

Product Data Sheet

Part number:- BGAK Vent Air Burner (VAB)

The Vent Air Burner (VAB) has been developed specifically to be used with the BGAK range of automatic Siloxane Removal Systems for sites that may be in sensitive locations, or where complete emission control is vital.

Product features

- Small footprint
- Fully enclosed compliant flare
- Eliminates Odours/ and Decomposes VOCs
- High temp operation (~ 1000 Deg C)
- Utilises BioGas to fire Main burner / pilot
- Low ongoing running costs
- Fully integrated into PpTek control system
- Totally automatic control.
- Low maintenance requirement
- Known BAT for compliance and EA approval
- Can be sited close to filter system.
- Easily erected with sectional construction



VAB installed near Doncaster, UK

Product description

The VAB is a fully integrated option for any of the PpTek BGAK filter range. Manufactured in 5 sections and standing 6m high it is made from hot dipped galvanised mild steel (base section) and stainless steel (above burners). Being totally enclosed and insulated it is fully compliant with current regulations, with low fuel consumption staying below the site monitoring limits.

The VAB is fed regeneration air directly from the filter and requires a small main BioGas boosted site supply. The pilot light is auto lit from the PpTek filter system with the main burners being regulated to ~ 1000 °C via an industry standard modulating controller. Start up and shut down are controlled via the PpTek unit with temperature, flow and flame lit sensors providing safety controls.

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Equipment	Stand Alone High Temperature Enclosed Filter Vent Air Burner
Use environment	Site in open air with restricted access and supervised by trained personnel.
Hazardous area classification in compliance with ATEX requirements.	Zone 2 in sphere 200 mm radius around all positive gas pipe connections and 100 mm radius around all negative pressure gas pipe connections
Maximum design emissions Normalised at 0°C, 101.3 k Pa and 3% O₂:	Carbon monoxide (CO) : 50 mg Nm ⁻³ Oxides of nitrogen (NO _x) : 150 mg Nm ⁻³ Total volatile organic carbon as carbon : 10 mg Nm ⁻³ Non-methane volatile organic carbon : 5 mg Nm ⁻³
Operation	Automatic intermittent use
Gas quality	Methane 40 – 70 %
Design Flow	Up to 1200 Nm ³ /hr of Siloxane Vent Air
Turn down	5:1
Combustion temperature	1000°C
Minimum retention time	> 0.3 seconds
Control system	PpTek standard
Dimensions	L x W x H : 240cm x 200cm x 600cm



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