

ATEX Air Handling Units specified for Nigerian Platform



Fläkt Woods has won an order to supply 26 ATEX certified EU air handling units for a new floating production storage and offloading facility (FPSO), being used on the Akpo Oil & Gas project off the coast of Nigeria for Totaloil. The Units come from the Company's EUMM range, a modern and highly specified collection designed for customers with high demand on quality, safety and energy efficiency.

■ FACTS

Customer:
Totaloil

Need:
Energy efficient ventilation solution that meet ATEX requirements in order to ensure efficient and safe operation in hazardous environments.

Solution:
Fläkt Woods' ATEX certified EUMM air handling units for Oil & Gas applications.

FläktWoods

Quality solutions for hazardous Oil & Gas environments

To avoid risk to human life in hazardous areas, Fläkt Woods has developed a range of air handling units meeting the strict requirements of the ATEX directive. This involves making a risk assessment of all possible ignition sources and finding solutions to mitigate the risks.

Fläkt Woods will supply 26 ATEX certified EUMM air handling units to the Akpo Oil & Gas project.

EUMM is specially made for Oil & Gas environments. A modular system, it offers flexibility of function, size and process and features 50 mm thick double skin, flush-fitting stainless steel panels, corrosion resistant components and non-hygroscopic, rigid sheet, mineral wool insulation, optimised for thermal and acoustic requirements.

Fläkt Woods has modified the range for ATEX certification in a number of ways, including changes to the motors and spark minimisation features, modifying material thickness, conduit systems, as well as adapting and revising product guides and operation manuals.

The FPSO, currently under construction in South Korea, is 310 meters long and 61 meters wide. Operational in late 2008 and operated by Total Upstream Nigeria Ltd, it will be sited in water depths ranging from 1,100 to 1,700 metres. It will include a 240 bed-accommodation unit where the AHU's will provide general ventilation and climate control, as well as providing air movement in the operations unit.



Computer-aided selection using a program based on a series of highly complex algorithms allows Fläkt Woods to optimise selection and ensure that the units offered conforms exactly to the customer's requirements.

The Akpo field development plan calls for 22 producing wells, 20 water injection wells, and two gas injection wells, which will be connected to the FPSO. Hyundai Heavy Industries is building the FPSO's hull and topsides. Engineering and fabrication of various components and structures will be made in Nigeria. It will process and store oil for delivery to tankers or via pipelines to refineries. The hull will have a storage capacity of two million barrels of oil, and will produce 225,000 barrels of oil per day.



Air handling units

Fläkt Woods EUMM air handling units offer a complete range for all Oil & Gas ventilation needs.

EUMM units are modern, high specification air handling units with all of the functional sections needed to meet any air handling requirement. The frame members and solid corner pieces form a sturdy framework.

Fläkt Woods Group

Fläkt Woods is a global company providing solutions for ventilation and air treatment for buildings as well as fan solutions for Industry and Infrastructure applications.

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The logo for Fläkt Woods, featuring the company name in a bold, green, sans-serif font. A stylized green leaf-like graphic element is positioned above the 't' in 'Woods'.