Turning waste heat

Bowman Exhaust Gas Heat Exchangers

Recovering valuable heat energy from the exhaust stream of engine powered Combined Heat & Power (CHP) systems

An exhaust gas heat exchanger (EGHE) is an extremely effective way of recovering valuable waste heat energy from an engine powered generating set.

By recovering waste heat from the engine's exhaust stream, the overall efficiency of a gen-set can be increased from approximately 30% (power only), to around 60% (with EGHE only) and up to 80% + when heat is recovered from other areas of the engine!

As the UK's leading manufacturer of exhaust gas heat exchangers, Bowman offer a comprehensive range of highly efficient units, suitable for applications up to 1MW, for engines using Biogas, Diesel or Natural Gas.

Bowman EGHE's are designed for a wide range of commercial or industrial applications, including district heating and hot water, space heating, thermal oil heating, generating electricity through ORC or Stirling engine technology, or running a chiller for cooling.

Extensively proven in some of the most challenging installations on earth, Bowman exhaust gas heat exchangers are high quality units that combine high levels of heat recovery, with long life durability.

Shell and tube design
All Bowman units are based on the company's renowned shell and tube heat exchanger design, which combines excellent heat transfer performance with ease of installation and simple maintenance.

All stainless steel construction
The fully welded, all stainless steel construction of Bowman's EGHEs, ensures maximum reliability and durability of the unit when handling extreme exhaust gas temperatures.

Automated tube welding
Automated tube end welding and 100% inspection, ensures the highest quality and structural integrity of the tube core for maximum reliability.

Installation options
Bowman offer three ranges of exhaust gas heat exchangers: (i) without end covers, for direct connection into customer's pipework, (ii) straight end covers and (iii) 90º (right angle) end covers.