

FLSmidth

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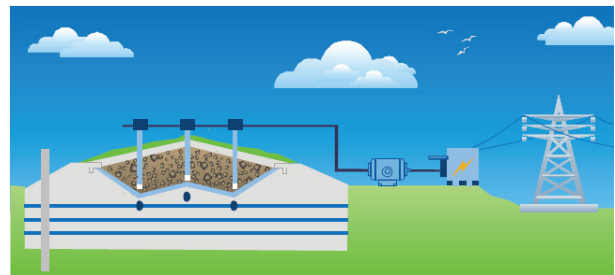
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***Ful-Vane™* Gas Compressor Application Sheet Landfill Gas Compression**

With an ever increasing demand for energy and a concurrent demand for cleaner and “greener” energy sources, interest continues to grow in the capture and use of natural gas from a variety of sources. One such source for gas is our world’s landfills. Beginning in 2006, landfills became the second largest man-made source of methane gas, accounting for more than 22% of the total. A byproduct of decomposition, landfill gas (LFG) is typically ~50% methane, ~50% carbon dioxide, and <1% non-methane organic compounds (NMOCs). In today’s world, this energy source cannot simply be ignored or emitted to atmosphere and so projects are now being undertaken to capture and utilize the LFG. Many landfills currently gather the LFG and simply flare (or burn) the gas immediately in order to maintain the proper operation of the landfill, however, even at 50% purity, this methane is a valuable commodity for providing alternative fuel for power generation. It is also being used in some areas as supplemental fuel for other processes such as cement kilns. If the supply is sufficient and other site specific conditions are suitable, many landfills are undertaking projects to use this gas as fuel for combustion engine generators, micro turbines and gas turbines to generate electricity.

FLSmidth’s *Ful-Vane™* Gas Compressor is well suited for LFG applications including both generation and flare systems as well as those systems requiring a suction pressure greater than atmospheric pressure (-15” Hg to - 29” Hg vacuum) and discharge pressures of 15 psig to 150 psig. Variants of these pressures can be evaluated on an individual application basis. In addition, gas flows of 50 MSCFD to 4.3 MMSCFD are achievable with a single compressor depending upon operating pressures.



For more information on *Ful-Vane™* LFG Compressor Packages, contact us today.

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