

**ELGI**<sup>®</sup>  
Always Better.

# EN SERIES

Encapsulated Lubricated  
Rotary Screw Air Compressors

High Reliability  
For Small Spaces

3 - 37 kW | 4 - 50 HP



# EN SERIES

Compact | Reliable | Quiet

**We are constantly evolving to suit the needs of our customers.**

For more than 60 years, ELGi has built world-class compressors to address specific industrial needs. ELGi's EN Series is compact, reliable, and quiet. It offers various features for industries where size, reliability, and cost matter.

**ELGi's EN Series screw air compressors are designed to encapsulate all functional components and the compressor within one common housing. With their small footprint, high reliability, and low maintenance requirements, the EN Series compressors are ideal for small and medium scale industries such as food packaging, sorting, garages, machining, and fabrication workshops.**

## Applications



Car Wash



General Manufacturing



Automotive Service Station



Packaging



Wood Working



Metal Working

# EN SERIES

High Reliability for Small Spaces



Compact and Elegant  
Design

Best-in-Class  
Reliability

Industry Leading  
Warranty

Encapsulated  
Airend

# EN SERIES

## Features and Benefits

### Energy Efficiency through Encapsulated Components

The EN series is compact and offers a space-saving design powered by ELGi's energy-efficient  $\eta$ -V profile, with low possibility of leaks due to integrated components and connections.

In addition, the unique machine supports the user by saving energy, minimizing operational pressure drops, saving space and operating quietly.



### Highly Efficient Air-Oil Separation

The air-oil separation by impact and deceleration action involves three stages for efficient air-oil separation with (<3ppm)

#### Stage 1

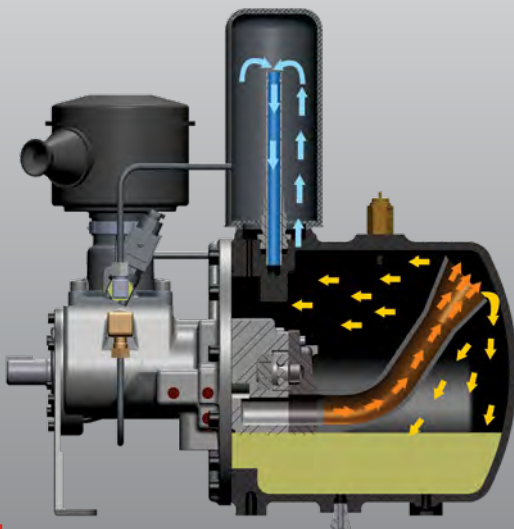
Impact of air-oil mixture on the tank's circumferential area.

#### Stage 2

Deceleration action of air-oil mixture to remove oil particles.

#### Stage 3

Air with minor traces of oil enters the spin on separator.

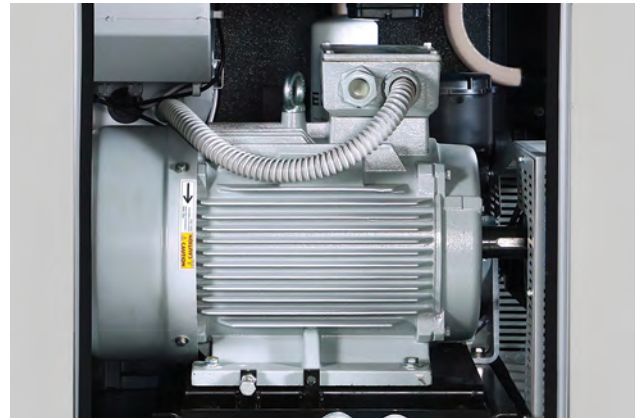


## The Ideal Compressor for Industrial Applications where Size and Cost Matter.



### EN Series

- Great Value
- Robust Design for Great Reliability
- Flexible Configurations
- Quiet Operation
- Service Friendly



### Industrial Duty Motor

- TEFC for Severe Duty
- Maximizes Productivity
- Highly Efficient - Saves Energy
- Suitable for Higher Temperature Environments
- Robust Design - Increases Reliability

