

# Xitech's Groundwater Remediation Technology

## *Benefits*

### **Auto-Isolator 400 Groundwater Pump**

Xitech's Auto-Isolator 400 (AI 400) pneumatic, automatic, piston, groundwater pump, dramatically reduces all forms of above ground treatment system fouling.

How? The AI 400 pump has an internal piston that completely isolates the compressed air from the fluids being pumped. Injecting compressed air into the groundwater is a known major cause for iron and bio fouling of above ground treatment systems.

Xitech's AI 400 pump requires fewer pump height adjustments in the well.

Why? The AI 400 pump maintains a constant discharge flow rate down to 1 foot of water submergence.

How? The AI 400 pump has an active filling design. Our pump creates a high vacuum at the intake of the pump causing rapid filling of the pumping chamber.

Xitech's AI 400 pump is safer and easier to handle when removing from the well.

Why? The AI 400 pump comes with a quick drain valve that allows the technician to empty all of the discharge water out of the down well hose prior to pulling the pump making the pump lighter and eliminating water disposal above ground.

### **Model 5016 Multi-well Programmable Pump Controller**

Xitech's groundwater depression controls provide precise water level control in the presence of floating LNAPL.

How? Our True water level switch does not switch in the presence of LNAPL. It only switches when the water level changes.

Xitech's multi well programmable pump controller provides the operator with central control of all AI 400 pumps.

How? The Model 5016 pump controller controls when our AI 400 pneumatic pumps receive compressed air. Our controller accepts shut-down signals from the above ground treatment system (i.e. SCADA), provides total run time for each pump, and provides programmable water depression levels.

## **4” Single Pump Fast-On Well Seal**

Xitech’s 4” single pump well seal was engineered for easy installation and safe pump retrieval.

How? Xitech’s 4” single pump Fast-On well seal design does not require band clamps or rubber boots to seal. Xitech’s 4” Fast-On well seal is a flat plate design that accommodates the groundwater pump air lines, discharge hose, safety cable, level control switching cable, and a 1” level gauging port. This well seal uses an O-ring to seal which creates a vacuum tight seal that prevents surface water from entering the well and loss of vacuum at the well.

## **6” Dual Pump Fast-On Well Seal**

Xitech’s 6” dual pump well seal was engineered for easy installation and safe pump retrieval.

How? Xitech’s 6” dual pump well seal design is made of TWO separate metal plates. The larger plate accommodates the groundwater pump air lines, discharge hose, safety cable, and includes a 1” level gauging port. The smaller plate accommodates the Free Product skimmer air lines, product discharge line, safety rope, and level control switching cable. You now can remove the skimmer **WITHOUT** removing the groundwater pump. Both plates include vacuum tight seals to prevent surface water from entering the well and loss of vacuum at the well.