

# EQ & EN SERIES

Encapsulated  
Screw Air Compressor

High Reliability  
For Small Spaces

EQ 2.2 - 7 kW | 03 - 10 hp  
EN 5 - 15 kW | 7.5 - 20 hp



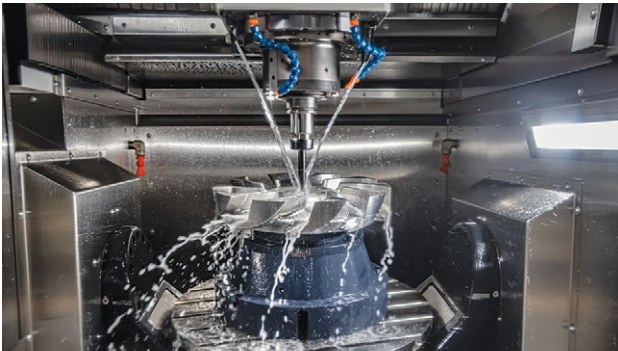
# EQ & EN SERIES

Compact | Silent | Reliable

**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 EQ & EN Series is compact, silent, and reliable. It offers an array of features for industries where size, reliability, and cost matter.

**ELGi's EQ & 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 EQ & EN Series compressors are ideal for small and medium scale industries such as food packaging, sorting, garages, machining, and fabrication workshops.**



General Manufacturing



Vehicle Service Centers



Wood Working



Machining

# **EQ & EN SERIES**

## **High Reliability for Small Spaces**



Compact and Elegant  
Design

Best-in-Class  
Reliability

Industry Leading  
Warranty

Encapsulated  
Airend

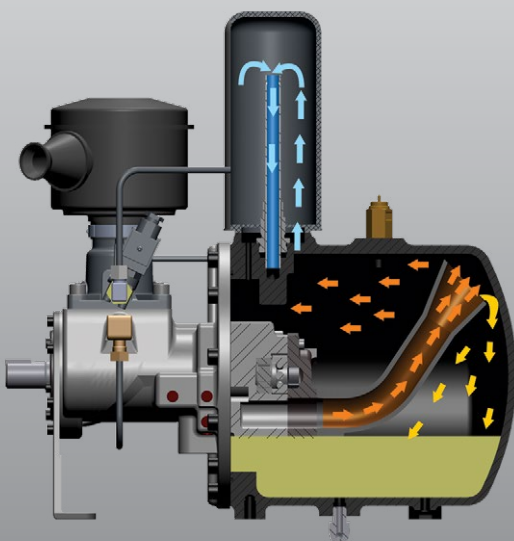


# EQ & EN SERIES

## Features and Benefits

### Energy Efficiency through Encapsulated Components

The EQ & EN Series is compact and offers a space-saving design powered by ELGi's energy-efficient  $\eta$ -V profiles, with zero leakages due to integrated components and connections. In addition, the unique component assembly supports the production process through energy savings, minimisation of operational pressure drops, space-saving, and smooth working due to silent operation.



### 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

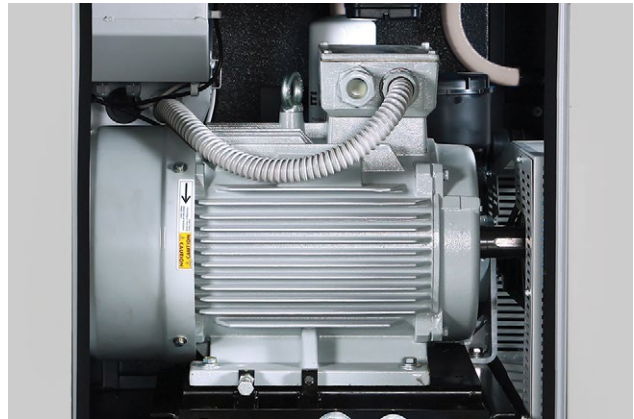
Air with minor traces of oil enters the spin on separator for separation.

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



### Compact Design

The compressor design allows fitting into small spaces, thereby saving space and unrestricted movement in the work area.



### Maximise Productivity with a Highly Efficient and Reliable Motor

The highly efficient heavy-duty TEFC/S1/IP55 motor is suited for ambient temperatures up to 50°C. It has built-in safety systems that prevent breakdowns, saves energy, and maximises production.

