

BioGas MK

Gas Flows	PpTek Part #	Product Features
>350 m ³ / hr	BGMKC 300	Manual on site regeneration
>150 m ³ / hr	BGMKC 150	Manual on site regeneration
> 50 m ³ / hr	BGMKC 50	Manual on site regeneration

A BGMK 300 filter fitted to a WwTW

Product features

- low capital cost
- small size
- minimum maintenance
- can be used under pressure or suction
- onsite or offsite regeneration
- guaranteed media life of 7 years
- filter cassette regeneration ~ 3 month
- stainless steel construction
- Atex approved CE compliant (Zone 1)
- no engine warranty issues
- environmentally safe
- no filter medium disposal cost



Product description

The BioGas MKC is a Bio-Chemical filtering system that is fitted in the fuel supply line of a BioGas to Energy plant decontaminating landfill and sewage gas of siloxanes and other VOC's.

Fitted in the main BioGas supply it can also be used to protect boilers used to heat water on Water Treatment sites.

Using the same PpTek patented media material as the Auto Kleen (AK) the unit is fitted with sufficient media to last ~ 3months without the need for regeneration. The media cassettes are regenerated by PpTek either on site or simplifying and lowering the cost of the unit.

The unit is designed to operate outside on site, owing to its robust construction, and having no moving parts, is virtually maintenance free other than 3 monthly regeneration.

BioGas MKC

Product characteristics

1 Physical properties

- 1.0 Size:- 50 - 1.3m H x 0.8m D
150 - 1.1m H x 1.4m D
300 - 1.1m H x 2.0m D

1.1 Weight :- 50 – 250 Kg

150 – 400 Kg

300 – 650 Kg

1.2 Material:- Stainless steel 316

1.3 Connections

50 - 4" PN16 flanges

150 – 6" PN 16 flanges

300 – 6" PN 16 flanges

2 Gas purification & regenerative capacity

2.0 Max - 70 m3/ hr (50)

180 m3/hr.(150)

350m3/hr (300)

2.1 Manual ~ 3 months onsite or offsite.

3 Gas input requirements

3.1 Gas flow Min 30 m3 /hr

3.2 Gas flow Max

BGMKC 50 – 70 m3 / hr

BGMKC 150 – 180 m3 / hr

BGMKC 300 – 350 m3 / hr

4 Gas pressure drop

4.1 Max pressure drop over filter unit <10mb

5 Safety controls fitted

5.1 Over temperature of regeneration process

6 On site requirements

6.1 Level concrete plinth 1.0m x 2.6m 0.1 m deep .

The min distance from the engine supply inlet is 0.5m

Min distance from the gas supply after the particle scrub filter is 1m

6.2 Supply pipe diameter of 100mm / 150mm

6.3 Feed pipe to engine diameter of 100m / 150mm

6 Total power requirements

6.1 Average consumption of 20 kW for 5 hours / 3 months during regeneration.



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