

Deniz Park, Almaty, Kazakhstan

Rain Bird Provides Sustainable Irrigation for Business Center's Beautiful Greenspace

Deniz Park in Kazakhstan's dynamic Almaty district blends work and leisure with a Class A office building surrounded by expansive greenspace. Thanks to the efforts of an international team of architects and consultants, the project demonstrates environmental sustainability while fitting into the city's modern architectural landscape.

The Challenge

Project developers want to use rainwater to keep Deniz Park's grounds green and gorgeous. However, captured rainwater often contains chemicals and particles that can damage irrigation systems and hinder performance. The challenge will be to install an efficient and durable system that can stand up to the recycled water while keeping the landscape healthy.

Key objectives

- ✓ Irrigate with rainwater
- ✓ Enable remote management
- ✓ Demonstrate sustainability
- ✓ Maintain attractive greenspace

The Solution

Fluidra Kazakhstan, one of the project's consultants, will partner with Rain Bird to design and install a functional, effective irrigation system to support Deniz Park's sustainability goals. The team will choose high-quality components that can offer maximum performance despite the harsh water. They will customize a precise system to irrigate the varied areas of the property.



RD1800™ Series
Spray Heads



Products used

- [RD1800™ Series Spray Heads](#)
- [R-VAN Rotary Nozzles](#)
- [XFD On-Surface Dripline](#)
- [PESB Series Valves](#)
- [ESP-Me Series Controller](#)
- [RSD Rain Sensor](#)
- [LCRBY Screen and Disc Filters](#)

Approach

Utilize recycled rainwater

The team has selected durable **RD1800™ Series Spray Heads**, **R-VAN Rotary Nozzles**, and **PESB Series Valves** featuring self-cleaning mechanisms for maximum performance with recycled water. The addition of **LCRBY Screen and Disc Filters** will further protect dripline from damage due to particulates.

Prevent water waste

Built-in check valves within the **RD1800™ Series Spray Heads** will prevent wasteful low-head drainage on the tiered terraces while efficient **XFD On-Surface Dripline** will irrigate the property's flowers, hedges, and shrubs. An **RSD Rain Sensor** will further conserve water by triggering irrigation adjustments based on weather.

Enable convenient management

The **ESP-Me Series** modular controller will save Deniz Park's greenskeeper time and effort by enabling irrigation management from a smartphone or from one central server. This controller will be the ideal solution for the number of watering zones specified for this medium-sized property.



Results

Eco-conscious oasis

The grounds at Deniz Park are green in more ways than one: The irrigation system supports sustainability goals and the plants and trees are thriving. This urban oasis helps attract new tenants to the building's office spaces and the convenient control reduces labor costs since only one greenskeeper is needed to maintain the impressive grounds.

FLUIDRA
KAZAKHSTAN

"This project was indicative of Fluidra Kazakhstan's extensive experience in designing solutions using Rain Bird equipment. In the end, the customer received a high-performance irrigation system that is both intelligent and environmentally friendly."

Mikhail Borisov

General Manager, Fluidra Kazakhstan

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