

Case Study

Atex Positive Displacement Blower



PROSERPOL

France

March 2011

Four Hibon® Positive displacement blower ATEX BSF2_11 biogas units are used in Ethiopia for biomass recovery by anaerobic digestion.

Customer Overview

PROSERPOL's expertise covers the design, installation and commissioning of effluent treatment plants, recycling technologies, material and heat recovery systems.

Challenge

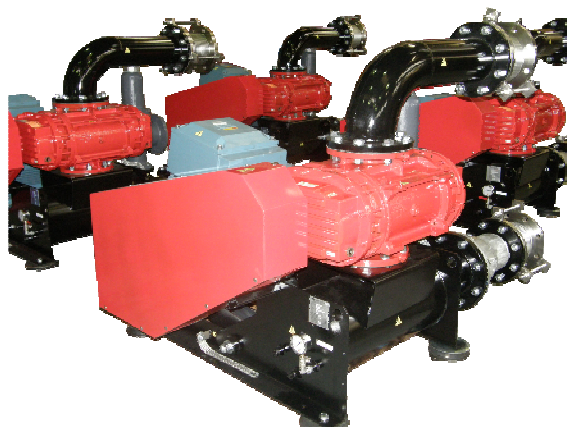
Anaerobic Digestion (AD) or fermentation is a process whereby organic waste, (such as biomass, liquid manure, sewage, municipal waste, green waste, outflows of industrial food-processing or those of the paper pulp), is broken down in a controlled, oxygen free environment by bacteria naturally occurring in the waste material. Methane rich biogas is produced thus facilitating renewable energy generation.

Biogas positive displacement blowers are used in digesters agitation or in biogas transfer supplying distillers, boilers, heat engines, generators, or cogeneration systems...

Solution

We provided ATEX Group 2 category 3 suitable for potentially explosive internal gaseous atmospheres T4 135°C Internal compliant positive displacement blowers SNS 811 in package type Silentflow.

Hibon® SNS Blower is specifically suited for biogas application.



Detail

Blower type: SNS 811

Gases: Biogas (64% CH₄, 35% CO₂, 1% H₂S)

Inlet Pressure: 881 mbar

Outlet Pressure: 1281 mbar

Differential pressure: 400 mbar

Flow: 713-1425 Nm³/h

Blower speed with speed variation: 1431 –2477 RPM

Absorbed Power: 11,6-20,4 kW

PO125484



Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems and environmentally friendly micro turbines. We also enhance productivity through solutions created by Club-Car® the global leader in golf and utility vehicles for businesses and individuals.