## Neuron XT Controller

Custom Designed and Efficient Control Solution

### Increase System Productivity

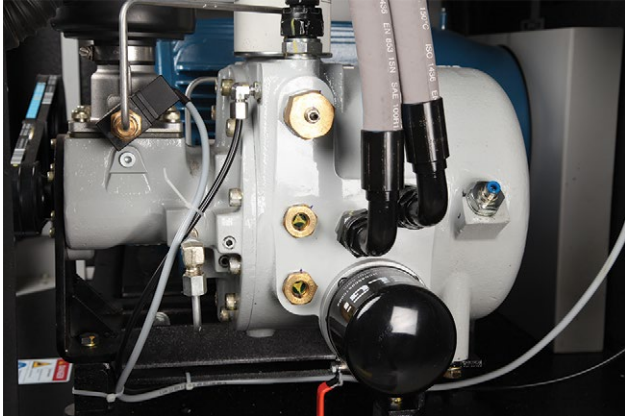
The Neuron XT controller is a custom-designed and efficient control solution that allows users to monitor and control overall performance with easy-to-use service indications, malfunction alarms, and safety shutdowns. Built-in with service protect modules, the controller includes service and operational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



**Designed for a wide range of temperatures up to 50°C | Remote start/stop facility | MODBUS communications for DCS control through RS485 port | In-built phase loss and phase reversal protection**

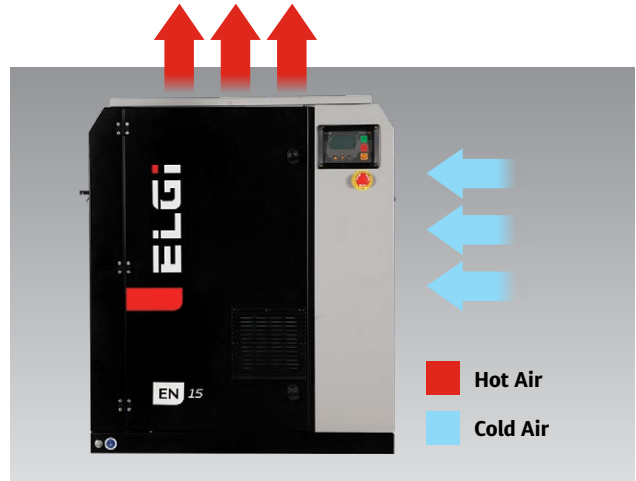


## Ingeniously Constructed for Higher Reliability.



### Ease of Maintenance

The compressor has a single service door access to routine maintenance points and a spin-on oil filter and separator for fast and easy regular service.



### Robust Cooling System in High Ambient Temperatures

The EQ & EN compressor is built for high ambient temperatures up to 45°C, with major components designed for 50°C. Its unique air-cooling system comes with separate hot and cold zones ensuring a long life for the compressor. In addition, the high efficiency coolers and cooling fans ensure low operating temperatures, better energy conservation, and longer operations. An after-cooler comes as standard on all base- and tank-mounted EQ & EN compressors.

## Save Energy

by Optional VFD\*

\*Only applicable to EN series

### 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.



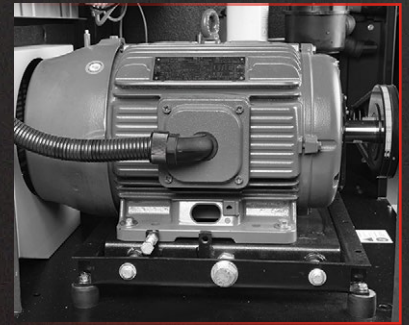
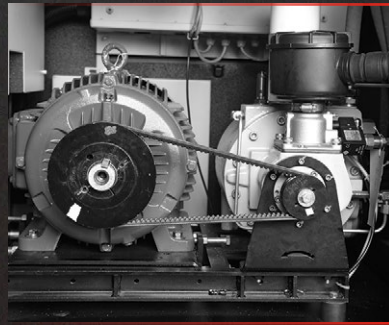
■ Actual Air Demand  
■ Compressor Air Delivery

available for EN5X - EN15 models

## Compact Design, Reliable Performance and Significant Savings

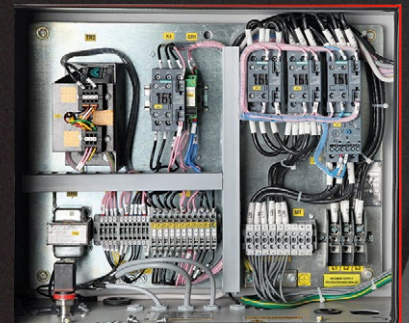
### Low Cost of Maintenance

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



### Modular Design to Accommodate a Tank and Dryer

Enabled to remove moisture from compressed air efficiently.



