

# IESS INTEGRATED INSTRUMENT AIR SOLUTIONS

## Offering turn-key air compressor building packages

Standard packages offer Elgi rotary screw compressors, simplex or duplex units from 4 hp up to 20 hp. Paired with a Tsunami regenerative air dryer mounted directly on the tank for optimum use of space. This dryer also has an energy saver feature to reduce runtime. The system delivers efficient, reliable, dry air backed by IESS full service support. The 8' X 12' building consisting of highly durable, lightweight polyurethane insulation filled panels compressed between two sheets of 26 gauge galvalume. The building panels are 2" thick and have an R-16 insulation value. Fork pockets, double swing access doors, 7' x 3' double half doors, fixed stationary louver, 12" exhaust fan, electric heater, overhead light & switch, compressor disconnect switches. These Panels are fire retardant, rodent proof, and offer superior thermal protection.

**Custom packages available upon request.**

## Elgi & Tsunami - The Ultimate Combination

IESS has established a reputation for developing custom solutions for the demanding needs here in the Bakken. The field-proven quality of Elgi compressors combined with the unsurpassed performance features of the Tsunami Ultra Dryer system provides end-users with the most economical and reliable dry air for all instrument-air applications. With the compact Elgi platform, this enables us to utilize the same high-quality insulated, ventilated and portable steel building skid for all our instrument air packages.

## Elgi Versatility

The Elgi EN Series compressors utilize the same space-saving enclosure on units from four to twenty horsepower. This allows us to install either a simplex or a duplex compressor atop the same pressure tank. As such, if your application requires lead-lag redundancy in a duplex configuration or a single unit simplex configuration we've got you covered either way.

## Productivity in a Quiet Package

The EN Series compressor deliver superior performance in a compact package. Specifications listed are at 125 psi although the unit can be configured at 100, 125 or 150 psi.

## Elgi Reliability

Elgi's industry-leading 6 Year Airend/5 Year Package warranty is evidence of their confidence in the reliability built into all their compressors.

## Elgi Serviceability

The superior design of the Elgi EN Series compressors features unmatched accessibility when it comes to servicing the machine. All side panels are easily removed in a matter of seconds with convenient latches. The spin-on oil filter and separator are easily replaced, and the drive belt has a 10,000 hour belt life.

MODEL	HORSEPOWER	WORKING PRESSURE	FREE AIR DELIVERED	SOUND LEVEL
EN3	4	125psi	13.Scfm	61dbA
EN4	5	125psi	19.3cfm	64dbA
ENS	7.5	125psi	26.Scfm	64dbA
EN?	10	125psi	38.Scfm	66dbA
ENII	15	125psi	55.0cfm	67dbA
EN15	20	125psi	68.0cfm	68dbA

## 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.



Simplex Configuration

YOUR COMPLETE SOURCE FOR AIR



Duplex Configuration



**CLEAN, DRY AIR**



### **The Tsunami Ultra Regenerative Dryer**

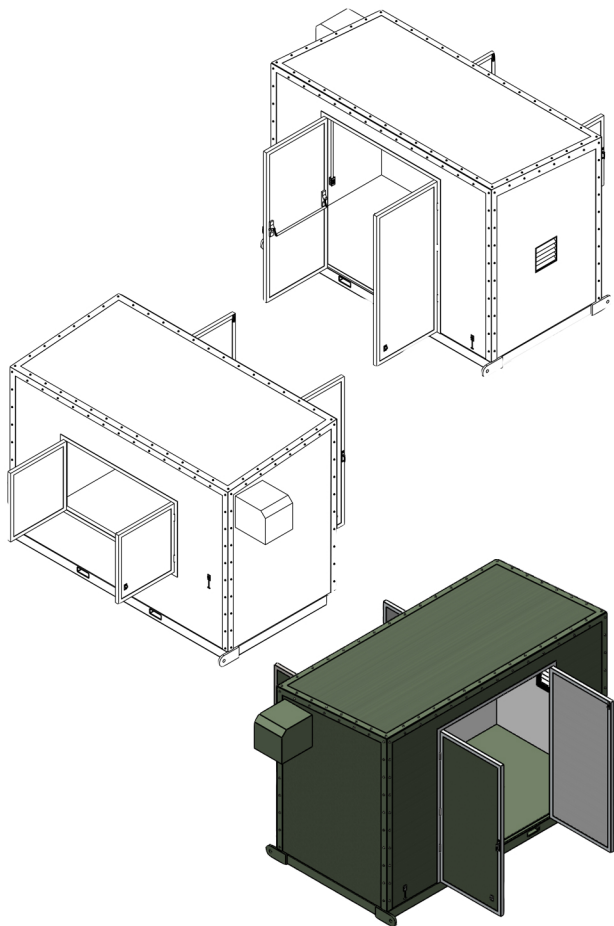
*Tsunami has revolutionized air quality by providing dry compressed air in a compact, easily maintained package with superior performance. The reduced operating costs and efficiency of this system have set new standards industry-wide. Compared to twin tower drying systems, the Ultra Dryer eliminates many of the problems associated with the use of desiccant. The Tsunami regenerative dryer system uses proprietary technology with a molecular sieve desiccant under spring pressure to eliminate contamination which subsequently requires no post-filtration. The PLC actuates the regeneration cycle of the dryer every two minutes to maintain a -40 degree dewpoint with capabilities to -80 degree F should the application require it. In addition, the relatively small footprint of this dryer system allows for the system to be tank-mounted with two, three or four towers depending on the required flow requirements of the compressor.*

### **Maintenance**

*Under normal operating conditions the tower will last approximately three years. Minimal maintenance involves replacing the oil coalescing elements every six months and periodic lubrication of piston assemblies. The Tsunami Ultra Dryer is supported by a 3 year warranty against defects in workmanship and materials.*

### **Energy Saver Feature**

*The optional Energy Saver Feature utilizes a signal from the compressor to actuate the programming in the PLC to complete a regeneration cycle upon the compressor entering a standby mode. This shuts the dryer down thereby saving additional energy consumption and unnecessarily continuing the compressor runtime.*



**Air Source One 5 HP Duplex Configuration**