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Green Energy Solutions

PRESS RELEASE

VOCSIBOX CHALLENGES THE FASHION FOR FLARES

With the continual drive towards ever tighter emission and landfill gas management standards, Haase Energietechnik in Germany has developed VocsiBox ®, a new practical and cost-effective method of safely dealing with the disposal of low calorific value gases, and now available in the UK through exclusive distributors, Clarke Energy.

The VocsiBox successfully combines the advantages offered by traditional biofilter and flare stack systems, but with far greater efficiency and at significantly lower cost. Supplied in a standard ISO container designed on a Plug and Play philosophy, the system works by oxidizing all volatile organic compounds (VOC) present in the gas stream. When compared with a high temperature flare, the VocsiBox achieves the same degree of efficiency in oxidation of VOC, however the VocsiBox achieves this standard with input gases which have methane contents as low as 0.3% v/v.

The process of oxidizing VOC is an exothermic process, which overall results in the release of energy. As the VOC content in the input gas stream to the VocsiBox is oxidized, the energy released is transferred to the ceramic bed, this process both cools the gas and heats the ceramic bed. It is important to note that the ceramic bed does not act as a catalyst nor does it take part in the chemical reaction of oxidizing the VOCs. The hot ceramic bed then transfers the heat to the input gas and raises the gas temperature to its reaction temperature, at which point the VOCs in the gas stream react with atmospheric oxygen.

Due to the fact that very little energy is lost from the process, (outlet gas temperature is only slightly higher than input gas temperature and minimal heat loss through radiation), very little energy is required to sustain the reaction process. Hence this regenerative combustion process requires only an input gas stream with a methane content of 0.3% v/v without auxiliary gases to operate autothermally.

As well as providing a very good environmental performance, another benefit is that because the unit is non-selective about the type of VOC it can oxidize there are a whole range of other situations where it can be used to reduce emissions, for example odorous exhaust air from compost treatment plants. In addition, as a result of the high temperatures in the unit, the VocsiBox can be used in situations where the destruction of pathogens and other germs is necessary.

Haase Energietechnik is one of the leading manufacturers of a range of gas engineering systems including flares and gas booster units. Clarke Energy has exclusive distributorship in the UK for all Haase equipment and will now be responsible for marketing the VocsiBox in this country.

Note:-

Clarke Energy Limited is a leading worldwide Energy Systems Company offering a wide range of green power generation solutions with offices in Australia, France, India, Nigeria, New Zealand and UK. Clarke Energy employs over 150 people worldwide and operates as part of the Clarke Group.

Further information about Clarke Energy and its activities is available by contacting the Public Relations and Marketing Department on 0151 546 4446 or via email at: pr@clarke-energy.co.uk