### Global Safety Standards

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



### Best in class warranty

Superior warranty of upto 6 years on the airend\* and package warranty of 5 years\* irrespective of operating hours.

\* in select regions; contact your local ELGi representative for further details; T&C Apply.



### Low Noise Levels

Low noise levels positively contribute to a safe working environment.



### Improved Compressor Life Time

The air filtration system provides clean suction air that keeps internal components clean and increases the cooling efficiency, thereby increasing the compressor's life.





## EQ Technical Specifications - 50Hz

Model	Motor Power		Working Pressure		Free Air Delivery (FAD)		Weight*	Noise	Tank**	Dimensions L x B x H
	50Hz	kW	HP	bar g	psi g	m <sup>3</sup> /min				
EQ 2	2.2	3.0	7	102	0.37	13.1	143	68	200/270	615 x 715 x 845
			8	116	0.37	13.0				
			10	145	0.25	9.0				
EQ 3	3.0	4.0	7	102	0.48	16.9	143	68	200/270	615 x 715 x 845
			8	116	0.45	16.0				
			10	145	0.37	13.0				
			12.5	181	0.27	9.7				
EQ 4	4.0	5.0	7	102	0.50	17.6	143	68	200/270	615 x 715 x 845
			8	116	0.47	16.5				
			10	145	0.40	14.0				
			12.5	181	0.33	11.8				
EQ 5	5.5	7.5	7	102	0.74	26.1	150	68	200/270	615 x 715 x 845
			8	116	0.69	24.5				
			10	145	0.61	21.6				
			12.5	181	0.53	18.6				
EQ 5X	5.5	7.5	7	102	0.79	28.0	230	68	270/500	825 x 650 x 925
			8	116	0.73	25.6				
			10	145	0.62	22.0				
EQ 7	7.5	10.0	7	102	1.10	38.8	255	68	270/500	825 x 650 x 925
			8	116	1.00	35.4				
			10	145	0.89	31.3				
			12.5	181	0.74	26.3				

## EN Technical Specifications - 50Hz

Model	Motor Power		Working Pressure		Free Air Delivery (FAD)		Weight*	Noise	Tank**	Dimensions L x B x H
	50Hz	kW	HP	bar g	psi g	m <sup>3</sup> /min				
EN 5x	5.5	7.5	7	102	0.84	29.5	230	68	270/500	875 x 800 x 1008
			9.5	138	0.68	24				
			12.5	181	0.54	19.2				
EN 7	7.5	10	7	102	1.13	40	255	68	270/500	875 x 800 x 1008
			9.5	138	0.93	33				
			12.5	181	0.76	27				
EN 11	11	15	7	102	1.76	62	280	71	270/500	875 x 800 x 1008
			9.5	138	1.47	52				
			12.5	181	1.23	43.6				
EN 15	15	20	7	102	2.04	72	310	71	500	875 x 800 x 1008
			9.5	138	1.78	63				
			12.5	181	1.57	55.5				

**Note:**

- Free Air Delivery (FAD) is tested as per ISO 1217 : 2009 Annexure C (Annexure E: for VFD machine) Edition: 4; Sound level measured as per ISO 2151, Second Edition.
- BM - Base Mounted. \*Weight and dimension are for Base Mounted models. \*\*Compressors mounted on horizontal receiver tank and dryer available as option
- Due to continuous engineering improvements, the specifications are subject to change without prior notice.
- Product images displayed in this brochure are only for representative purpose and may not exactly match the actual product.
- For other electrical supply options, reach out to our sales team.



