



EN Series Screw Air Compressors

Essentials Encapsulated

ELGi
Always Better.

UPTIME[™]
ASSURANCE



CIN: L29120TZ1960PLC000351

www.elgi.com

2.2 - 75 kW / 03 - 100 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.



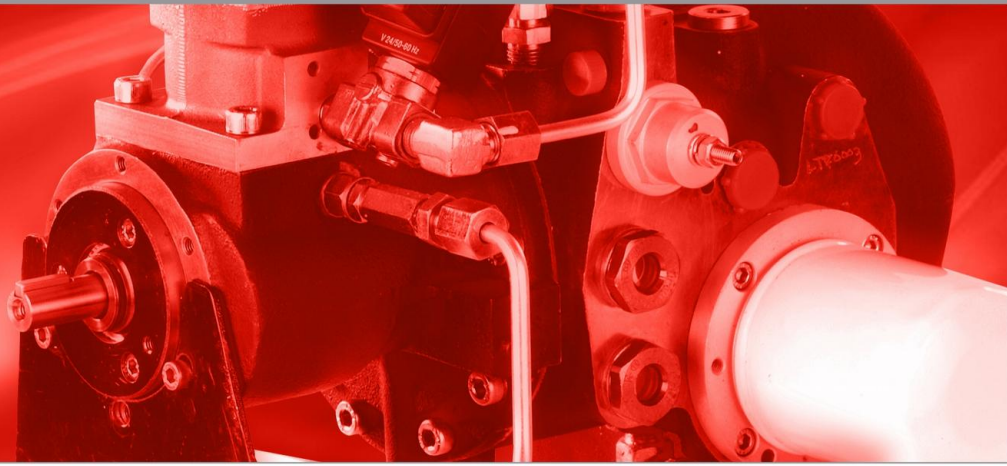
UPTIME Assurance

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.

UPTIME™
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

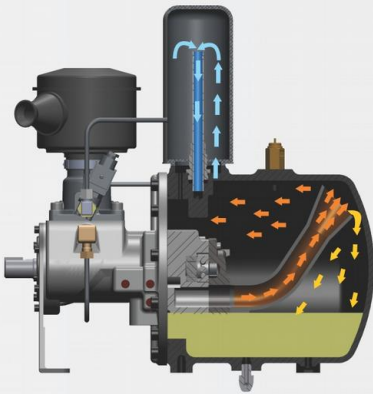
Efficient air-oil separation with (<3ppm)

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

*for selected markets only. Others are equipped with Neuron P1 controller

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 (50Hz)

