

DRY EXHAUST MANIFOLD CONVERSION UPGRADE

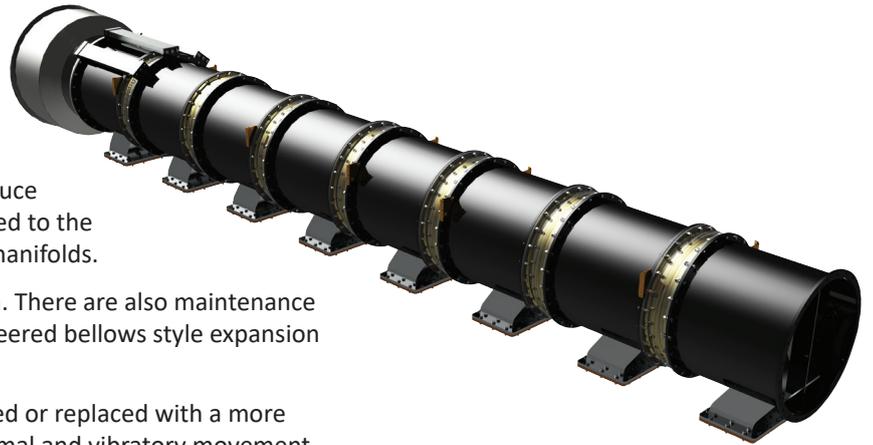
COOPER-BESSEMER™ ENGINES

The proper handling of engine exhaust is essential to both engine performance and efficiency. Improvements in exhaust handling on both Cooper-Bessemer two- and four-cycle engines have been made over the years. The advent of turbocharging for additional horsepower, the use of expansion joints to absorb thermal growth, and the need to reduce overall compressor station heat loads, are all factors that have led to the development of lower maintenance, higher efficiency exhaust manifolds.

The new dry type manifolds result in a large heat load reduction. There are also maintenance benefits, since the manifold is an insulated dry type, with engineered bellows style expansion joints to absorb thermal and vibratory movement.

Older dry type one-piece exhaust manifolds can be reconditioned or replaced with a more modern expansion joint style to reduce cracking caused by thermal and vibratory movement.

On a four-cycle engine, kits are available to replace the expensive, and high maintenance water cooled, pulse style exhaust manifold with a less costly insulated dry type, constant pressure unit. The conversion is complete with bellows style expansion joints to absorb thermal and vibratory movement.



Features/Benefits

- › **Reduced heat load:** Removing the water jacketed manifold reduces the overall cooling load for the engine. This can mean 1,750,000 Btu/hour saving for one GMW-10 alone. Allows better engine cooling, even in hot, dry climates.
- › **Lower maintenance:** A dry manifold will not have the corrosion and cracking inherent with a water-cooled unit. The dry type manifold, with its engineered expansion joints will have less damaging stress caused by thermal growth.
- › **Greater turbo efficiency, lower engine room heat:** The dry insulation is more efficient, due to better overall coverage of hot components. On turbocharged engines, this means more heat is retained for the turbos. With all engines, the radiant heat is lower.

LEGENDS DON'T STOP. WE MAKE SURE OF IT.™

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