



# EN Series Screw Air Compressors

Essentials Encapsulated

# ELGi

Always Better.

**UPTIME**<sup>™</sup>  
ASSURANCE



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

03 - 50 HP / 2.2 - 37 kW

## BIG PERFORMANCE IN SMALL PACKAGE



**At ELGi™, we're changing the way you look at compressed air systems.**

**It's no longer just about delivering air. It's about delivering UPTIME.™**

UPTIME™ has just taken a new shape. Presenting ELGi™ EN Series compressors, a compact approach to delivering more value, and more UPTIME™ for your investment.

Packed full of performance, the EN Series uses the world-class technology found in our large, industrial-grade compressors. This includes proprietary air ends, air after coolers, and electronic controllers.

The EN Series integrates major systems such as the air intake system, compression system and oil separation system into one robust, encapsulated system.

energy saving system that keeps your business running smoothly, efficiently and profitably.



ELGi screw compressors have undergone testing and certification by the Compressed Air and Gas Institute (CAGI) under the performance verification program



### **AIR UP.**

**Only ELGi™ gives you the UPTIME™ Advantage: compressors designed to run cooler, cleaner and longer. This makes the ELGi™ EN Series easy to maintain with low cost of ownership, high reliability with more uptime. The EN Series is built with premium, leak-free components; all backed by industry-leading warranties, parts availability and service.**

#### **UPTIME™ Design.**

By integrating all major systems, and using fewer parts, our simplistic yet breakthrough design eliminates connections. That means there are no leaks and no pressure drops. Our compact, integrated platform is also designed to run cool and efficient: all EN Series models are equipped with air after coolers – even our smallest units.



ELGi™ EN Series platforms deliver industry-leading UPTIME™, energy efficiency and sound levels in a compact size and full array of optional features.

**UPTIME™ Components.**

World-class components come standard on every EN Series compressor. This includes premium efficiency motors, premium branded components and complete system control and monitoring with electronic controllers.

**UPTIME™ Assurance.**

Here's where we further remove your risk, with the industry's most comprehensive, worry-free assurance plan. This includes a six-year warranty on air ends and a 48-hour air back pledge.

# UPTIME™ DESIGN : KEEPING YOU RUNNING, FOR LESS MONEY



## FULLY INTEGRATED, ENERGY SAVING

Exclusive ELGi™ air ends encapsulate all major functions into a common frame, so there's no threat of leaks or energy-robbing pressure drops. So you'll save energy and reduce maintenance costs.

Integrated into the encapsulated air end are major components such as:

- Air filters
- Air intake valve
- Solenoid valve
- Air-oil separator tank
- Oil separator element
- Oil filter
- Safety valve
- Oil sight glass
- Minimum pressure valve
- Oil drain valve
- Thermostatic valve
- Blow down valve



## BEST-IN-CLASS SOUND LEVELS

Gearless operation reduces sound to a best-in-class level - as low as 61 dBA – which is about the same volume as conversation speech.

## Stays Cool

ELGi™'s unique Thermo-Zone layout separates hot and cool zones to protect sensitive components. And by adding an after cooler on all models – even the smaller units – you can be assured that the EN Series always delivers cool air. This also means it will run longer, with fewer repair costs.

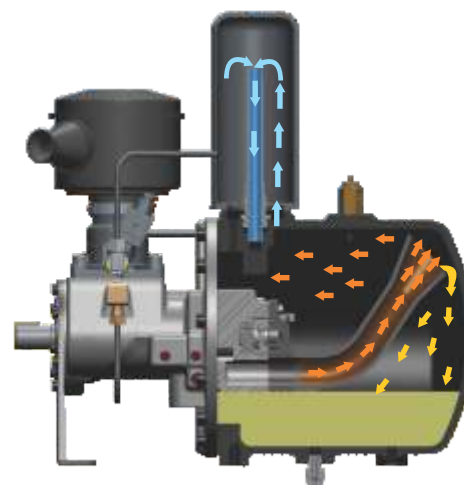
The compressor is designed to operate in wide range of temperatures, up to 115° F. Yet it does so on less energy: power spent on the cooling fan is lowest in its class.

## Ensures Air Quality

ELGi™'s unique OSBID process (Oil Separation By Impact and Deceleration action) efficiently separates oil and air with minimum pressure drops and carry over levels of less than 3 ppm. ELGi guarantees the process for the life of the compressor to give you consistent air quality on less power.

