

EMB Series - 151 bar



Electrically-driven

Uses no compressed air

Proven reciprocating piston technology

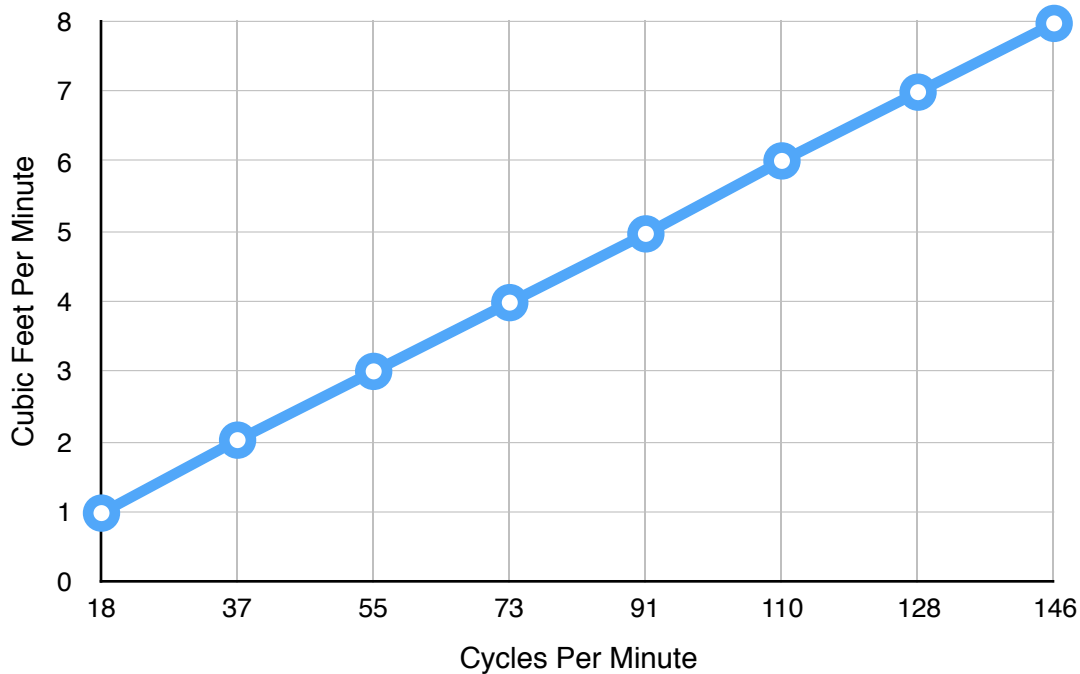
About 1/3 the horsepower requirement of a regenerative turbine booster

About 1/5 the cost of a regenerative turbine booster

E50 Model Specifications

Maximum Gas Discharge Pressure	2190 psi
Maximum Gas Discharge Temperature	392°F
Maximum Pressure Boost	73 psi
Stroke Length	2.5 in.
Boost Cylinder Diameter	5.0 in.
Variable Speed Motor Maximum Power	5 HP
Motor Voltage / Frequency	460 V / 60 Hz
Typical Booster Cycle Rate	73 - 146 cpm
Gas Displacement Flowrate	4.0 - 8.0 acfm
Weight	330 pounds
Inlet/Discharge Ports	1/2 NPT
Vent Port	1/8 NPT
Gas Wetted Booster Components	Duplex & 316L SS

E50 Displacement Flowrate in cubic feet per minute



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EMB Series Operation

The EMB (Electric Motor Booster) Series dry gas seal booster by Gas Compression Systems, Inc. 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 Gas Compression Systems, Inc.

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 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.

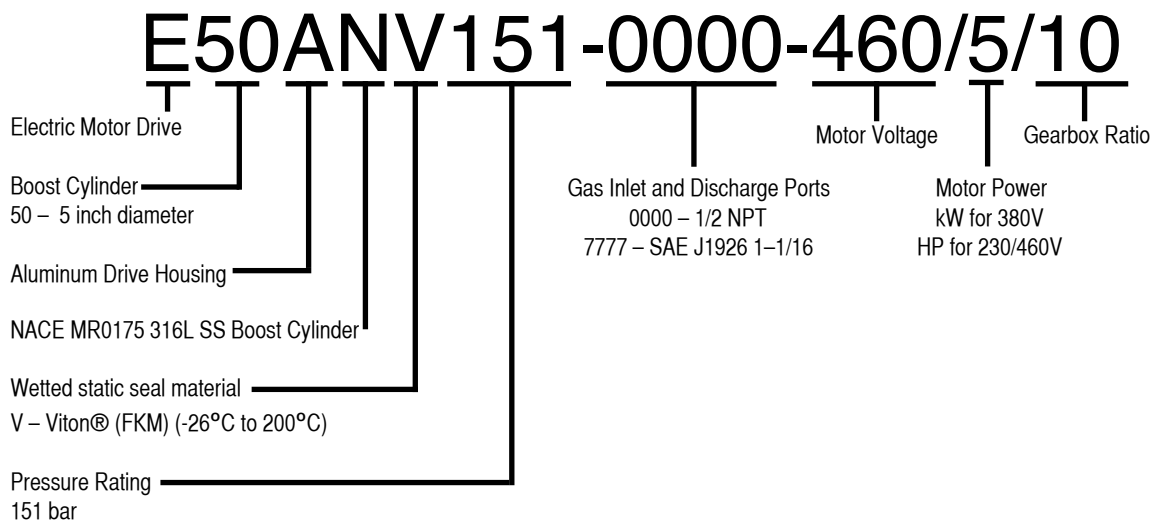
The output flowrate can be controlled by the use of variable frequency drive (not included). If a fixed output flowrate is desired, the unit can be specified with a gearbox that matches the desired flowrate.

