



# EN Series Screw Air Compressors

Essentials Encapsulated

# ELGi

Always Better.

**UPTIME**<sup>™</sup>  
ASSURANCE



CIN: L29120TZ1960PLC000351

[www.elgi.com](http://www.elgi.com)

2.2 - 37 kW / 3 - 50 HP (60 Hz)



## 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



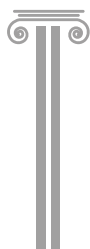
# AIR UP.

**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

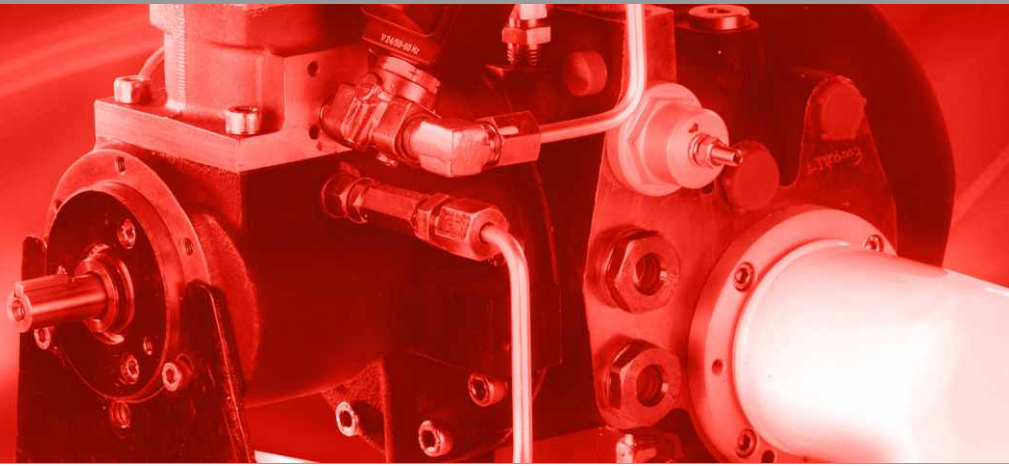
Here is where we back our pledge, Our industry leading warranties, parts availability and call centers staffed by experts assure peace-of-mind to our customers.



# 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

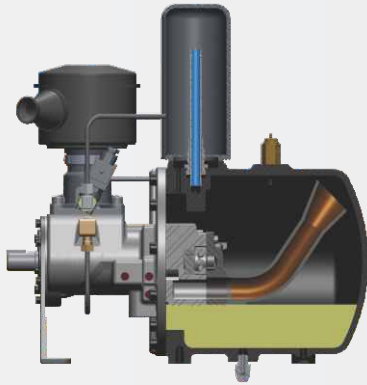
## Encapsulated airend\*

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

## High efficiency motor

- Heavy duty TEFC / S1 / IP55 motor suited for ambient temperature up to 45°C / 113°F
- 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**
	kW	HP	bar g	psi g	bar g	psi g	m <sup>3</sup> /min	cfm			

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

EN 2	2.2	3.0	8.62	125	8.83	128	0.28	9.9	150	61	220/270
EN 2	2.2	3.0	10.34	150	10.55	153	0.25	8.8	150	61	220/270
EN 3	3.0	4.0	8.62	125	8.83	128	0.38	13.5	150	61	220/270
EN 3	3.0	4.0	10.34	150	10.55	153	0.37	13.1	150	61	220/270
EN 4	4.0	5.0	6.89	100	7.17	104	0.61	21.7	150	61	220/270
EN 4	4.0	5.0	8.62	125	8.89	129	0.55	19.3	150	61	220/270
EN 4	4.0	5.0	10.34	150	10.62	154	0.49	17.2	150	61	220/270
EN 4	4.0	5.0	12.06	175	12.34	179	0.44	15.4	150	61	220/270
EN 5	5.5	7.5	6.89	100	7.17	104	0.85	29.9	150	64	220/270
EN 5	5.5	7.5	8.62	125	8.89	129	0.75	26.5	150	64	220/270
EN 5	5.5	7.5	10.34	150	10.62	154	0.63	22.4	150	64	220/270
EN 5	5.5	7.5	12.06	175	12.34	179	0.59	21.0	150	64	220/270

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

EN 7	7.5	10.0	6.89	100	7.17	104	1.2	42.5	260	66	270/500
EN 7	7.5	10.0	8.62	125	8.89	129	1.09	38.5	260	66	270/500
EN 7	7.5	10.0	10.34	150	10.62	154	0.96	34.0	260	66	270/500
EN 7	7.5	10.0	12.06	175	12.34	179	0.85	30.0	260	66	270/500
EN 11	11.0	15.0	6.89	100	7.17	104	1.81	64.0	280	67	270/500
EN 11	11.0	15.0	8.62	125	8.89	129	1.56	55.0	280	67	270/500
EN 11	11.0	15.0	10.34	150	10.62	154	1.46	51.5	280	67	270/500
EN 11	11.0	15.0	12.06	175	12.34	179	1.27	45.0	280	67	270/500
EN 15	15.0	20.0	6.89	100	7.17	104	2.31	81.5	310	68	270/500
EN 15	15.0	20.0	8.62	125	8.89	129	1.93	68.0	310	68	270/500
EN 15	15.0	20.0	10.34	150	10.62	154	1.74	61.5	310	68	270/500
EN 15	15.0	20.0	12.06	175	12.34	179	1.64	58.0	310	68	270/500

