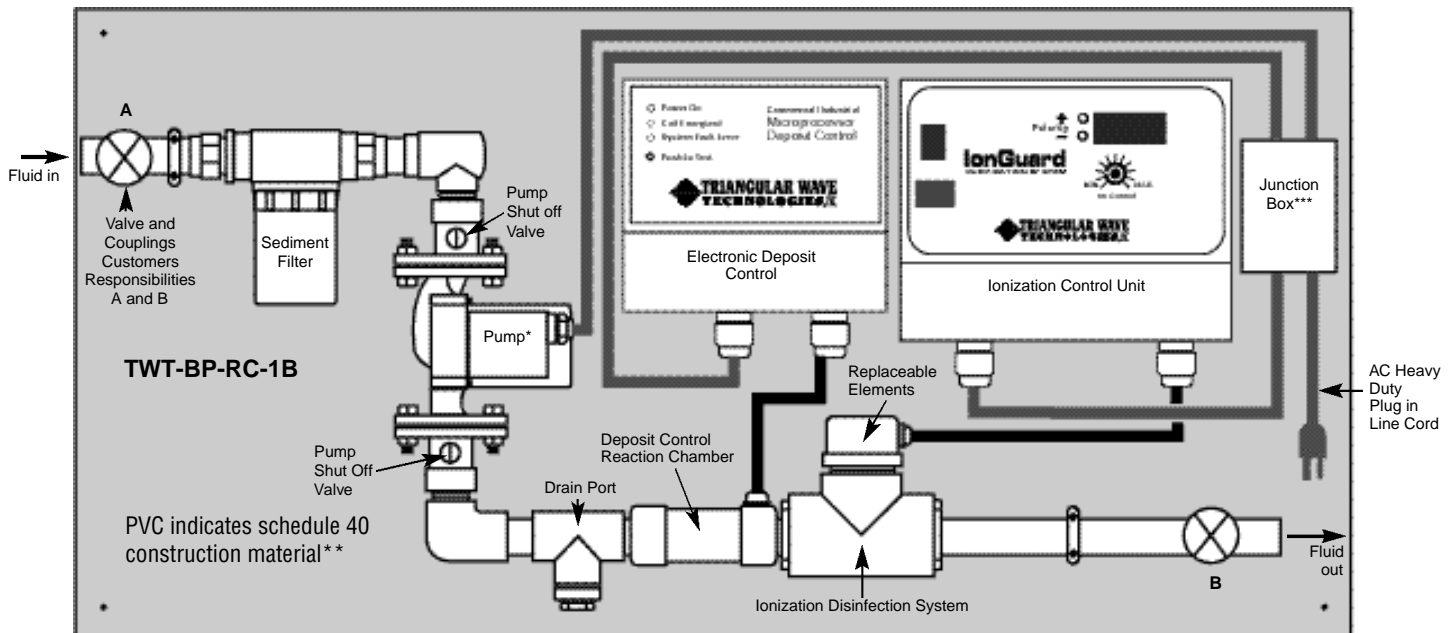


# Triangular Wave Technologies Patented ByPass Treatment Systems

Use TWT ByPass Systems with recirculating fluid systems or for large diameter pipe connections



Schematic rendering of TWT Bypass Treatment System

Factory assembled, ready for installation, compact, self contained system.

## Technical Data • 1" Bypass System • TWT-BP-RC-1B

**TWT-BP-RC-1B Wall Mounted 1" ByPass System – Dimensions of assembled board 42" X 24"**

### One-inch ByPass Deposit Control System

Low Pressure Pump – up to 2,500 gallons of total water in the application.

#### The main components of the systems are:

- Deposit Control System with Reaction Chamber
- IonGuard Ionization System to kill bacteria and biofilm in the water system
- Integrated Sediment Filter
- Pump: Continuous duty pump comes with isolation valves just upstream and downstream of the pump housing. The valve handles should be aligned with the direction of flow for proper operation.
- All necessary piping assembled, mounted and ready for plumbing into desired system installation.

When using the TWT ByPass System it is suggested to install a TWT Deposit Control System on the make-up line to the system being treated. The combined treatment approach will provide end-to-end fluid conditioning at all times.

Triangular Wave Systems represent a significant breakthrough in electromagnetic technology. The triangular wave has made possible the use of electromagnetic technology in applications of all sizes, from residential to large commercial and industrial systems. **Typically used to treat water in cooling tower and other recirculating water systems, the TWT Bypass Treatment Systems function much like the TWT Deposit Control Systems. They prevent scale, biofilm and biological deposits from forming on water system components, as well as preventing corrosion in all fluid based systems.**

#### In general, installation of the bypass system should follow five steps:

- Mounting of bypass system on appropriate support structure.
- Installation of connecting piping that will allow the redirection of water from the water system equipment; transport of the water to the bypass system, and return of the treated water to the water system equipment.
- Connection of the bypass system to the connecting piping.
- Connection of the bypass system to remote control system.
- Connection of the bypass system to electrical power.

The bypass system is provided with a mounting board. Select a suitable location and drill holes in the mounting board to suit the job site. The bypass system should be installed in an enclosure to shelter it from direct sunlight and direct precipitation. Temperature and humidity changes will not affect the operation of the bypass system. **Select a location that ensures the system water level is above the bypass system pump. The pump is not a self-priming pump.**

## Technical Data • 2" / 4" / 6" ByPass Systems • TWT-BP-RC-2

The ByPass System is factory assembled ready for installation, compact, self contained with 2 inch pipe solenoid and recirculating pump for use with recirculating water systems.

### TWT-BP-RC-2 Two-inch ByPass Deposit Control System

Low Pressure Pump – up to 6,000 gallons  
High Pressure Pump – up to 11,000 gallons

### TWT-BP-RC-4 Four-inch ByPass Deposit Control System

Low Pressure Pump – up to 16,500 gallons  
High Pressure Pump – up to 24,700 gallons

### TWT-BP-RC-6 Six-inch ByPass Deposit Control System

Low Pressure Pump – up to 33,000 gallons  
High Pressure Pump – up to 55,000 gallons



**Custom Orders:**  
Larger systems are available upon request. All systems may be customized to meet your needs.

#### Optional Upgrades:

- \*Self priming pump available upon request
- \*\*Schedule 80 PVC available upon request
- \*\*\*IonGuard Disconnect/Bypass switch for independent and/or seasonal operation available upon request



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