

HIGH-RISE CONDOMINIUM ELEVATOR MODERNIZATION

MAGNETEK QUATTRO® AC CUBE PM ELEVATOR DRIVES



PROJECT 1000 Williams Island and Parker Plaza
Ft. Lauderdale, Florida

CONTRACTOR Premier Elevator Company, Inc.

CONTROLLER GALaxy IV by G.A.L.
Manufacturing Corp.

PRODUCT Quattro AC Cube PM Elevator Drives

Challenge

- Modernize twelve elevator systems in two buildings
- Fulfill request for high profile, high-rise condominium facilities
- Utilize new PM 1:1 roped motor system

Solution

- Magnetek provided gearless Quattro AC Cube PM Elevator Drives
- Increased elevator cars' travel rate to 500 feet per minute with gearless PM motors
- Obtained smooth system operation

Hotels, office space, apartments, and a brand new county courthouse are all recent additions to the ever-changing Fort Lauderdale skyline. In the past several years, a flurry of construction activity has contributed to buildings that feature contemporary designs, modern mechanical systems, and "green" technology for efficient energy use. Installing similar updates has also been a priority for existing facilities to substantially improve functionality, comfort, and energy savings.

Two such buildings, high-rise condominiums in Fort Lauderdale, were looking to modernize their facilities. Introduced in 1990, 1000 Williams Island houses the most residents in Williams Island with 321 condominium units, while the 27-floor oceanfront Parker Plaza in Hallandale Beach features 520 condominium units.

Each building had six elevators in need of modernization. Existing DC elevator drives were replaced with six Magnetek Quattro AC Cube PM (permanent magnet) drives in each building. Paired with GAL controllers, Magnetek's Quattro AC Cube PM elevator drives provide exceptional ride quality.

In both buildings, the drives perform flawlessly with superior ride performance. At 1000 Williams Island, the newly installed Quattro AC Cube PM systems now enable travel at an impressive 500 feet per minute, increasing from the previous elevators' rate of 400 feet per minute.



Quattro AC Cube PM drives are the latest evolution in Magnetek's line of technologically advanced, green elevator drives that offer clean harmonics, lower installation costs, and superior ride quality. The elevator drives' precise, accurate control provides smooth acceleration and deceleration, resulting in significantly improved performance. All drive components, regen, contactors, and fusing are integrated into this space saving package, eliminating the need for multiple external modules and costs for panel mounting and component wiring.

With nearly 40 years of innovation and more than 90,000 elevator drives installed across six continents, Magnetek is uniquely qualified to provide expertise regarding modernization solutions.

"Quattro AC Cube PM drives run better and faster than previously installed drives, providing improved ride quality for tenants," said Jae Evans of Premier Elevator. "The drives were easy to install and we received outstanding support from Magnetek."



www.elevatordrives.com

Magnetek Elevator (US)
N50 W13605 Overview Drive
Menomonee Falls, WI 53051
p 262.252.6999
f 262.790.4142
info@elevatordrives.com

Magnetek Ltd. (UK)
Unit 3, Bedford Business Centre
Mile Road
Bedford MK42 9TW
p +44 (0) 1234 349191
f +44 (0) 1234 268955
eurosales@magnetek.com

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