## Neuron XT Controller

Custom Designed and Efficient Control Solution

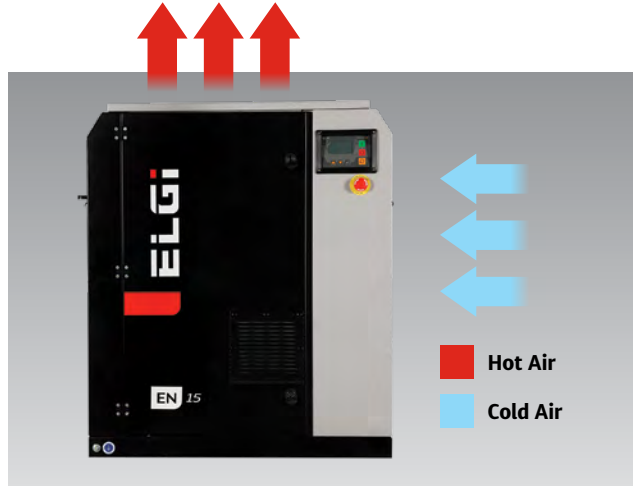
### Increase System Productivity

The Neuron XT controller is a custom-designed and efficient control solution that allows users to monitor and control overall performance with easy-to-use service indications, malfunction alarms, and safety shutdowns. Built-in with service protect modules, the controller includes service and operational log features to provide real-time feedback and increase system productivity.



**Remote start/stop ability | MODBUS communications for DCS control through RS485 port | In-built phase loss and phase reversal protection**

## Ingeniously Constructed for Higher Reliability.



## Ease of Maintenance

- Single Service Door Access for Routine Maintenance Parts
- Spin-On Oil Filter and Separator
- 10,000 Hour Belt Life

## Robust Cooling System for High Ambient Temperatures

The EN compressor is built for high ambient temperatures up to 115° F.

Standard after cooler offers:

- Easy Ducting
- Thermal Expansion without Cracking
- Low Energy
- High Reliability

## Save Energy by Optional VFD

### Optional Variable Speed Drive for Energy Efficiency

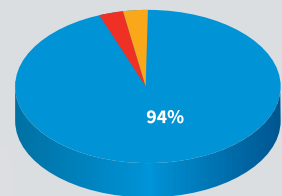
ELGi's EN Series Variable Speed Compressor is energy efficient, which matches the output with demand by varying motor speed. When the demand goes down, the power consumption also goes down, eliminating the frequent load unload cycle, thereby saving energy over time.

Only available for EN07-EN15 models



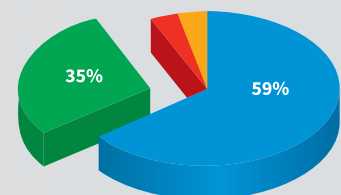
Compressor without VFD

3% 3%



Compressor with VFD

3% 3%



■ Electricity Cost   
 ■ VFD Savings   
 ■ Equipment Cost   
 ■ Maintenance Cost

## Compact Design, Reliable Performance and Significant Savings



### Low Cost of Maintenance

The EN series has a slow-running airend with fewer parts and connections than any other compressor in its class, which ensures minimal maintenance.



### Flexible Configurations

- Tank Mounted or Base Mounted
- Duplex (two compressors on one tank)
- Mounted refrigerated or desiccant dryer
- Various PSI and voltage configurations available
- Fixed speed or variable speed



### Global Safety Standards

The robustly built EN Series compressors meet all global safety standards, including CE.



### Best-in-Class Warranty

- 6-year airend warranty
- 5-year package warranty
- No service contract required
- Ensures peace of mind

\* Terms and Conditions Apply



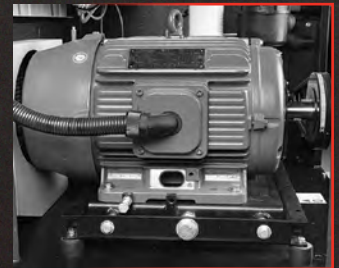
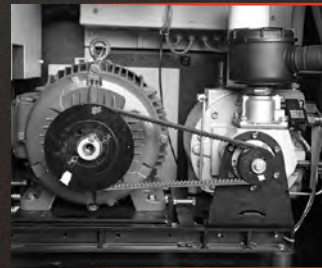
### Low Noise Levels

Low noise level contributes to a safe working environment.



### Improved Compressor Life

- Clean suction air keeps internal components clean
- Increases cooling efficiency
- Extends compressor life



