

THE ECONOMIST BUILDING ACHIEVES 66% ENERGY SAVINGS

MAGNETEK QUATTRO® AC ELEVATOR DRIVE



PROJECT The Economist Building, London

CONTRACTOR Jackson Lifts Ltd.

CONSULTANT JB Lift Consultants Ltd.

OEM Thames Valley Controls Ltd.

PRODUCTS Quattro AC Lift Drives

ENERGY SAVINGS CALCULATOR RIGHT ON THE MONEY!

Magnetek's Energy Savings Calculator was used to estimate the energy savings the customer could achieve by installing Quattro AC.

The projected savings were 99% accurate when compared to actual measured results.

Quattro DC is just one of Magnetek's energy efficient elevator drives. Please contact us for more details.

Challenge

- The existing DC Motor Generator controlled systems installed in the lift motors in London's The Economist Building were inefficient, consuming 66kWh/day per lift.
- An increasing number of breakdowns resulted in a higher level of maintenance support needed to keep the unreliable system operational. Also, sourcing replacement parts was an issue.

Solution

- Three 85A Quattro AC Elevator Drives configured in permanent magnet motor control operating mode were installed.

Results

- Installing Quattro AC Elevator Drives resulted in energy savings of 66% when compared to the previous DC Motor Generator solution.
- Power usage measured by Jackson Lifts was reduced from 66kWh/day with the previous DC Motor Generator Control to 23kWh/day with Quattro AC.
- Projected energy savings is £1100 per annum per lift.
- The maintenance support required was reduced.
- Elimination of generator decreased noise and resulted in a cleaner system.
- The new solution ensured less heat and more floor space in the machine room.
- Lift speed increased from 2.5 to 3.5m/second.

Estimate your savings with Magnetek's lift-specific solutions at www.elevatordrives.com/Cal/.