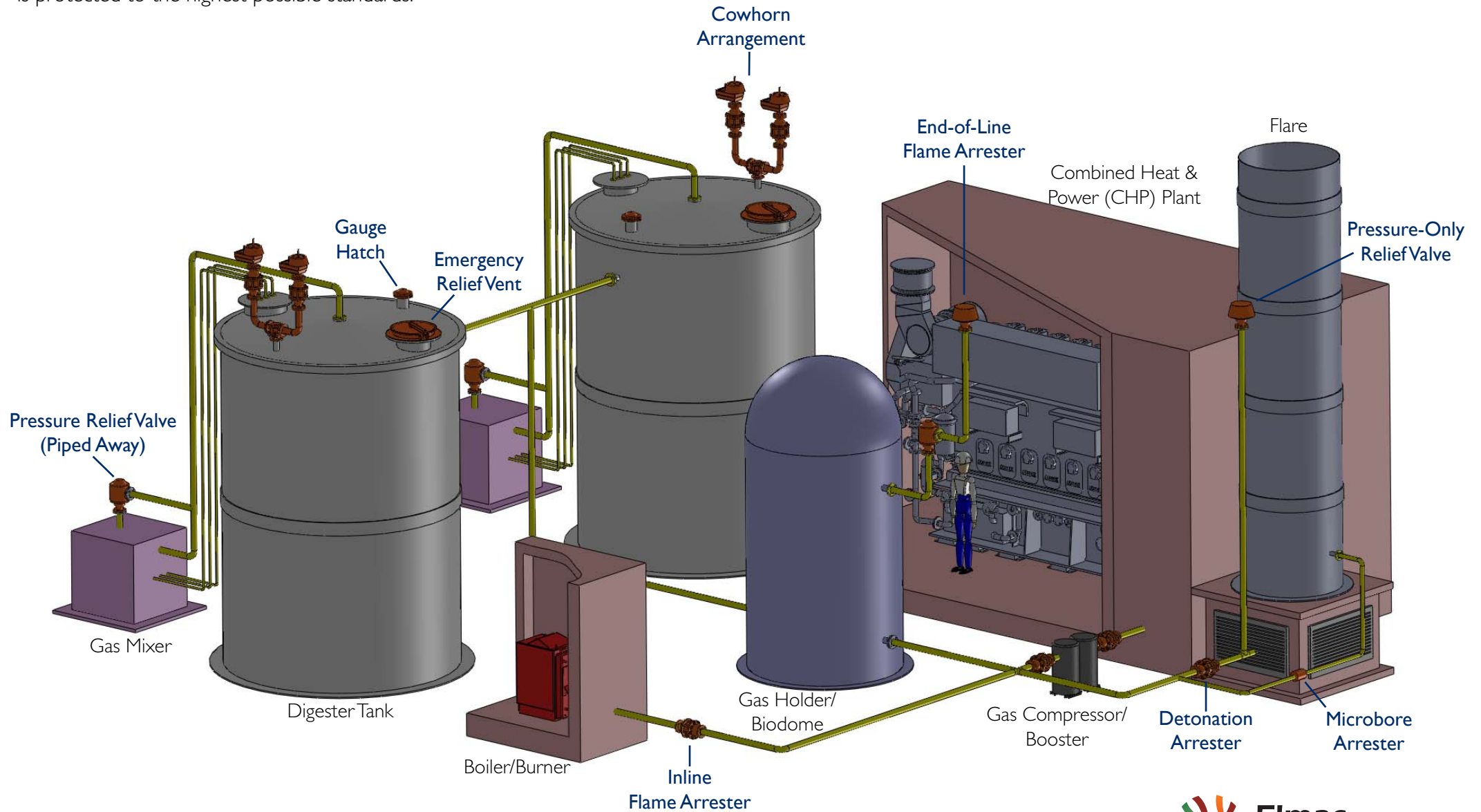


Anaerobic Digestion/Biogas Plant Safety Equipment

Elmac Technologies® has a range of explosion protection and low pressure venting equipment available to ensure your anaerobic digestion/biogas plant is protected to the highest possible standards.



Anaerobic Digestion/Biogas Plant Safety Equipment

Cowhorn Arrangement



The 'Cowhorn Arrangement' of selector valve and twin sets of pressure relief valves and/or flame arresters, is intended for use on digesters where overpressure and explosion protection is required. By utilising a selector valve, one set of arrester and valve combination can be maintained whilst the other is in service.

Emergency Relief Vents



Non-sparking emergency relief vents permit access to low pressure storage tanks and provide emergency venting capacity in the event of fire. They are used extensively on bulk storage tanks, including floating roof tanks, low pressure gas pipeline systems, digesters, and gas holders.

Customer Support

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All specifications are correct at time of print, are for guidance purposes only and subject to change without prior notice.

End of Line Flame Arresters



End-of-line deflagration arresters are designed to be installed at the end of a pipeline or exit vent from a vessel, where the ignition source is external, to provide protection against atmospheric deflagration.

Inline Flame Arresters



Inline deflagration arresters are designed to prevent propagation of flames in gas or vapour mixtures in a pipeline. Inline flame arresters must be placed close to the potential source of ignition.

Detonation Arresters



Inline unstable detonation arresters are designed to prevent propagation of detonations in gas or vapour mixtures. Detonation arresters are specifically designed for pipelines with a significant distance between the ignition source and the arrester, or for use where the pipe is rough, bent, obstructed or has section changes.

Microbore Arresters



Microbore arresters are specially designed for the protection of gas sampling and analysis equipment where flammable vapours are present. Many other applications involving small bore pipework can be protected from explosion risk using microbore arresters.

Pressure/Vacuum Relief Valves

Direct acting pressure / vacuum relief valves, or breather valves are special types of relief valves which are specifically designed for tank protection. The range includes pressure only, vacuum only and combined pressure / vacuum valves, all available with flanged outlets or vented to atmosphere.



Pressure / Vacuum Relief to Atmosphere



Pressure-Only Relief to Atmosphere



Spring-Loaded Pressure Relief to Closed Line

Gauge Hatches



Gauge hatches allow easy access to bulk liquid storage tanks for manual level measurement and sampling. Lockable versions are available.