Model	Motor Power		Working Pressure		Max. Pressure		Free Air Delivery		Weight*	Noise	Tank**
	50Hz	kW	HP	bar g	psi g	bar g	psi g	m ³ /min			
Length:615mm Breadth:715mm Height: 845mm											
EN 2	2.2	3.0	7.0	102	7.2	104	0.32	11.2	150	61	220/270
EN 2	2.2	3.0	9.5	138	9.7	141	0.25	8.7	150	61	220/270
EN 3	3.0	4.0	7.0	102	7.2	104	0.43	15.3	150	61	220/270
EN 3	3.0	4.0	9.5	138	9.7	141	0.36	12.7	150	61	220/270
EN 3	3.0	4.0	12.5	181	12.7	184	0.25	9.0	150	61	220/270
EN 4	4.0	5.0	7.0	102	7.2	104	0.51	18.1	150	61	220/270
EN 4	4.0	5.0	9.5	138	9.7	141	0.47	16.5	150	61	220/270
EN 4	4.0	5.0	12.5	181	12.7	184	0.38	13.5	150	61	220/270
EN 5	5.5	7.5	7.0	102	7.2	104	0.74	26.0	150	64	220/270
EN 5	5.5	7.5	9.5	138	9.7	141	0.64	22.4	150	64	220/270
EN 5	5.5	7.5	12.5	181	12.7	184	0.53	18.6	150	64	220/270
Length:575mm Breadth:770mm Height: 1300mm											
EN 5x	5.5	7.5	7.0	102	7.2	104	0.82	29.0	250	66	270
EN 5x	5.5	7.5	9.5	138	9.7	141	0.63	22.4	250	66	270
EN 5x	5.5	7.5	12.5	181	12.7	184	0.53	18.6	250	66	270
EN 7	7.5	10.0	7.0	102	7.2	104	1.06	37.4	270	66	270
EN 7	7.5	10.0	9.5	138	9.7	141	0.93	32.8	270	66	270
EN 7	7.5	10.0	12.5	181	12.7	184	0.76	26.9	270	66	270
EN 11	11.0	15.0	7.0	102	7.2	104	1.74	61.3	280	67	270
EN 11	11.0	15.0	9.5	138	9.7	141	1.42	50.3	280	67	270
EN 11	11.0	15.0	12.5	181	12.7	184	1.21	42.6	280	67	270
Length:575mm Breadth:770mm Height: 1335mm											
EN 15	15.0	20.0	7.0	102	7.2	104	2.05	72.4	320	68	270
EN 15	15.0	20.0	9.5	138	9.7	141	1.65	58.3	320	68	270
EN 15	15.0	20.0	12.5	181	12.7	184	1.54	54.6	320	68	270
Length: 930mm Breadth: 1150mm Height: 1450mm											
EN 15x	15.0	20.0	7.0	102	7.2	104	2.50	89	520	69	BM
EN 15x	15.0	20.0	9.5	138	9.7	141	2.10	75	520	69	BM
EN 15x	15.0	20.0	12.5	181	12.7	184	1.80	64	520	69	BM
EN 18	18.5	25.0	7.0	102	7.2	104	3.10	108	558	69	BM
EN 18	18.5	25.0	9.5	138	9.7	141	2.60	93	558	69	BM
EN 18	18.5	25.0	12.5	181	12.7	184	2.20	76	558	69	BM
EN 22	22.0	30.0	7.0	102	7.2	104	3.60	127	610	69	BM
EN 22	22.0	30.0	9.5	138	9.7	141	3.10	108	610	69	BM
EN 22	22.0	30.0	12.5	181	12.7	184	2.60	92	610	69	BM
EN 30	30.0	40.0	7.0	102	7.2	104	4.30	152	678	69	BM
EN 30	30.0	40.0	9.5	138	9.7	141	3.60	127	678	69	BM
EN 30	30.0	40.0	12.5	181	12.7	184	3.00	106	678	69	BM
Length: 1250mm Breadth: 1025mm Height: 1650mm											
EN 30x	30.0	40.0	7.0	102	7.5	109	5.41	191	850	74	BM
EN 30x	30.0	40.0	9.5	138	10.0	145	4.39	155	850	74	BM
EN 30x	30.0	40.0	12.5	181	13.0	189	3.60	127	850	74	BM
EN 37	37.0	50.0	7.0	102	7.5	109	6.57	232	890	74	BM
EN 37	37.0	50.0	9.5	138	10.0	145	5.47	193	890	74	BM
EN 37	37.0	50.0	12.5	181	13.0	189	4.70	166	890	74	BM
EN 45	45.0	60.0	7.0	102	7.5	109	7.93	280	950	74	BM
EN 45	45.0	60.0	9.5	138	10.0	145	6.80	240	950	74	BM
EN 45	45.0	60.0	12.5	181	13.0	189	5.66	200	950	74	BM
Length: 1576mm Breadth: 1452mm Height: 1802mm											
EN 55	55.0	75.0	7.0	102	7.5	109	9.77	345	1400	80	BM
EN 55	55.0	75.0	9.5	138	10.0	145	8.27	292	1400	80	BM
EN 55	55.0	75.0	12.5	181	13.0	189	7.02	248	1400	80	BM
EN 75	75.0	100.0	7.0	102	7.5	109	13.28	469	1550	80	BM
EN 75	75.0	100.0	9.5	138	10.0	145	10.99	388	1550	80	BM
EN 75	75.0	100.0	12.5	181	13.0	189	9.77	345	1550	80	BM

