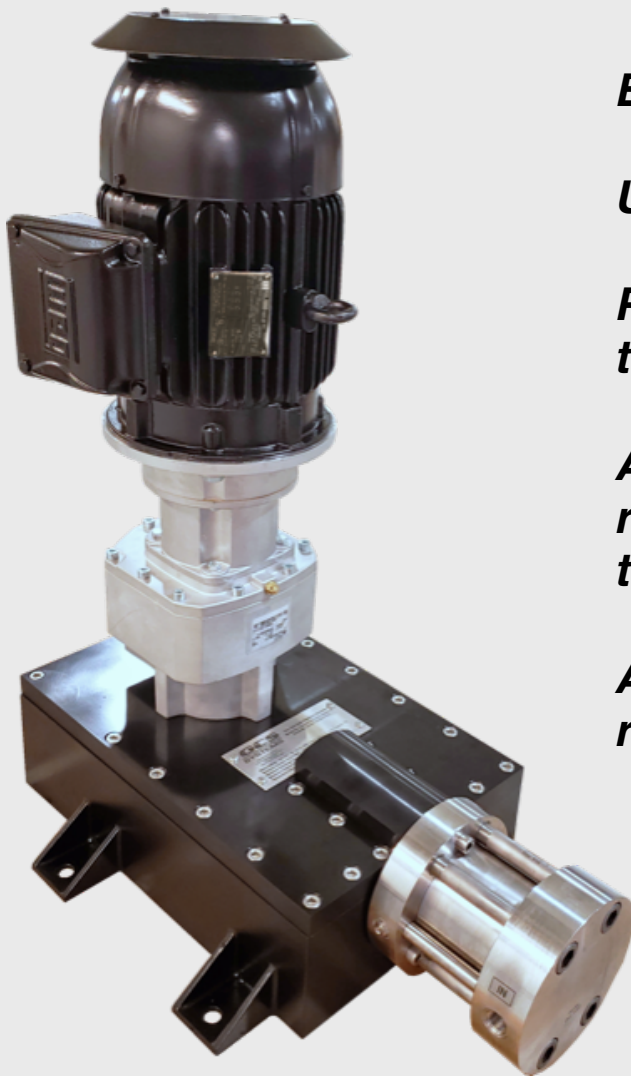


## **EMB Series - 160 bar**



***Electrically-driven***

***Uses no compressed air***

***Proven reciprocating piston technology***

***About 1/3 the horsepower requirement of a regenerative turbine booster***

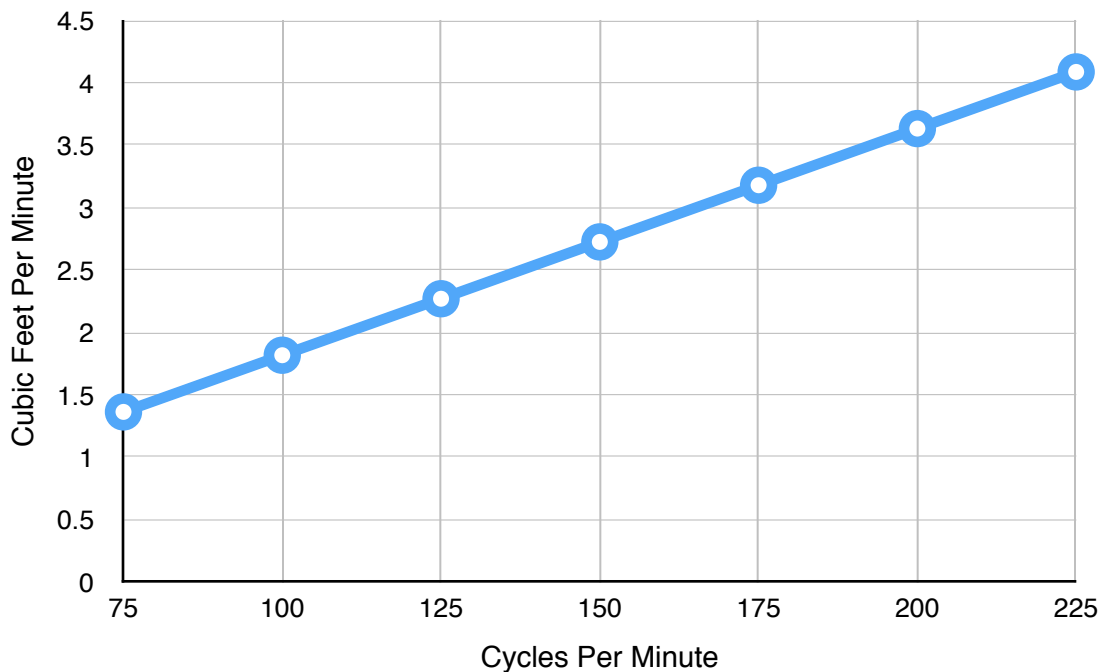
***About 1/5 the cost of a regenerative turbine booster***

# EMB Model Specifications

Designed in accordance with the ASME Boiler and Pressure Vessel Code Section VIII, Div. 1 (not stamped).  
The gas wetted components comply with NACE MR0175/ISO15156-2 and MR0103-2010.  
The motor hazardous area specification is NEMA Class I, Div. 2, Groups C & D.

