

WEG EFF-1 SMOKE EXTRACTION MOTORS CHOSEN BY FLAKT WOODS FOR PRESTIGIOUS \$1BILLION SAO PAULO METRO LINE 4 PROJECT

The Fläkt Woods Group is using WEG premium efficiency smoke extraction motors on the ranges of ventilation fans it is supplying as part of a US \$1billion project to construct a new underground line (Line 4) for the Sao Paulo Metro in Brazil. Scheduled to open in 2010, the new line will serve 17m people in what is the largest city in South America. It will be 12.8km long, have eleven stations along its length, and be able to transport almost one- million passengers per day.

The project to construct Line 4 is just one part of a \$5billion programme on the Sao Paulo Metro. The complete programme includes the building of two new suburban Metro lines, and the extension and modernisation of another three. The overall objective is to improve the quality and long-term sustainability of urban transport in the Sao Paulo Metropolitan Region (SPMR). In the case of Line 4, this is being achieved by interconnecting the existing subway, commuter rail, and bus networks, under a Built Operate Transfer (BOT) type scheme, partially financed by the private sector.

"There are seven phases to the Sao Paulo Metro project, and we are hoping to secure all seven," said Frank Walsh, Operations Director of Flakt Woods. "The value of taking on the whole project would be £2m to Flakt Woods."

The equipment supplied by Flakt Woods is the company's market-leading ranges of JM Aerofoil and JM-TS ventilation fans. These are used to provide general ventilation and extraction in the tunnels and at stations along the Line 4 route. The fans also provide for emergencies in the underground Metro, being designed to operate at 2500C for 2 hours. They are all driven by Premium Efficiency motors from WEG's Smoke Extraction range of products. These motors are well proven, being installed in some of the highest profile projects in the world: the Sydney Cross City Tunnel and the Al Jamarat road and passenger bridge in Mina, Saudi Arabia, to name but two.

The smoke extraction motors perform a dual function. In normal daily operation they deliver the highest levels of energy efficiency driving the Flakt Wood's ventilation fans. This ensures the highest levels of energy saving, cutting costs substantially for the operator of the Sao Paulo Metro. These cost savings enable the motors to quickly repay their original capital cost, with subsequent savings helping to reduce everyday operating costs on the Metro.

The second – and most important – function of the motors is to help in the safeguarding of Metro passengers and personnel. In the event of a fire emergency in the Metro, the package of the JM and JM-TS fans and the smoke extraction motors is designed to improve the conditions for safe escape, and/or the rescue of trapped personnel, by drawing any smoke resulting from the fire above floor level. At the same time, the system is actively exhausting hot gases resulting from the developing fire, and providing an envelope of opportunity for emergency services to access the affected area.

The complete smoke extraction system, comprising WEG motors and Flakt Woods' fans, is certified to EN 12101-3 (Smoke and Heat Control Systems – Part 3: Specification for powered smoke and heat exhaust ventilators). The motors themselves are designed to withstand temperatures of 400oC for 2- hours in their ultimate F400 classification; they are used in ventilation systems all over the world: in tunnels, mines, buildings, shopping malls, enclosed car parks, warehouses, stairways and theatres.

"We are delighted that our motors have been specified by Flakt Woods on such a prestigious project," said Marek Lukaszczyk, European Marketing Manager for WEG, "WEG is very much in the vanguard of companies providing improved safety through our smoke extraction motors; now we have complemented this technology with the highest levels of energy efficiency available, offering an enhanced package that is ensuring the specification of our motors in major projects worldwide."

FLAKT WOODS Ltd

Fläkt Woods is a leading global supplier of energy-efficient air solutions operating in both the air climate for buildings and air movement for the infrastructure and industry markets.

For Buildings, the Group provides energy-efficient indoor air climate products and solutions to supply people with clean, comfortable and fresh air. For Infrastructure and Industry, the Group provides air movement products and services including fans for cooling systems, and also for increasing the efficiency, environmental performance and safe operation of equipment and processes. Company enquiries: James Griffiths Tel + 44 (0) 1206 222 699.

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