

**UNIMAC**



Premium quality blower packages through innovative design and superior construction.

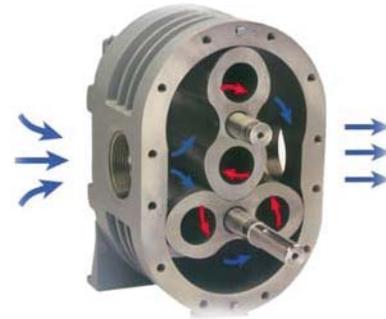
## **MB Series Wellhead Gas Flow Booster**



## WELLHEAD GAS FLOW BOOSTER

### Performance

- Dry rotary PD lobe blower
- Flows to 2.3 MMSCFD
- 1 atmosphere differential pressure
- Vacuum to 16" HG
- Pressures to 25 PSIG.



**Rotary Lobe Blower**



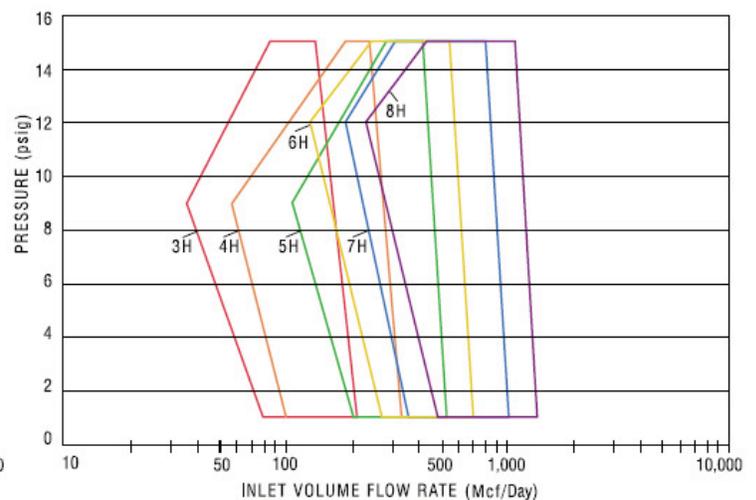
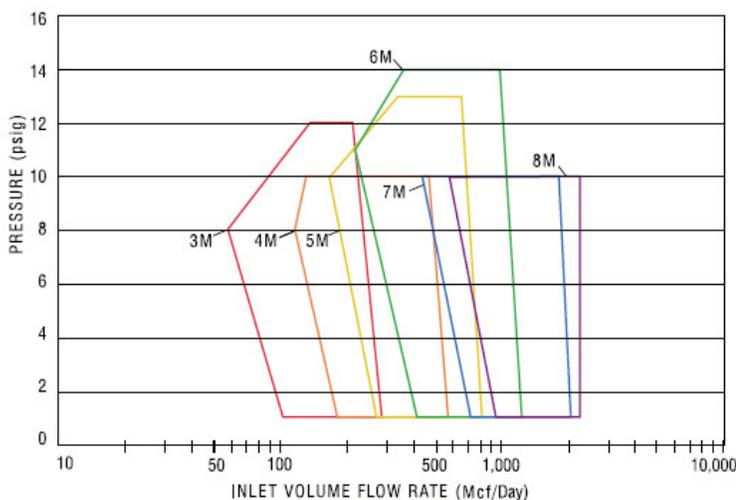
**Sutorbilt Legend**

Lobe blowers are dry with no lubricant or contaminants in the compression cylinder. Two symmetrical impellers, supported by bearings at each end synchronized by timing gears rotate in opposite directions without making contact.

The gas is displaced in a positive manner from the inlet to discharge via the chambers formed between the impellers and the housing. No external cooling systems are required as the heat of compression is carried away in the gas stream.

### Features

- Cylinder is machined from a single piece of cast iron, is heavily ribbed for high-strength and features oversized dowel pins for precise mounting and alignment of head plates.
- Head plates, machined from cast iron, are ground on the interior surface to precise operating tolerances. Bearing fits are machined into head plates to assure exact bearing positioning.
- Impellers are machined from cast iron to an exact profile and are permanently fastened to steel shafts. They are dynamically balanced for smooth operation.
- Precision machined alloy steel timing gears are securely fastened to the shafts assuring non-slip timing.
- Timing gears and gear end bearings are splash lubricated utilizing an abundant oil reservoir. Drive end bearings are grease lubricated through fittings.
- Mechanical carbon face gas seals designed specifically for rotary lobe blower service.



**Performance Chart**

## WELLHEAD GAS FLOW BOOSTER

The MB (Methane Booster) package is specifically designed to boost well head gas flow. Rotary lobe blowers are ideally suited for “unconventional gas” applications such as enhancing the rate of desorption in shale, coal bed methane wells or Landfill gas extraction.

In most cases the rotary lobe blower will produce a one atmosphere (15 PSI) boost from the inlet connection to the outlet, with a maximum discharge pressure up to 25 PSIG. The performance chart covers the differential pressure and flow available from the standard product range. Other sizes and pressures are available.

Reliability, ease of maintenance and minimal service were top design criteria priorities. A rotary lobe blower has a dry compression chamber and does not require a separate coolant-sealing circuit like a flooded screw, liquid ring or vane design. Lift-off enclosure panels with quarter turn latches make access for routine service easy.

### Features

- Significant gas flow enhancement is achievable
- Quiet, 70 dbA with a weatherproof acoustic enclosure
- Low maintenance due to dry compression design
- Designed for Class 1 Div 1 environment
- Designed for -10 F to +100F ambient
- VFD (remote) maximizes well site performance
- Touch screen HMI control (remote)
- State of the art safeties, instruments and controls
- Blower discharge silencer ASME code
- Air cooled ASME code heat exchanger cools discharge gas
- Suction scrubber, ASME code with automatic drain



**MB-6H-40**



**MB-7H-50**

# UNIMAC

Unimac LP, founded on the principle of offering superior blower packages, has a history of innovation and excellence that sets standards for the industry. For twenty years Unimac LP has supplied blower packages on an international scope, with installations in the Middle East, Central and South America, Indonesia and the United States.

Our 16,000 sq. ft. shop is located on over an acre with an overhead crane, welding shop, metal-cutting saws and paint booth. A 600-amp test stand allows full load testing up to 250 HP and a VFD drive allows testing with 50 Hz power, common for international voltages.

Products are designed using Autodesk INVENTOR 2009, and manufactured in house, adhering to standardized quality control procedures. Critical steps in the fabrication process such as cutting, welding, piping, wiring and painting are performed by fabricator-welders, mechanics and technicians experienced in their craft with a proven track record of success in producing quality equipment. The end result is a consistent level of high quality that ships on time and performs as expected.

Pre-designed packages range from bare bones "Base Mounted" to "Quiet Enclosed" for maximum noise attenuation. By standardizing our designs we can streamline the whole manufacturing process, providing an excellent value with faster delivery. Our products incorporate innovative design concepts with added features to improve reliability, extend useful life, and make routine service easier. Attention to detail and an exceptional level of construction quality are evident throughout our products.

Sizes from 1 to 27,000 CFM • Pressures to 40 PSI • Vacuum to 27" Hg • Combined Pressure-Vacuum



Base Mounted



Table Top



Clam Shell



Quiet Enclosed



Gas Booster

