

**ELGI**  
Think Long Run

# ELGI Horizon Single Stage Screw Air Compressor

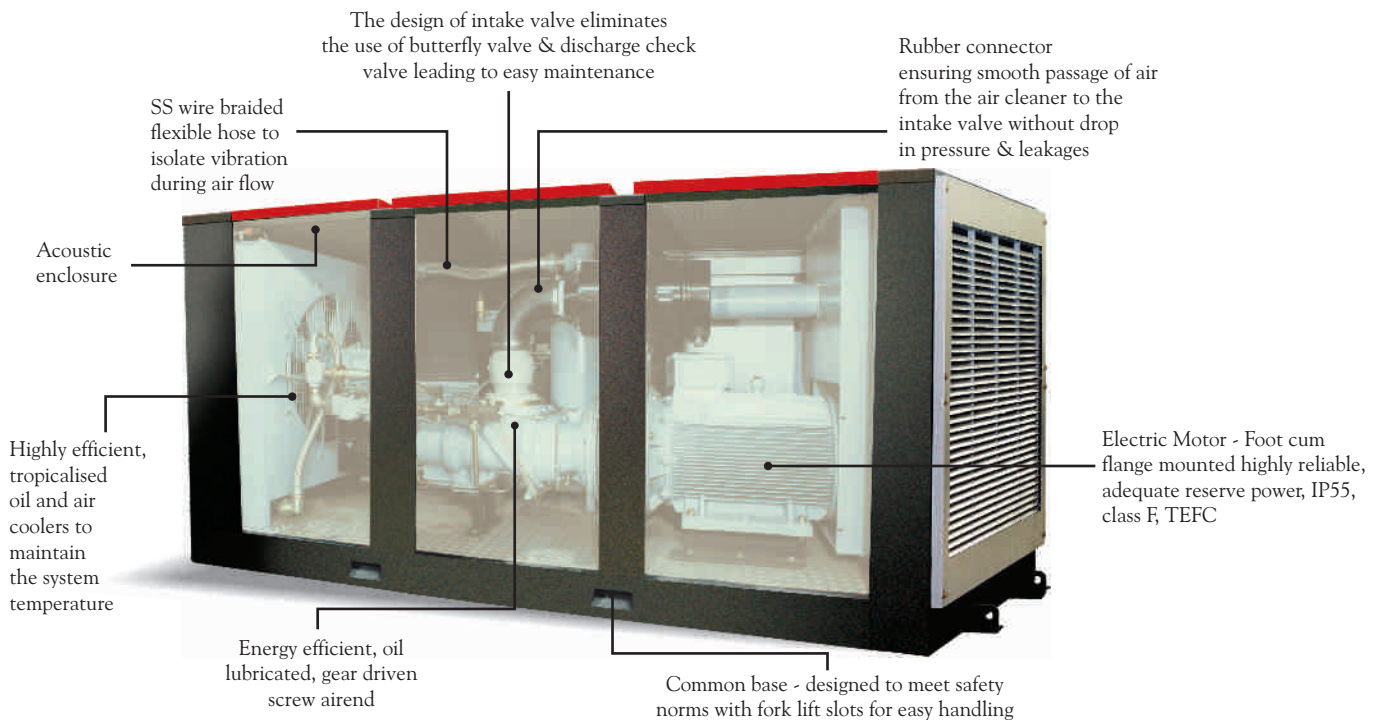
Built to perform.



Think Long Run

# ELGI EQUIPMENTS LIMITED

ELGI, Asia's largest integrated compressor manufacturer has been empowering its customers across the world with seamless solutions and services. ELGI has been developing custom-engineered products that benefit their business and helping them turn challenges in to opportunities. ELGI compressors are designed to deliver quality air, consistently. The ELGI Horizon Single Stage Screw Air Compressor is designed to perfection with maximum output at minimum cost.



## ELGI Horizon Single Stage Screw Air Compressor

### Unparalleled Technology

Behind every ELGI product is cutting-edge technology. ELGI has technical tie-ups with global leaders like City University, London, UK for the new range of energy saving air ends, Hitachi, Japan for oil-free screw air compressors and with Samsung Techwin, Korea for centrifugal air compressors.

### Unequaled Quality

ELGI adheres to ISO 9001:2000 quality system and practises Six sigma, TPM and Quality Circles. ELGI has streamlined its business processes by implementing the latest in ERP solutions from BaaN, Netherlands. High standards in quality have given

ELGI a world-wide customer base. Rotary screw air compressor units and reciprocating air compressor units are exported to compressor manufactures in over 40 countries in America, Europe, Middle East, Africa, South East Asia, Oceania & Neighbouring countries.

### Unmatched Capability

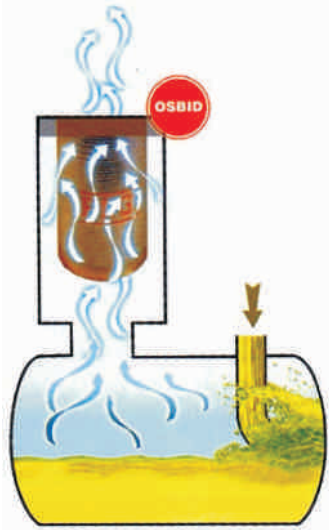
ELGI has two state-of-the-art plants set in 22 acres of land in Coimbatore. The factory area measures 35,000 sq.m. The plants are well-equipped with sophisticated CNC helical rotor cutting machines, tool management centres and a totally integrated machine shop with an array of hi-tech CNC machining

centres.