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

EN 15x	15.0	20.0	6.89	100	7.10	103	2.63	93	520	69	BM
EN 15x	15.0	20.0	8.62	125	8.83	128	2.32	82	520	69	BM
EN 15x	15.0	20.0	10.34	150	10.55	153	2.10	74	520	69	BM
EN 15x	15.0	20.0	12.06	175	12.27	178	1.95	69	520	69	BM
EN 18	18.0	25.0	6.89	100	7.10	103	3.20	113	558	69	BM
EN 18	18.0	25.0	8.62	125	8.83	128	2.79	98.5	558	69	BM
EN 18	18.0	25.0	10.34	150	10.55	153	2.63	93	558	69	BM
EN 18	18.0	25.0	12.06	175	12.27	178	2.32	82	558	69	BM
EN 22	22.0	30.0	6.89	100	7.10	103	3.74	132	610	69	BM
EN 22	22.0	30.0	8.62	125	8.83	128	3.34	118	610	69	BM
EN 22	22.0	30.0	10.34	150	10.55	153	3.03	107	610	69	BM
EN 22	22.0	30.0	12.06	175	12.27	178	2.72	96	610	69	BM
EN 30	30.0	40.0	6.89	100	7.10	103	4.39	155	678	69	BM
EN 30	30.0	40.0	8.62	125	8.83	128	3.91	138	678	69	BM
EN 30	30.0	40.0	10.34	150	10.55	153	3.57	126	678	69	BM
EN 30	30.0	40.0	12.06	175	12.27	178	3.31	117	678	69	BM

## Length: 1244.6mm Breadth: 1016mm Height: 1651mm

EN 30x	30.0	40.0	6.89	100	7.38	107	5.64	199	850	74	BM
EN 30x	30.0	40.0	8.62	125	9.10	132	4.81	170	850	74	BM
EN 30x	30.0	40.0	10.34	150	10.82	157	4.30	152	850	74	BM
EN 30x	30.0	40.0	12.06	175	12.55	182	3.79	134	850	74	BM
EN 37	37.0	50.0	6.89	100	7.38	107	7.05	249	890	74	BM
EN 37	37.0	50.0	8.62	125	9.10	132	5.86	207	890	74	BM
EN 37	37.0	50.0	10.34	150	10.82	157	5.41	191	890	74	BM
EN 37	37.0	50.0	12.06	175	12.55	182	4.84	171	890	74	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 37
  4. 220V / 380V / 440V 60Hz variants available
  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 <sup>3</sup> /min		Volts	Hz	phase	length	breadth	height		
EGRD 020	20	0.57	16	230	60	Single	395	515	500	25	Air
EGRD 040	50	1.15	16	230	60	Single	395	515	500	28	Air
EGRD 080	75	2.12	14	230	60	Single	380	420	775	33	Air

**Note:**

\* for models upto EN15

Performance data is measured at 7 bar / 102 psi, inlet temperature 45°C / 113°F, ambient temperature 35°C / 95°F, pressure dew point +3°C / 37°F  
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

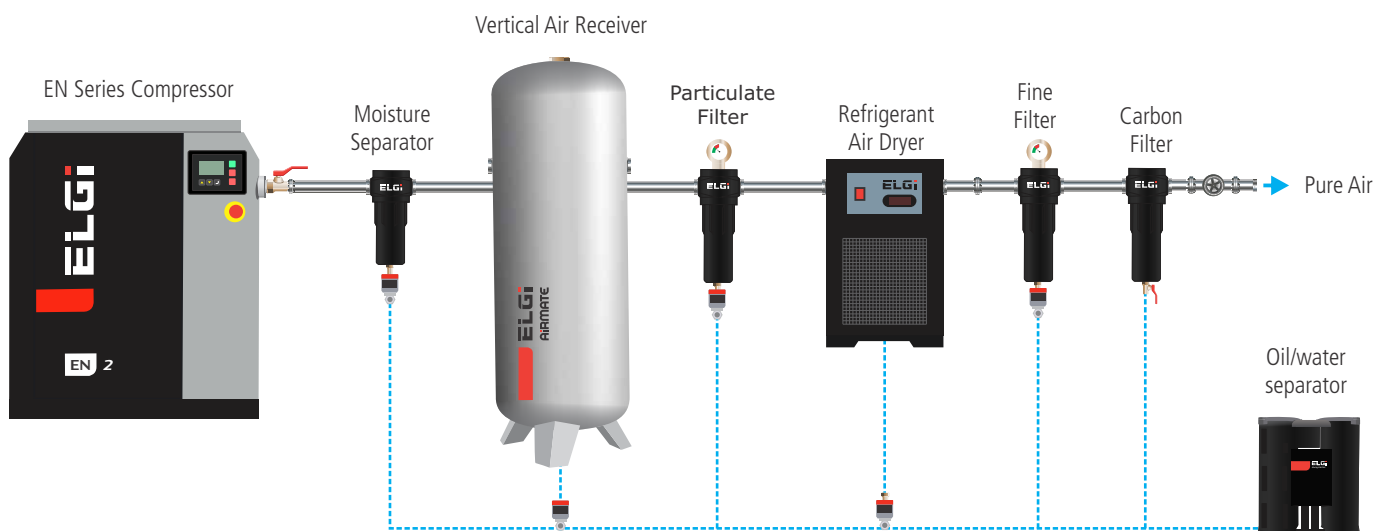
- Capacity : 10-45 cfm
- Working pressure : 16 bar g



### 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 / 480 - 2515 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)**  
185 - 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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