Maximum Gas Discharge Pressure	2300 psi
Maximum Gas Discharge Temperature	400°F
Maximum Pressure Boost	75 psi
Motor Power	5 HP
Motor Voltage / Frequency	230/460/60 Hz
Booster Cycle Rate	75-230 cpm
Maximum gas displacement flowrate	4.1 acfm
Weight	250 pounds
Inlet/Discharge Ports	1/2 NPT
Gas Wetted Booster Components	316L SS

**Displacement Flowrate in cubic feet per minute**



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Bensenville, IL 60106  
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Fax 630-766-6236  
[www.gascompressionsystems.com](http://www.gascompressionsystems.com)  
[sales@gascompressionsystems.com](mailto:sales@gascompressionsystems.com)

# EMB Model Operation

The EMB Model Dry Gas Seal Booster by Gas Compression Systems, Inc. (GCS) uses a proven, reciprocating piston design with a crosshead for alignment. The piston seal and rod seal are fabricated from non-lubricated filled Teflon®. These seals have been proven effective in over 3000 air-driven reciprocating dry gas seal boosters sold over the last 20 years by GCS.

The crosshead guide rings are made from filled Teflon® and the connecting rod bearing and main drive bearing are permanently greased resulting in a dry gas seal booster design that requires no lubrication and is non-contaminating. A discharge particulate filter is required to remove seal dust from the Teflon® components as they wear.

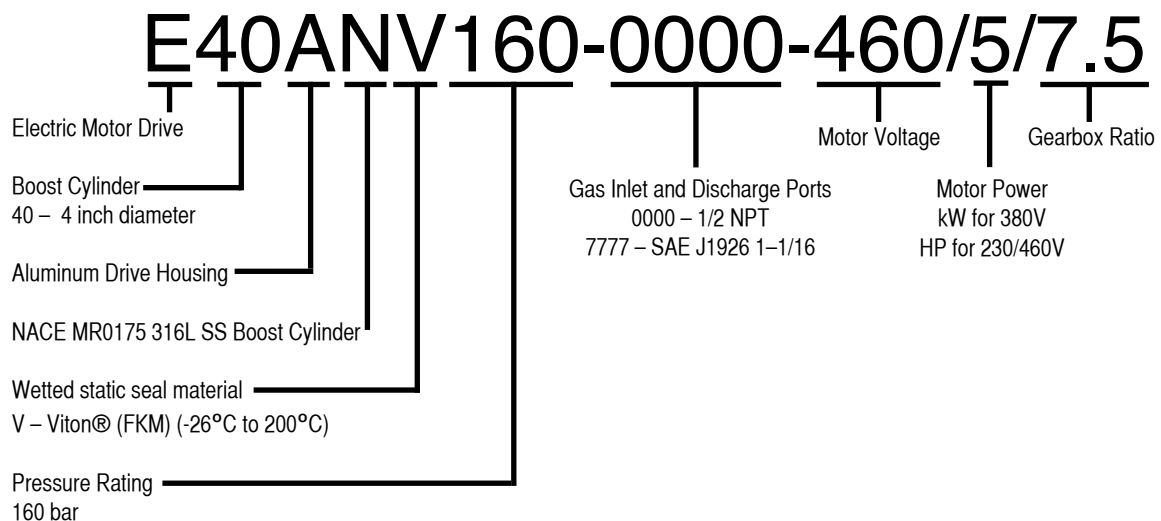
The EMB Model Dry Gas Seal Booster requires no compressed air, uses about 1/3 the horsepower of a regenerative turbine style booster, and sells for about 1/5 the cost of a regenerative turbine booster.

The output flowrate can be controlled by the use of variable frequency drive. If a fixed output flowrate is desired, the unit can be specified with a gearbox that matches the desired flowrate.

The booster will operate 24/7 for over 2000 hours before the seals wear out. It can be rebuilt on-site in 2-3 hours.