In short, ELGI has total in house capabilities to design and manufacture products that meet international quality standards.

### Undivided Attention

ELGI firmly believes that its commitment to customers doesn't end with sales. Every product from the ELGI stable is backed by world class service, both during and after the warranty period. A toll free number, accessible round-the-clock, makes customer service a call away. A sophisticated and totally computerised customer care system ensures that your service requirements get top priority.



### OSBID

#### A new horizon in SUPERIOR AIR QUALITY

Over the years, ELGI has perfected the “OSBID” process (Oil Separation By Impact and Deceleration) which enables efficient separation of air and oil, with minimum pressure drop. This process results in consistent quality of air, specifically during the working cycle and unloading.

**The oil carry-over level is consistently less than 3 ppm, with the OSBID process**  
ELGI guarantees the OSBID process for the life of the compressor.

#### Efficiency, for years to come, thanks to the reliable ELGI airend

Our decades of experience in the screw compressor field has paved the way for improving the standards of rotary compressors with more efficient asymmetrical profile rotors. These precise components manufactured in our plant offer pitch line contact on a lubricating film. This ensures uniform efficiency in a constant cycle.

#### Long lasting spin on dual oil filters

Boosts the filtration capacities at all flows and temperatures, which increases the life of bearings.



With a higher flow and lower pressure drop, these filters serve their purpose to give a long life.

#### Capacity control

The volumetric efficiencies of screw compressors lie in the air intake system, which provides the direction and swirl in to the airend. The load and unload cycle which cannot be eliminated in an air system process is a major contribution in power consumption. The E series incorporates the VARION type intake valve with modulation, which helps in optimizing the power statistics at varying loads.



#### High efficiency cooler

The E series comes with the options of air cooled and water cooled configuration. In the newly designed coolers, pressure drop of less than  $0.1\text{kg/cm}^2$  gives the optimum air outlet with 5-7 degrees above the ambient.

#### Aesthetically designed

Compact and user friendly, the E series comes with a powder coated canopy with hinged doors to make servicing easy. These compressors have reduced internal piping and fittings, which increases its efficiency and lowers maintenance cycle.

#### The micro controller edge

- Micro Controller based control unit
- Compatible and user-friendly
- Simple alpha - numerical screen
- Scroll button to monitor operating parameters
- Readouts of pressure and temperature



- On-demand readouts of all operating and maintenance conditions
- Safety shut downs
- Power failure auto re-start
- Dual control

#### Minimum Pressure Valve (MPV)

The lubrication within the compressor is controlled and maintained by the MPV. The Engineered MPV in the E series maintains a pressure of  $2\text{kg/cm}^2$  inside the sump with a pressure drop of less than  $0.1\text{kg/cm}^2$ , thus cutting down the power loss created due to the differential pressures.



#### Air/Fluid separation

The efficiency of a compressor in delivering quality air depends on the tank and the element separating the air from the oil. A highly efficient separator with a fluid carry over of less than 3 ppm ensures the results through a OSBID type receiver tank with reduced oil fill capacities which reduces the maintenance cost and power consumption.



#### Air filters

Filter with twin elements to enhance maintenance and longer replacement period is another product feature added in the Single Stage Compressor. The air filters are designed to give optimum life to the bearings and better air quality due to the enhanced filter efficiencies.



### The ELGI Edge - In Black & White

Rated Motor Power in kW	90 kW		110 kW		132 kW		160 kW	
Model	E90		E110		E132		E160	
Max Working Pressure (Bar)	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm
8	16.7	591	20.4	720	25.0	882	28.3	1000
9	15.4	544	18.6	658	22.7	800	25.9	915
10.5	13.8	488	17.1	604	20.5	725	23.6	835
11.5	12.9	457	16.1	570	19.3	683	22.7	801
13.5	11.4	401	14.2	502	17.3	611	20.8	735

- Refer ISO 1217/1996 (E) on tolerances for AD and power consumption
- Noise level 79dB(A) measured as per Peurop/Cagi DN8NTC2: Tolerance 3 dB(A)
- Available in aircooled and watercooled configurations
- Electrical: 415/380V, 50Hz, 3 Phase, 230/460V, 60Hz, 3 Phase
- Footprint & Weight for Air and Water Cooled compressor for Model E90 - E160
- L X B X H - 3915 X 1600 X 1910 mm, 2800 kg (E90-E160)
- Custom made pressures and configurations can also be offered on request

### The Long Run Benefits only with ELGI

Over 40 years of experience and continuous innovations make the ELGI Horizon Single Stage Screw Air Compressors such a brilliant solution for you. There are a million ELGI machines powering businesses in 40 countries worldwide. They are exceptionally dependable and engineered to global practices like Six-sigma, TPM, TQM and Quality Circles. Added to innumerable product advantages is the invaluable edge of service. A vast dealer network spanning India and the world ensure easy availability and prompt service. The fact is those who think long run, insist on ELGI, the global compressor solutions company