The booster will operate continuously for 3000-4000 hours (depending on cycle rate) before maintenance is required.

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.

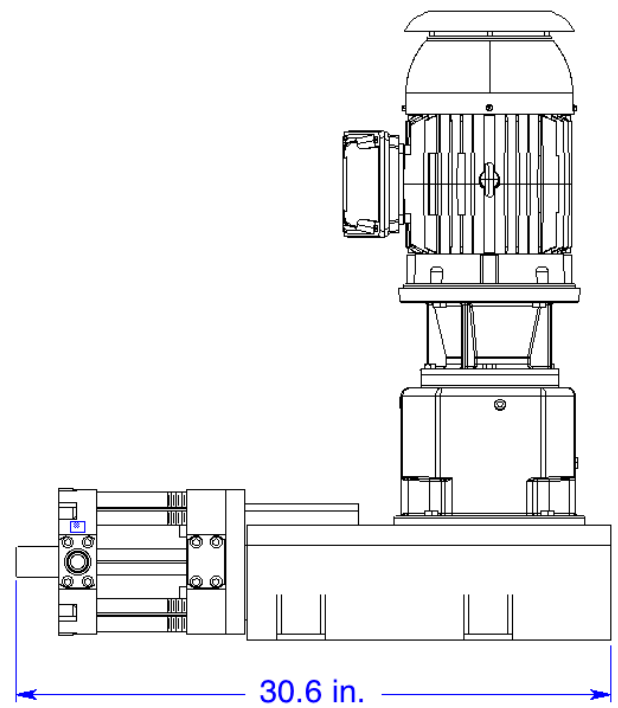
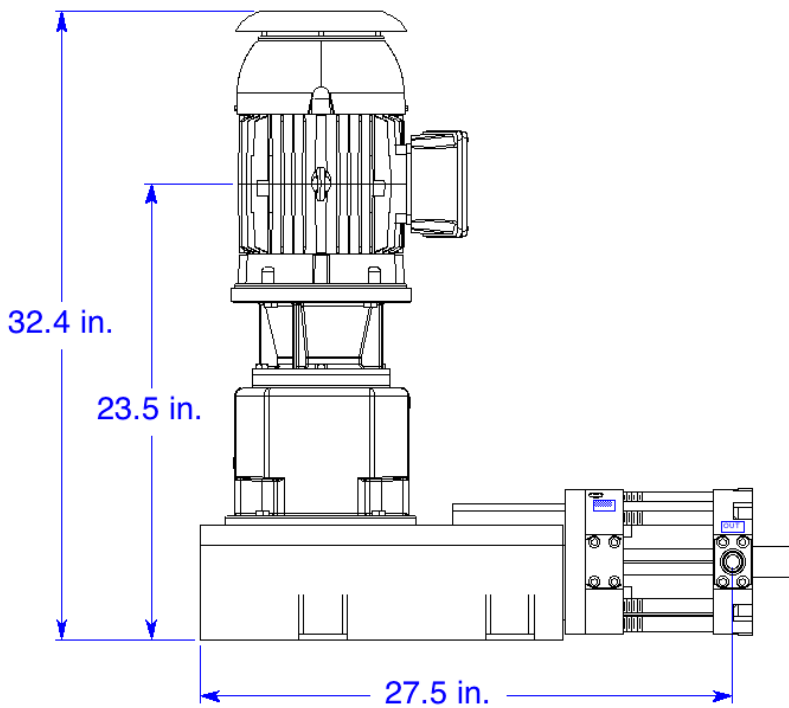
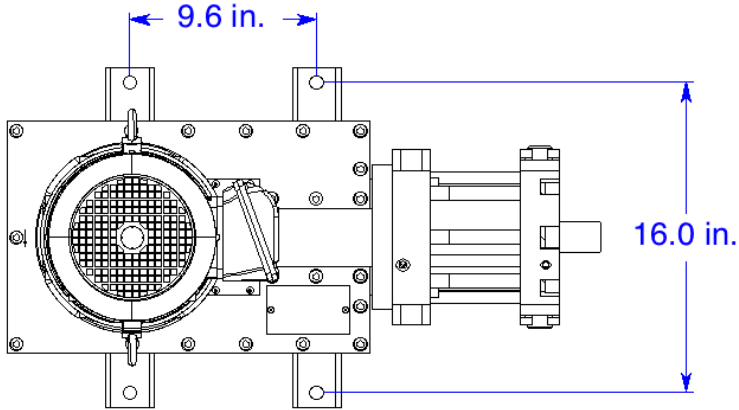
This electric motor driven booster series is designed in accordance with the ASME Boiler and Pressure Vessel Code Section VIII, Div. 1 (not stamped). The gas wetted components comply with NACE MR0175/ISO15156-2 and MR0103-2010. The motor hazardous area specification is NEMA Class I, Div. 2, Groups C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

EMB Model Numbering System



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General Arrangement Drawing



GCS
GAS COMPRESSION
SYSTEMS

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