

# ECLIPSE HERMETIC GAS BOOSTERS

Eclipse Hermetic Gas Boosters are used to increase low inlet gas pressure up to higher levels as required by boilers and process equipment. They deliver the gas at any volume within their capacity range with a relatively constant pressure boost. The discharge pressure is the total of the incoming gas supply pressure plus the booster added pressure and must be less than 5 psi.

These boosters are UL listed for use on natural and manufactured gas. The boost and flow will vary according to the specific gravity of the gas. On natural gas, the selection of models provide pressure boosts from 6 to 38" w.c. and flows up to 100,000 CFH. An optional epoxy coating on all internal surfaces protects against mixtures that contain corrosive compounds.

### **Eclipse series HB applications:**

- The utility's guaranteed gas service pressure is lower than the specified pressures required by boilers or appliances. The Eclipse series HB boosts the incoming gas pressure to allow full and safe operation of all installed gas fired equipment.
- A facility benefits economically with a utility contract allowing curtailment of the natural gas supply. The series HB prevents down time as part of a standby system where it can deliver a substitute propane-air mixture.
- The Eclipse series HB can deliver an air-gas mixture to premix burners.
- A facility where the distribution piping is lengthy and under-sized creates a large pressure drop that results in limited operation. The series HB restores production to full rated capacity.
- Alternative fuels produced by anaerobic digestion, commonly known as sour gas or bio-gas, are collected at landfill or wastewater treatment plants in high volumes but at very low pressures. The series HB boosts these fuels for use in burners or engines for heating, pumping, and cogeneration.

### **Extensively Proven Design For Reliability and Longevity**



Eclipse has been producing gas boosters for over 80 years. This experience has led to a design with a proven history of many installations with a long reliable operational life.

- The hermetic design eliminates the maintenance and wear problems of a shaft seal.
- The flat radial blades of the centrifugal rotor avoid dirt and particle accumulation.
- The premium efficiency motor and rotor can be easily removed without disturbing the piping.

Please also see the BoostPak in Bulletin 630C for a complete packaged solution.