## Technical Specifications - 60Hz

Model	Rated Power		Working Pressure	Maximum Pressure	Free Air Delivered	Weight*	Sound Level	Tank**
	kW	HP	psi g	psi g	cfm	(lbs)	(dbA)	gal
Length: 24.2 Width: 28.1 Height: 33.3 (in inches)								
EN 3	3.0	4.0	125	128	13.5	352	61	60
EN 3	3.0	4.0	150	153	13.1	352	61	60
EN 4	4.0	5.0	100	104	21.7	352	64	60
EN 4	4.0	5.0	125	129	19.3	352	64	60
EN 4	4.0	5.0	150	154	17.2	352	64	60
EN 5	5.5	7.5	100	104	29.9	402	64	60
EN 5	5.5	7.5	125	129	26.5	402	64	60
EN 5	5.5	7.5	150	154	24.2	402	64	60
Length: 34.4 Width: 31.5 Height: 39.7 (in inches)								
EN 7	7.5	10.0	100	104	42.5	573	66	120
EN 7	7.5	10.0	125	129	38.5	573	66	120
EN 7	7.5	10.0	150	154	34.0	573	66	120
EN 11	11.0	15.0	100	104	64.0	617	67	120
EN 11	11.0	15.0	125	129	55.0	617	67	120
EN 11	11.0	15.0	150	154	51.5	617	67	120
EN 15	15.0	20.0	100	104	81.5	683	68	120
EN 15	15.0	20.0	125	129	68.0	683	68	120
EN 15	15.0	20.0	150	154	61.5	683	68	120
Length: 36.8 Width: 45.5 Height: 63.2 (in inches)								
EN 18	18.0	25.0	100	103	113	1259	69	N/A
EN 18	18.0	25.0	125	128	99	1259	69	N/A
EN 18	18.0	25.0	150	153	93	1259	69	N/A
EN 22	22.0	30.0	100	103	132	1345	69	N/A
EN 22	22.0	30.0	125	128	118	1345	69	N/A
EN 22	22.0	30.0	150	153	107	1345	69	N/A
EN 30	30.0	40.0	100	103	155	1534	69	N/A
EN 30	30.0	40.0	125	128	138	1534	69	N/A
EN 30	30.0	40.0	150	153	126	1534	69	N/A
Length: 49.2 Width: 40.3 Height: 65 (in inches)								
EN 37	37.0	50.0	100	107	249	1873	74	N/A
EN 37	37.0	50.0	125	132	207	1873	74	N/A
EN 37	37.0	50.0	150	157	191	1873	74	N/A

\*Applicable only for select countries. To know more, please reach out to your nearest ELGi Sales Office or ELGi Channel Partner.

**Note:**

1. Free Air Delivery (FAD) is tested as per ISO 1217 : 2009 Annex. C Ed. 3.
2. Sound level measured as per ISO 2151, Second Edition at 1 m distance in field conditions,+/-3dB(A).
3. Weight and dimensions are for the base mount units.
4. Due to continuous engineering improvements, the specifications are subject to change without prior notice.
5. Compressors rated for 175 psi g working pressure available on request.
6. Compressor and dryer mounted on a horizontal receiver tank available as an option (for models up to EN15).
7. Weight and dimensions for tank mounted units available upon request.



## Technical Specifications - VFD Model

Model	Rated Power		Working Pressure	Maximum Pressure	Free Air Delivered	Weight*	Sound Level	Tank**
	kW	HP						
EN 7	7.5	10.0	100 - 175	104 - 179	19-38	584	66	120
EN 11	11.0	15.0	100 - 175	104 - 179	21-55	628	67	120
EN 15	15.0	20.0	100 - 175	104 - 179	26-63	694	68	120

**Note:**

1. Free Air Delivery (FAD) is tested as per ISO 1217 : 2009 Annexure E Edition: 4.
2. All standard models are air-cooled
3. Sound level measures as per ISO 2151, Second Edition at 1 m distance in field conditions, +/- 3dB(A).
4. Due to continuous improvements, the specifications are subject to change without prior notice.
5. Product images displayed in this brochure are only representative and may not exactly match the actual product.

## Compressed Air Supply System

▶ TANK MOUNT



▶ DUPLEX



▶ BASE MOUNT



### OPTIONS

- Base Mounted
- Simplex (one unit on a tank)
- Duplex (two units on a tank)
- **Complete Air System:**  
Mounted Refrigerated Dryer with Filters
- **Complete Air System:**  
Mounted Desiccant Dryer with Filters
- Dryer Bypasses
- Zero Loss Drain
- VFD - (7 kW - 15 kW / 10 HP - 20 HP)
- 100, 125, 150, 175 psi
- Food Grade Lubricant

**AFTER SALES AND SERVICE**

**PROMPT AND QUICK SERVICE SUPPORT**

ELGi has a wide service network across North America readily available to help with installation and service.

To find the nearest provider visit <https://www.elgi.com/us/distributors/>



**Genuine Spares and Service**

Genuine service and regular service helps avoid unexpected compressor failures and the risk of subsequent damage to other vital compressor components.

ELGi spare parts are designed, manufactured, and checked for quality to meet the standards of a new ELGi compressor. ELGi consistently focuses on improving spare parts to provide customers with the best results.



**ELGi Air Audit**

The 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**



**Drain Valve**  
(Timer controlled and zero loss)



**Oil Water Separator**



**Compressed Air Dryer**



**Moisture Separator**



**Filtration**



**UPTIME MANAGER**

# ELGi

## 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, oil free rotary screw compressors, and oil lubricated 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+

Installations Worldwide

### 120+

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.

**ELGi**<sup>®</sup>  
Always Better.