### The three-stage OSBID process involves:

- Stage 1: Impact of air-oil mixture on the tank circumferential area
- Stage 2: Deceleration action of air-oil mixture to shed oil particles
- Stage 3: Air with minor traces of oil will enter the spin-on separator element to purify the air



## Faster serviceability = more uptime

The less time you spend servicing your compressor, the more time it will spend running. That's why we've created easy access to the areas you service most frequently: consumables such as air and oil filters and separator elements; oil fill and drain; safety, thermal, minimum pressure, solenoid and intake valves; hoses and inter-connecting pipes. We've also extended service life intervals for air filters, AOS elements and oil filters. Plus, ELGi™ Airlube™ best in class Premium Compressor Oil.



**UPTIME™ COMPONENTS:  
PREMIUM QUALITY INSIDE AND OUT**

**OUR OWN AIR ENDS**

Exclusive ELGi™ eta-V™ rotor profiles run with higher efficiency to deliver maximum performance. Few companies in the world have the expertise and ability to design and manufacture their own air ends. And nobody makes a more efficient or robust air end.

**Zero Leaks**

Our encapsulated design features internal ports and O-ring sealed flanges for years of leak-free performance

**Heavy-Duty Systems**

Belt-driven NEMA Super E motors, complete with Class F insulation, reserve power and tensioning adjustments, run the EN Series. All electrical components are UL/cUL certified and designed to withstand severe atmospheric conditions.



**Your System's  
Built-In Watchdog**

Monitor and control the overall performance of your compressor with ELGi™'s exclusive Neuron controller. Easy-to-use service indications, fault alarms, hour master indicators and safety shut-downs help ensure maximum uptime.

# UPTIME ASSURANCE PLAN : REMOVE YOUR RISK

**UPTIME™ warranty\*** Every ELGi™ EN compressor is backed by our six-year warranty on air ends. Other key components carry a five-year warranty

**48-hour parts availability** Parts availability shouldn't be a limiting factor for your business. So all ELGi™ distributors stock high volumes of the most consumed parts. However, if they don't have a specific part available, we'll ship it to you within 48 hours.

**Competitive parts pricing** Genuine ELGi™ replacement parts and consumables (oil, filters) are key to protecting your EN Series compressor and ensuring maximum uptime. That's why we offer them at competitively low prices.

**Loaner machines\*** If your compressor goes down, we'll have it repaired within 48-hours or we'll offer you the use of a loaner machine while yours is being repaired.

**Customer Hotline** When you have service issues, you want to speak to a person, not a machine. You also want that person to be local and knowledgeable. Industry professionals who know our products, and your business staff our customer hotline. So they can assist you with quick answers to your needs.

\*Subject to conditions.

**UPTIME™**  
ASSURANCE

Ask your local Distributor how you can avail **UPTIME Warranty**



## INDUSTRIAL APPLICATIONS



Food Industry



CNC machining



Cutting Tools Industry

# WORLD-CLASS PRODUCTS. GLOBAL PRESENCE. LOCAL SERVICE



↑↑↑↑↑  
The EN Series is just the latest innovation from ELGi™. We're a 50-year-old company who has risen to become one of the world's largest manufacturers of air compressors. Our rapidly expanding global footprint now spans 70 countries, 18 offices and 100s of distributors. Our global resources include:

- Leader in technology-embedded products: one of only seven companies in the world to design and develop our own two stage oil-free screw compressors
- Full line provider of portable, rotary screw, reciprocating, centrifugal, marine and railroad compressors
- Designs and manufactures the widest range of proprietary oil-lubricated air ends in the world
- Employs more than 350 engineers worldwide focused on design, development and manufacturing
- Multiple manufacturing hubs with local product assembly worldwide
- 2 million ELGi™ compressors produced power to businesses around the globe, including: ABB, Coca-Cola, Cummins, Halliburton, Johnson Controls, Harley Davidson, Siemens, Pepsi, Disney, Revlon, Tyson, Rockwell medicals, Valspar, Duke energy and many other world-class companies.