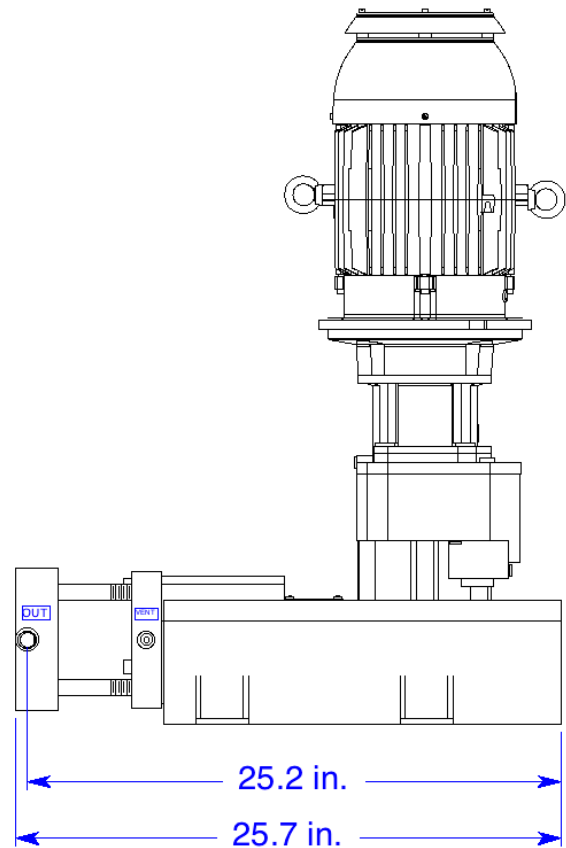
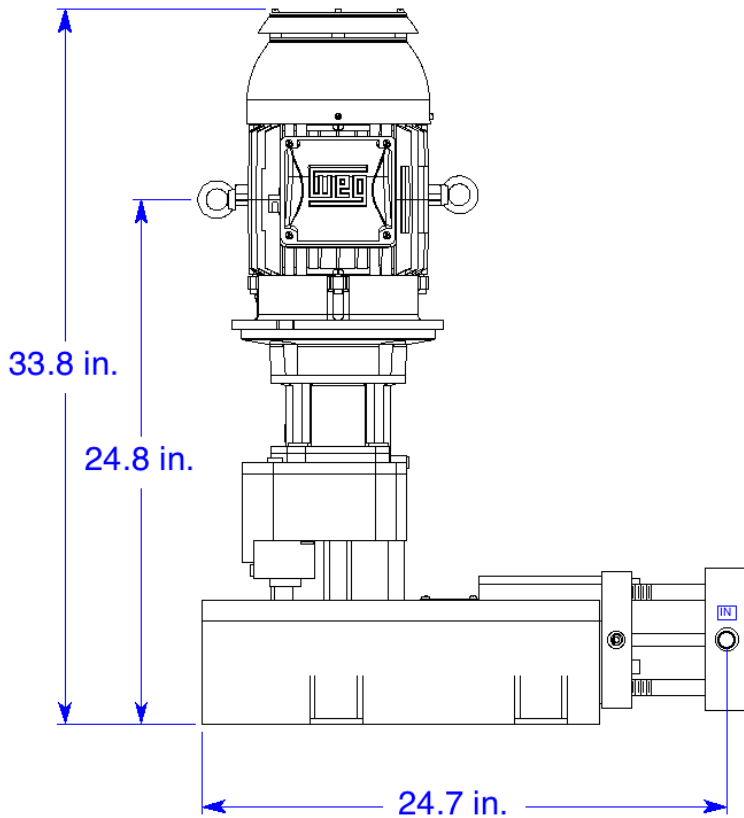
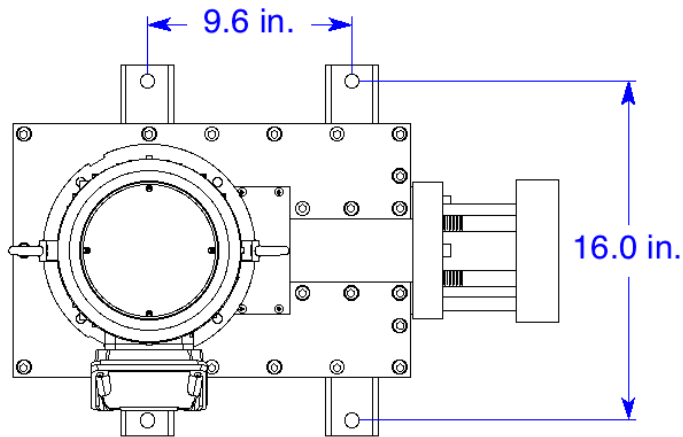
The booster is quiet with noise levels below 80 dB. There are no special foundation requirements because of the low speed operation and low mass of reciprocating components.

## EMB Model Numbering System



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# General Arrangement Drawing



**GCS**  
GAS COMPRESSION  
SYSTEMS

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