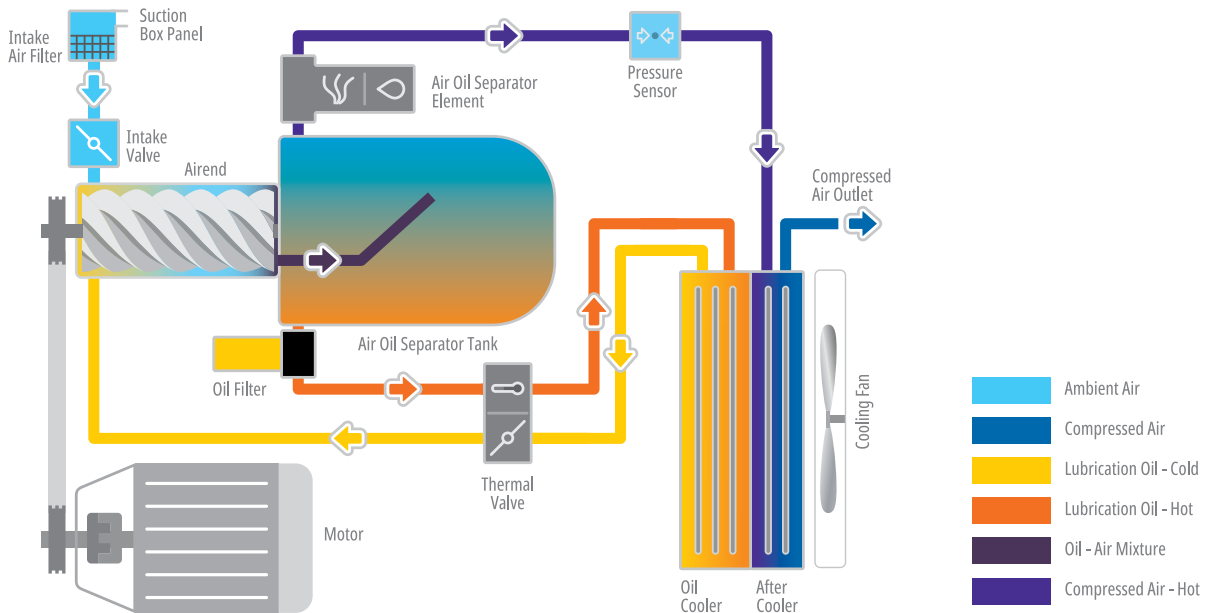
## EN Technical Specifications - VFD Model

Model	Motor Power		Working Pressure		Free Air Delivery (FAD)		Weight*	Noise dB(A)	Tank** Ltrs.	Dimensions L x B x H mm
	50Hz kW	HP	bar g	psi g	m <sup>3</sup> /min	cfm				
EN 5x	5.5	7.5	7	102	0.37~0.84	13~29.5	240	68	270/500	875 x 800 x 1008
			9.5	138	0.29~0.68	10.2~24				
EN 7	7.5	10	7	102	0.55~1.20	19.5~42.5	265	68	270/500	875 x 800 x 1008
			9.5	138	0.52~0.93	18.3~33				
EN 11	11	15	7	102	0.89~1.77	31.5~62.5	285	71	270/500	875 x 800 x 1008
			9.5	138	0.73~1.53	25.7~54				
EN 15	15	20	7	102	1.01~2.05	35.5~72.4	315	71	500	875 x 800 x 1008
			9.5	138	0.88~1.80	31~63.5				

**Options:**

1. Base / Tank / Tank +dryer
2. Fixed speed / Variable speed
3. Mineral oil / Synthetic oil / Food grade oil
4. Duplex option from USA (select region only)

### Air-Oil Flow Circuit



**AFTER SALES AND SERVICE**



**Prompt and Quick Service Support**

With over 350+ distributors and 1200+ service experts worldwide, ELGi ensures seamless operations for our customers.

Genuine ELGi parts prolong the life of the compressor and increase performance. Customers can easily obtain ELGi spare parts from the company's after-sales network that offers genuine customer care and excellent follow-up services.

**ELGi Airmate Accessories**



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



**Oil Water Separator**



**Refrigeration Air Dryer**



**Moisture Separator**



**Filter**



**Air Receiver**



# 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 and oil free rotary screw compressors, oil lubricated and oil free reciprocating compressors and centrifugal 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.

