

APOLLO HOUSE SAVES ENERGY AND MONEY ON MODERNISATION

MAGNETEK QUATTRO® DC ELEVATOR DRIVE



PROJECT **Apollo House, Croydon**

CONTRACTOR **Liftec Lifts, Ltd.**

CONSULTANT **Elevate Consulting Ltd.**

OEM **Lester Controls Ltd.**

PRODUCTS **Quattro DC 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 DC.

Quattro DC provides energy savings you can count on.

To estimate your savings with Magnetek's lift-specific solutions visit elevator drives.com/Cal/.

Challenge

- Existing 3m/s DC-SCR installation employed on six lifts in London's Apollo House required ever increasing maintenance to sustain system operation.
- Sourcing spare parts for this aging installation was becoming difficult.
- The system was not energy efficient.

Solution

- Modernize six lifts with six 150A Quattro DC Elevator Drives used to operate existing DC motors.
- Quattro DC Elevator Drives replaced the existing isolation transformers, ripple filters and all large core interconnecting wiring required for the DC-SCR solution.

Results

- Installing Quattro resulted in estimated energy savings of approximately 25% when compared to the previous DC-SCR solution which was already using regenerative technology.
- Power factor, harmonic distortion and peak currents were all significantly improved.
- The new solution ensured less heating and more floor space in the machine room.
- Installation was simplified because no isolation transformer or ripple filter was required and there was less on-site wiring.
- The introduction of the Lester Controls' serial 'Direct-to-Floor' controller software resulted in a significantly reduced floor-to-floor travel time when compared to the old system.
- Smoother acceleration and deceleration resulted in improved ride quality.
- Quattro DC Drives are designed so they can be converted for use with AC motors. This allows the property owner to modernise with these energy efficient DC drives now without changing the motors, but allows the flexibility to convert to AC motors in the future.



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