

**Sulzer Turbo Services New Orleans Inc**

## Operate Your Diesel Engine on Natural Gas

The **GTI Bi-Fuel®** System from Altronic, Inc. is an innovative technology that enables operators of heavy-duty diesel engines to substantially reduce operational costs and lower emissions by substituting diesel fuel with lower cost, cleaner-burning natural gas. The Bi-Fuel® System is comprised of patented technologies that allow engines to safely operate on gas percentages up to a maximum of 70%\* of the total fuel requirement. Engines converted to GTI Bi-Fuel® exhibit diesel-like performance in such critical areas as efficiency, stability and load acceptance.

A key feature of the Bi-Fuel® System is its ability to switch fuel modes without interruption in engine power output. The engine can be switched between diesel and gas automatically while maintaining speed and load. This feature gives the user the flexibility to choose between gas and diesel modes as dictated by fuel pricing, fuel availability or other operational considerations. An equally important feature of the Bi-Fuel® System is its ability to maintain engine power levels while operating in gas mode between the “continuous” and “prime” ratings of the engine. For operations above the programmed power limit, the engine is automatically switched to 100% diesel mode, thus avoiding the necessity to de-rate the engine. In applications where the load varies substantially, the optional Dynamic Gas Control (DGC) version of the system provides for adjustment of the gas substitution rate according to a map of fuel vs. load.

The Bi-Fuel® System utilizes a state-of-the-art electronic control and monitoring system which monitors critical engine and Bi-Fuel® System parameters and activates or deactivates gas mode according to programmed limits. When a monitored parameter exceeds the allowable limit, the controller switches the engine to 100% diesel mode and electronically logs the fault for diagnostic purposes. The control panel is housed in a NEMA rated weatherproof enclosure and is approved for Class I, Division 2 environments.

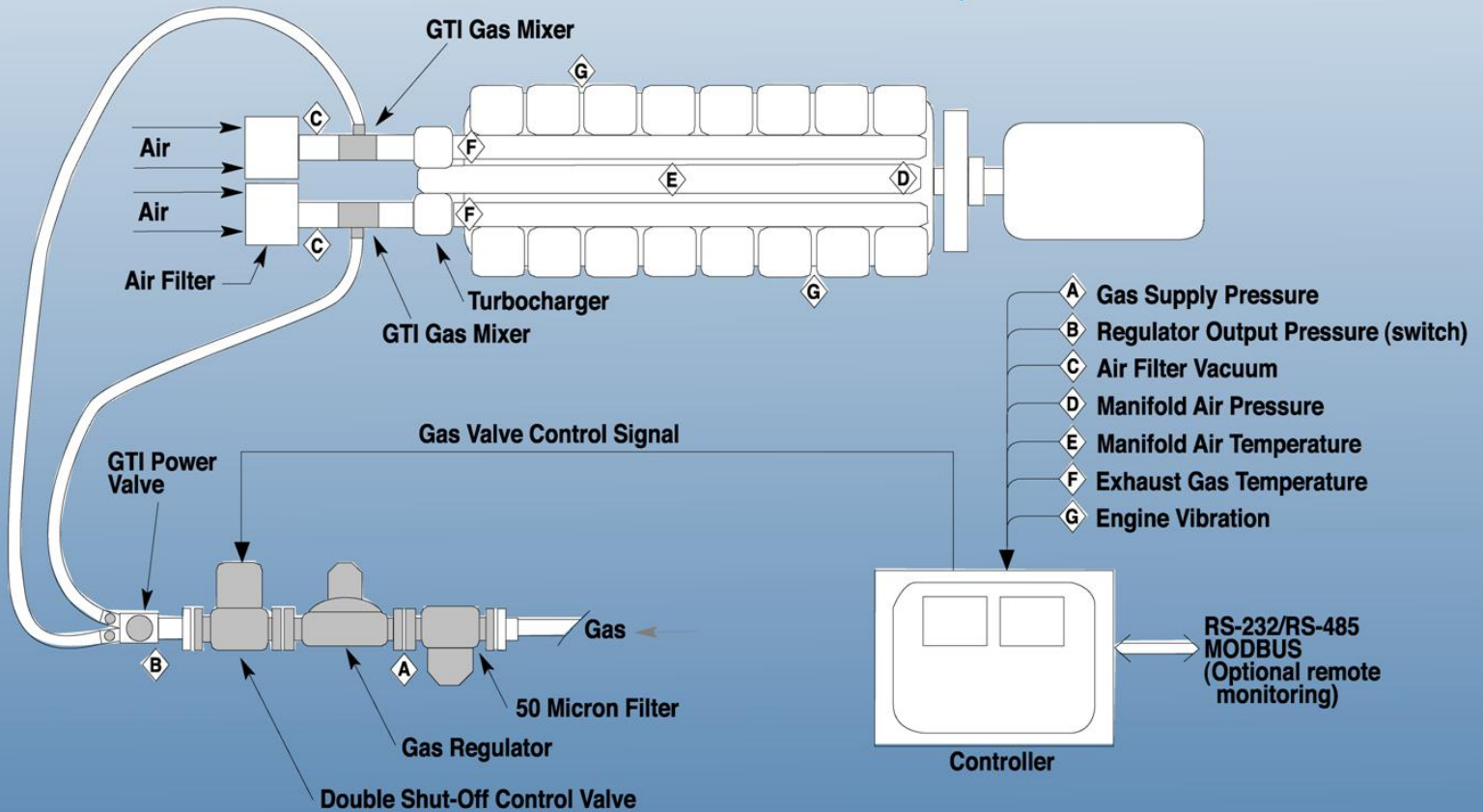
\*Subject to gas quality and other application conditions.



**GTI Bi-Fuel System**

- Converts industrial diesel engines to Bi-Fuel operation by substituting up to 70% natural gas for diesel fuel
- Save on operating fuel costs by using natural gas with return to 100% diesel operation at any time
- Allows the use of available or interruptible gas supplies
- No modification to internal engine components is required
- Cleaner burning natural gas reduces exhaust emissions
- Reduces requirements for on-site fuel storage
- Unique, patented design ensures no loss of power or efficiency
- Low cost and easy to install

# The GTI Bi-Fuel System



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