Auto garages



Non-medical air



Paper industry

# GIVE YOUR BUSINESS THE UPTIME ADVANTAGE

## Technical Specification 03 – 50 HP (2.2 – 37 kW)

Model	Rated Power		Working Pressure		Max. Pressure		Free Air Delivery		Weight*	Noise	Tank**
	60Hz	kW	HP	bar g	psi g	bar g	psi g	m <sup>3</sup> /min			
<b>Length:24.2 Breadth:28.1 Height: 33.3 (in inches)</b>											
EN 2	2.2	3.0	8.62	125	8.83	128	0.28	9.9	352	61	60
EN 2	2.2	3.0	10.34	150	10.55	153	0.25	8.8	352	61	60
EN 3	3.0	4.0	8.62	125	8.83	128	0.38	13.5	352	61	60
EN 3	3.0	4.0	10.34	150	10.55	153	0.37	13.1	352	61	60
EN 4	4.0	5.0	6.89	100	7.17	104	0.61	21.7	352	64	60
EN 4	4.0	5.0	8.62	125	8.89	129	0.55	19.3	352	64	60
EN 4	4.0	5.0	10.34	150	10.62	154	0.49	17.2	352	64	60
EN 5	5.5	7.5	6.89	100	7.17	104	0.85	29.9	402	64	60
EN 5	5.5	7.5	8.62	125	8.89	129	0.75	26.5	402	64	60
EN 5	5.5	7.5	10.34	150	10.62	154	0.69	24.2	402	64	60
<b>Length:34.4 Breadth:31.5 Height: 39.7 (in inches)</b>											
EN 7	7.5	10.0	6.89	100	7.17	104	1.20	42.5	573	66	120
EN 7	7.5	10.0	8.62	125	8.89	129	1.09	38.5	573	66	120
EN 7	7.5	10.0	10.34	150	10.62	154	0.96	34.0	573	66	120
EN 11	11.0	15.0	6.89	100	7.17	104	1.81	64.0	617	67	120
EN 11	11.0	15.0	8.62	125	8.89	129	1.56	55.0	617	67	120
EN 11	11.0	15.0	10.34	150	10.62	154	1.46	51.5	617	67	120
EN 15	15.0	20.0	6.89	100	7.17	104	2.31	81.5	683	68	120
EN 15	15.0	20.0	8.62	125	8.89	129	1.93	68.0	683	68	120
EN 15	15.0	20.0	10.34	150	10.62	154	1.74	61.5	683	68	120
<b>Length:36.8 Breadth:45.5 Height: 63.2 (in inches)</b>											
EN 18	18.0	25.0	6.89	100	7.10	103	3.20	113	1259	69	BM
EN 18	18.0	25.0	8.62	125	8.83	128	2.79	99	1259	69	BM
EN 18	18.0	25.0	10.34	150	10.55	153	2.63	93	1259	69	BM
EN 22	22.0	30.0	6.89	100	7.10	103	3.74	132	1345	69	BM
EN 22	22.0	30.0	8.62	125	8.83	128	3.34	118	1345	69	BM
EN 22	22.0	30.0	10.34	150	10.55	153	3.03	107	1345	69	BM
EN 30	30.0	40.0	6.89	100	7.10	103	4.39	155	1534	69	BM
EN 30	30.0	40.0	8.62	125	8.83	128	3.91	138	1534	69	BM
EN 30	30.0	40.0	10.34	150	10.55	153	3.57	126	1534	69	BM
<b>Length: 49.2 Breadth: 40.3 Height: 65 (in inches)</b>											
EN 37	37.0	50.0	6.89	100	7.38	107	7.05	249	1873	74	BM
EN 37	37.0	50.0	8.62	125	9.10	132	5.86	207	1873	74	BM
EN 37	37.0	50.0	10.34	150	10.82	157	5.41	191	1873	74	BM

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

## Technical Specification - VFD Model

Model	Rated Power		Working Pressure		Max. Pressure		Free Air Delivery		Weight*	Noise	Tank**
	60Hz	kW	HP	bar g	psi g	bar g	psi g	m <sup>3</sup> /min			
EN 7	7.5	10.0	6.9 - 12.0	100 - 175	7.2 - 12.3	104 - 179	1.18	41.5	584	66	120
EN 11	11.0	15.0	6.9 - 12.0	100 - 175	7.2 - 12.3	104 - 179	1.70	60.0	628	67	120
EN 15	15.0	20.0	6.9 - 12.0	100 - 175	7.2 - 12.3	104 - 179	2.12	75.0	694	68	120

**Note:** • Free Air Delivery (FAD) is tested as per ISO 1217 : 2009 Annexure E Edition: 4 • All standard models are air-cooled • Sound level measures as per ISO 2151, Second Edition at 1m distance in field conditions, +/- 3dB(A) • Due to continuous 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

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