



Contemporary Museum, Dubai, United Arab Emirates

Forward-Looking Museum Chooses Innovative Rain Bird® System for Efficient Irrigation

An immersive science and technology museum in the heart of Dubai has been dubbed “the most beautiful building on Earth” by UAE leader, Sheikh Mohammed bin Rashid Al Maktoum. The remarkable structure is enhanced by lush green landscaping around the entire exterior.

THE CHALLENGE

In Dubai, maintaining greenery is difficult. Temperatures in the desert climate can reach up to 50 degrees Celsius and the only water available for irrigation is reclaimed sewage water. Topography around the museum presents an additional irrigation challenge: the majority of the landscaped area is significantly sloped, with as much as 50 to 80 meters difference between elevations.

THE SOLUTION:

There is only one available solution in the industry for watering such dramatic slopes: Rain Bird’s dripline system with check valves. A combination of this innovative technology with top-of-the-line components like a central control system and weather station will provide efficient irrigation using the site’s reclaimed water.



XFS-CV Dripline With Copper Shield™
Technology and Heavy-Duty Check Valve

Core Products Used:

- [XFD On-Surface Dripline](#)
- [XFS-CV Dripline With Copper Shield™ Technology and Heavy-Duty Check Valve](#)
- [PESB-R Series Valves](#)
- [WS-PRO2 Weather Station](#)
- [Site Control](#)
- [ESP-SAT Series Satellite Controller](#)
- [RD04-SAM-PRS-45 Spray Heads](#)

KEY OBJECTIVES

- ✓ Irrigate steep slopes
- ✓ Make efficient use of reclaimed water
- ✓ Maintain greenery in desert climate
- ✓ Use best components available



APPROACH:

Find a Sufficient Solution for Slopes

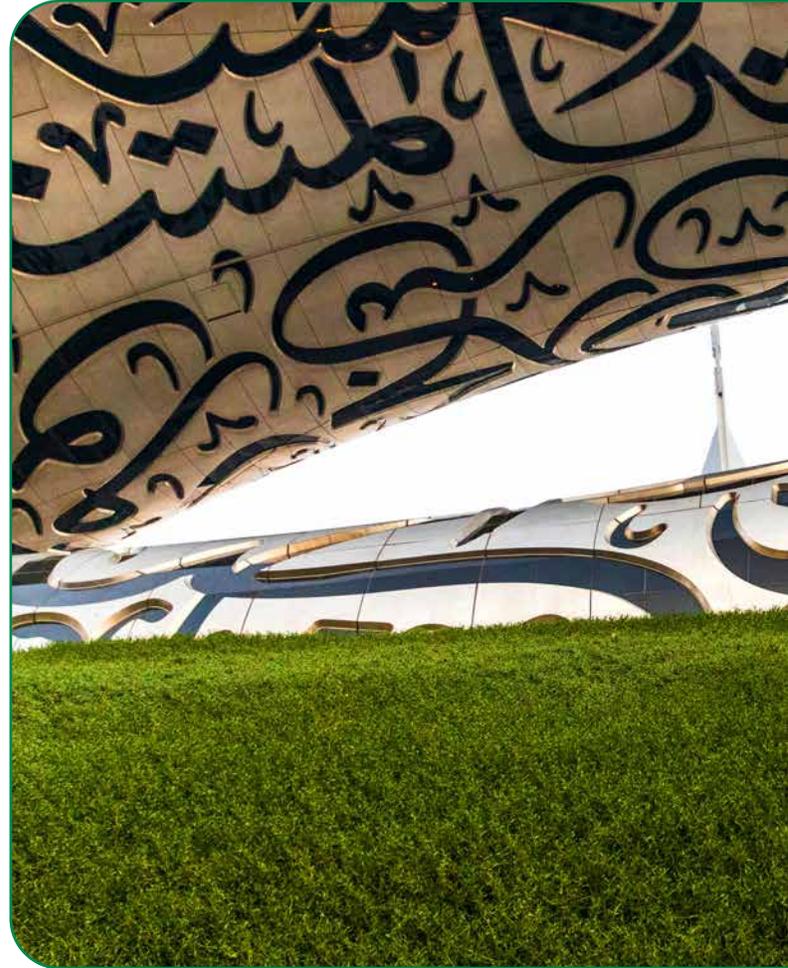
Rain Bird's **XFS-CV Dripline** with check valves will be up to the task of irrigating the museum's tricky slopes. This technology will keep the dripline charged with 10 feet (3 meters) of holdback—the highest in the industry—and will provide effective root intrusion protection thanks to Copper Shield™ technology. It will also deliver excellent uniformity while preventing overwatering, low-point drainage issues, and puddling. Flatter areas will be irrigated using **XFD On-Surface Dripline**, providing unmatched resistance to chemicals in reclaimed water, plus longer lateral runs than the competition.

Conserve Water

PESB-R Series Valves will also perform well with reclaimed water while offering the best grit tolerance due to their backwash screen filters. Incorporating reliable **RD04-SAM-PRS-45 Spray Heads** will be ideal for the site's varying elevations. Additionally, each of these spray heads will **save up to a gallon of water per minute** due to their pressure-regulating stems (PRS). An industry-leading **WS-PRO2 Weather Station** will add to the system's efficiency, adjusting watering based on local evapotranspiration rates and pausing in the event of rain.

Ensure Hassle-Free Operation

Rain Bird's **SiteControl** central control system will enable museum officials to manage irrigation right from their mobile device or computer. SiteControl will offer superior monitoring and scheduling, including Cycle + Soak™ technology for better control on slopes. For additional support, the Rain Bird team will provide on-site training and ongoing technical assistance.



THE MUSEUM
**SAVES UP TO A
GALLON OF WATER
PER MINUTE**
WITH PRS



RESULTS:

Inspiring a Greener Future

When guests visit the museum, the first thing they see is its impressive green landscaping, efficiently irrigated with reclaimed water. This sets an excellent example of sustainability and water stewardship that should inspire visitors for years to come.