- Note :**
1. 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)
 2. BM - Base Mounted. * Weight and dimension are for the Base Mounted. ** Compressors mounted on horizontal receiver tank and dryer available as option (for models up to EN15)
 3. DOL Starter for EN 2 to EN 7 and Star Delta Starter for EN 11 to EN 75
 4. Due to continuous engineering improvements, the specifications are subject to change without prior notice.
 5. Product images displayed in this brochure are only for representative purpose 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		
ELRD 020	20	0.57	16	230	50	Single	360	475	570	45	Air
ELRD 040	40	1.13	16	230	50	Single	360	475	570	47	Air
ELRD 080	80	2.27	16	230	50	Single	500	700	735	84	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

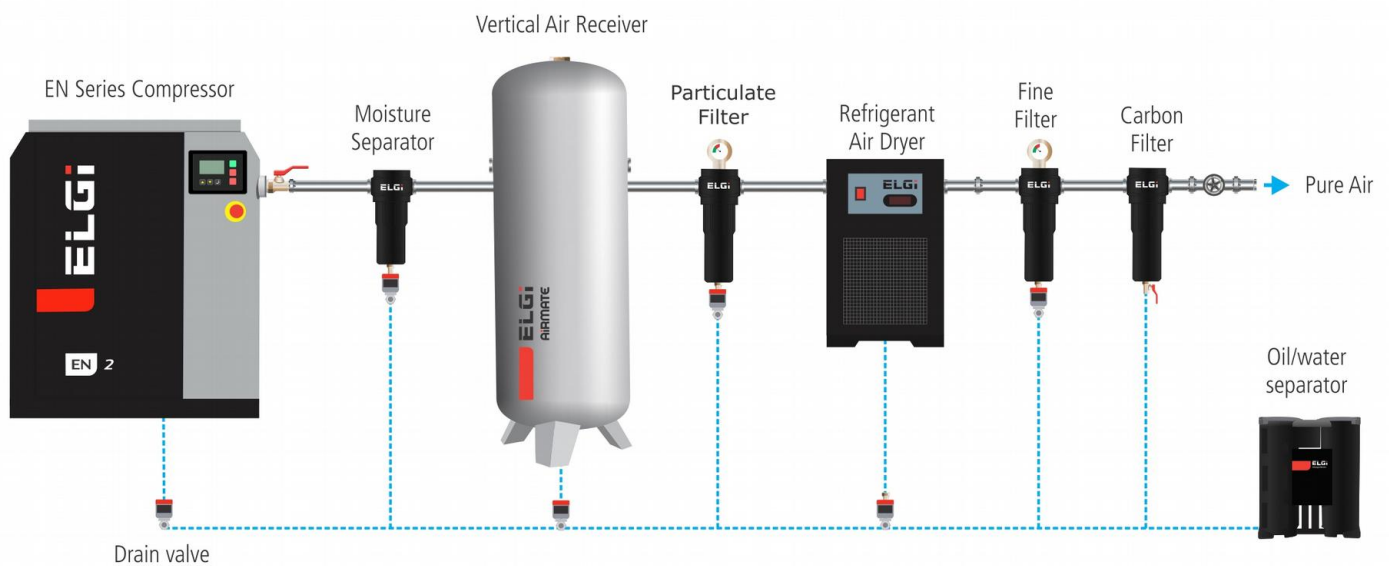
- Capacity : 10-45 cfm
- Working pressure : 16 bar g



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
90 - 450 kW / 572 - 2450 cfm



EG Series Rotary Screw
11 - 250 kW / 47 - 1612 cfm



EN Series Rotary Screw
2.2 - 75 kW / 8.0 - 469 cfm



Electric Portable (Trolley)
22 - 75 kW / 131 - 490 cfm



Diesel portable (Trolley)
175 - 1100 cfm / 100 - 300 psi



Diesel Portable (Skid)
475 - 1500 cfm / 150 - 400 psi



Oil-free Recip
1.0 - 75 HP / 1.8 - 300 cfm



Oil-lubricated Recip
1.0 - 40 HP / 2.0 - 128 cfm

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