.5	138	9.7	141	3.10	108	610	69	-
EN 22	22	30.0	12.5	181	12.7	184	2.60	92	610	69	-
EN 30	30	40.0	7.0	102	7.2	104	4.30	152	678	69	-
EN 30	30	40.0	9.5	138	9.7	141	3.60	127	678	69	-
EN 30	30	40.0	12.5	181	12.7	184	3.00	106	678	69	-

Length: 1250mm Breadth: 1025mm Height: 1650mm

EN 30x	30	40.0	7.0	102	7.5	109	5.41	191	850	74	-
EN 30x	30	40.0	9.5	138	10.0	145	4.53	160	850	74	-
EN 30x	30	40.0	12.5	181	13.0	189	3.60	127	850	74	-
EN 37	37	50.0	7.0	102	7.5	109	6.85	242	890	74	-
EN 37	37	50.0	9.5	138	10.0	145	5.47	193	890	74	-
EN 37	37	50.0	12.5	181	13.0	189	4.70	166	890	74	-

Note :

Free Air Delivery (FAD) is tested as per ISO 1217 : 2009 Annexure C Edition: 4

Sound level measured as per ISO 2151, Second Edition at 1m distance in field conditions,+/-3dB(A)

DOL Starter for EN 2 to EN 5 and Star Delta Starter for EN 7 to EN 45

** Compressors mounted on horizontal receiver tank and dryer available as option (for models upto EN 15)

* Weight and dimension are for the base unit

Due to continuous engineering 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

Technical Specification - Refrigerated Air Dryers*

Model	Flow		Max Pressure bar g	Electrical			Dimensions in mm			Weight Kg	Cooling media
	cfm	m ³ /min		Volts	Hz	phase	length	breadth	height		
EGRD 020	20	0.57	16	230	50	Single	395	475	500	25	Air
EGRD 040	40	1.13	16	230	50	Single	395	475	500	28	Air
EGRD 080	80	2.27	16	230	50	Single	380	420	775	33	Air

Note:

* for models upto EN15

Performance data is measured at 7 bar, inlet temperature 45°C, ambient temperature 35°C, pressure dew point +3°C

Due to continuous engineering improvements, technical specifications are subject to change without prior notice

ELGi Airmate Accessories



Moisture separator

- Capacity: 100-365 cfm
- Working pressure: 16 bar g



Downstream filter

- Capacity: 19-1200 cfm
- Working pressure: 7-60 bar
- Filtration range: 1-0.003 microns



Refrigeration air dryer

- Capacity: 10-2000 cfm
- Working pressure: 7-60 bar
- Filtration range: +3°C. PDP



Drain valves

(Timer controlled & zero loss)

- Capacity : 50-2000 cfm
- Working pressure: 16 bar
- Media : Condensate



Dessicant air dryer

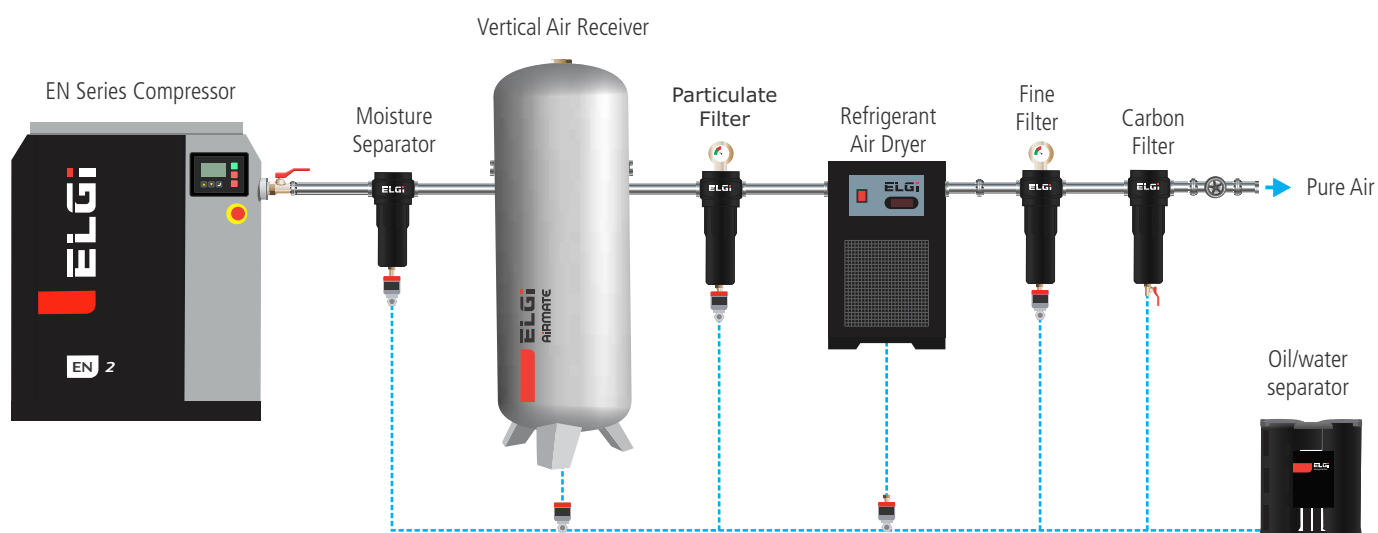
- Capacity : 10-45 cfm
- Working pressure : 16 bar g



Air receiver

- Capacity : 250-10000 ltrs.
- Working pressure : 7-12.5 bar
- Code of construction: ASME sec. VIII Div.I or IS 2825

Typical compressed air supply system



Genuine Spares

For enhancing performance and productivity



Compressed air solutions for all sustainable air needs



Oil free series screw
45 - 450 kW / 190 - 2601 cfm



EG series rotary screw
11 - 250 kW / 45 - 1540 cfm



EN series rotary screw
2.2 - 45 kW / 9.0 - 280 cfm



Electric portable (Trolley)
22 - 90 kW / 130 - 500 cfm



Diesel portable (Trolley)
185 - 1200 cfm / 100 - 350 psig



Diesel portable (Skid)
500 - 1500 cfm / 175 - 400 psig



Oil free recip
5.0 - 30 kW / 14.5 - 90 cfm



Oil lubricated recip
1.0 - 40 hp / 2.0 - 128 cfm

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