

A JUNGLE IN THE HEART OF THE CITY



WHERE:

Poznan is on the Warta River in west-central Poland, is among the oldest and largest cities in Poland. Poznan is a centre of trade, sports, education, technology and tourism. It's an important academic site, with about 130,000 students. The city hosts the Poznan International Fair – the biggest industrial fair in Poland and one of the largest in Europe.

WHEN:

April 2017

CONTRACTOR/INSTALLER:

MPI

APPLICATION:

Irrigation and rain water utility



THE REQUEST

A booster set to feed an irrigation system in the BALTYK commercial building using rain water from rain collecting tank after filtering or from municipal network. The Baltyk building has 16 floors and over 12000 m² of office space, its distinguishing feature is the unconventional cascading structure, which makes the building look different on every side.

The booster is used for the irrigation of green inside and outside the building with a Drip Line, a type of micro-irrigation system that has the potential to save water and nutrients by allowing water to drip slowly to the roots of plants. Drip irrigation systems distribute water through a network of valve, pipes, tubing and emitters. The goal is to place water directly into the root zone and minimize evaporation.

The solution is a booster set of two vertical multistage pumps driven by a variable speed drive 2 KVC AD 85/120 T, able to deliver up to 130 l/min and 75 meters head, at the best efficiency point (each pump). All components that are in contact with water are made completely by non-corrosion materials (technopolymer and stainless steel) and certified for potable water.

The VFD, the ACTIVE DRIVER PLUS is complete with a pressure sensor, and a flow valve (all built in) and it's mounted on the delivery pipes. The pumps operate almost 7 days a week, the benefits during operation are constant pressure, low noise, stability (no hammering), energy saving (low energy costs), less water consumption and less maintenance (all protection such dry run, high and low voltage, anti-freeze are integrated inside the command and control system).

2 x KVCX AD 85/120 T

