

Compact actuators for district cooling plant

Palm Jumeirah, Dubai, United Arab Emirates

AR21001 | AUMA APPLICATION REPORT



WATER

APPLICATION

District cooling

AUMA SOLUTION

- > Retrofit | Replacement
- > PROFOX PF-Q80
- > PROFOX PF-Q300
- > Project management & on-site service

CUSTOMER BENEFITS

- > High reliability thanks to precise and high-quality mechanics
- > Compact design
- > Low weight
- > Convenient operation and diagnostics via AUMA Assistant App
- > Single-source project management

196 compact and smart PROFOX actuators have replaced old, error-prone pneumatic actuators in the district cooling plant in Palm Jumeirah. AUMA took care of the entire retrofit project management.

REPLACEMENT OF PNEUMATIC ACTUATORS

EMPOWER, the leading district cooling provider in the United Arab Emirates, had continuous problems and failures with the pneumatic actuators used previously in its district cooling plant in Palm Jumeirah. Automated operation and the required continuous cooling service were frequently disrupted.

As the chilled water is conducted through relatively small pipelines with small valves, Empower was looking for actuators that are not only reliable, but also compact and lightweight.

COMPACT AND SMART PROFOX ACTUATORS

A combination of precise and high-quality mechanics with an innovative operation concept made AUMA PROFOX actuators the ideal solution for the customer.

The integrated Bluetooth functionality perfectly complements the compact design and enables decentralised operation and diagnosis of the actuators using the AUMA Assistant App, conveniently via smartphone/tablet. All configuration parameters can be read out and changed via the app. In addition, diagnostic information and operating data from the actuator can be read out and displayed. This way, continuous operation can be guaranteed.

The AUMA team took care of the entire project management of this retrofit. Since the replacement, the new PROFOX actuators have been operating reliably, to the full satisfaction of the customer.

Project responsibility:
AUMA Middle East, Dubai

www.auma.com

The EMPOWER district cooling plant (left-hand side) provides district cooling services to Palm Jumeirah, a group of artificial islands in Dubai (visible in the background).

