WaterCop® PRO by DynaQuip OUTDOOR

Supplementary Instructions

Used in conjunction with WaterCopPRO owner's manual

Indoor Control Unit

Installed within the home. Receives wireless signals from PRO components and notifies Outdoor Control Valve through hardwired cable.

WaterCopPRO Accessories

(sold separately) are installed within the home and wirelessly communicate with the Indoor Control Unit.

Outdoor Control Valve

Mounted to properly sized WaterCop ready brass valve plumbed above ground into exterior water line.

DynaQuip Controls • 10 Harris Industrial Park • St. Clair, MO 63077
Tel. 800-545-3636 • Fax. 636-629-5528 • www.watercop.com

Made in the USA

Application:

The WaterCopPRO Outdoor kit is used for installations where the main water shut-off valve or main water access is outside the home or building. Although weatherproof, field installation in submergible conditions is not recommended. Do not install the WaterCopPRO outdoor control valve below grade or below ground, or in pits or service boxes which may become filled with water.

System Components:

Included: The WaterCopPRO Outdoor Kit consists of a WaterCopPRO Indoor Control Box and a WaterCopPRO Outdoor Shut-Off Valve.

Also required and sold separately:

- Properly sized 1/2" to 1-1/4" WaterCop-ready ball valve. ANSI NSF372 approved.
- WaterCopPRO system accessories, i.e., PRO flood or temperature sensors, PRO monitoring station, etc.
- Outdoor rated, 7-conductor cabling for connection cut to length (max 100') no larger than 18 gauge.

Basic Operation:

The WaterCopPRO outdoor kit is designed to communicate with WaterCopPRO sensors, WaterCopPRO monitoring station, and other WaterCopPRO accessories.

WaterCopPRO Sensors detect moisture and communicate wirelessly with the WaterCopPRO Indoor Control Unit. The WaterCopPRO Indoor Control Unit then immediately sends a signal to the Outdoor Control Valve which closes the WaterCop valve and shuts off the water supply into the home.

STOP!

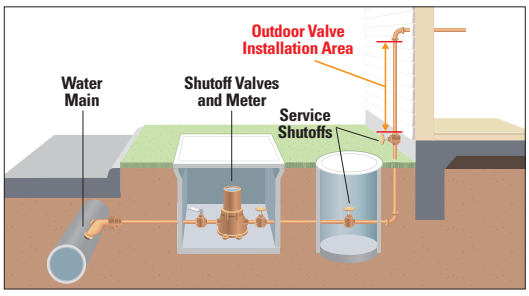
Do not install the WaterCop Outdoor Control Valve where it may become submerged. Install above ground, taking proper care to seal all connections and faceplate, tighten fitting around the cable connection, and allow proper slack in the connection wire for a drip elbow to avoid water intrusion.

Installing the WaterCop Outdoor Control Valve in a shaded area or providing ventilated shade will increase the longevity of the external and internal portions of the housing. The WaterCop Outdoor Control Valve is rated NEMA 4 (protection against rain/dust/and hose-down). While a cover is not required to prevent water intrusion, using one protects the polycarbonate housing against physical damage and tampering. Prolonged, direct sunlight can cause the electronics to overheat which can lead to premature failing. The use of a commercially available thermal protection cover is highly recommended. Thermal protection covers should have ample ventilation to keep the internal temperature of the enclosure as cool as possible.

Installation:

Local electrical and plumbing codes should be consulted to ensure that the installation is in complete compliance. (See installation section of the WaterCopPRO owner's manual for details).

THE OUTDOOR CONTROL VALVE MAY NOT BE INSTALLED UNDERGROUND, BELOW GRADE, OR IN ANY AREA WHICH MAY INADVERTENTLY FILL WITH WATER.



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Specific Installation Considerations: WaterCopPRO Outdoor Control Valve

The WaterCopPRO Outdoor Control Valve should be installed:

- in accordance with all local and state plumbing laws and restrictions
- outside the home
- in the main water line just downstream from the main shut-off valve
- above ground or above grade to avoid accidental submersion
- installation in harsh winter climates is not recommended due to freezing pipes

Destructive water intrusion may occur to the WaterCopPRO Outdoor Control Valve if installer fails to properly secure the exposed connections. While the WaterCopPRO Outdoor Control Valve is completely supported by the piping in your plumbing system when properly installed, placement of the valve should ensure that the housing is protected from use as a step or from other excessive loads. Protection from excessive heat and excessive sunlight is recommended to lengthen the product life.

Specific Installation Considerations: WaterCopPRO Indoor Control Unit

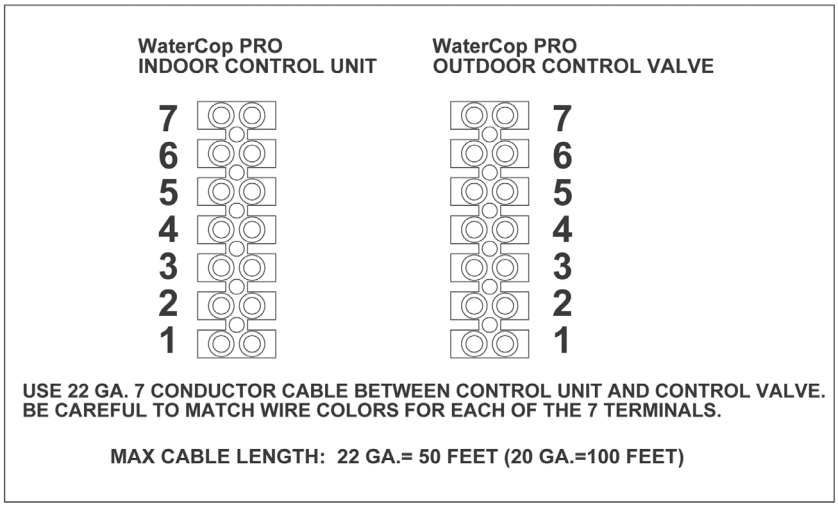
The WaterCopPRO Indoor Control Unit should be installed:

- inside the home
- in a convenient location where homeowner can access control buttons
- within the wireless transmission range of WaterCopPRO sensors
- within 50-100 feet (depending upon gauge of cabling used) of the WaterCopPRO Outdoor Control Valve

The WaterCopPRO Outdoor Control Valve requires a properly sized 1/2" to 1-1/4" WaterCop-ready ball valve (sold separately) which should be installed outdoors, in the main water line, just downstream from the main shut-off valve, and in a non-submersible location.

The WaterCopPRO Indoor Control Unit must be able to receive wireless signals from WaterCopPRO sensors and WaterCopPRO monitoring station (if used). WaterCopPRO repeaters may aid with transition range of sensors (only) if the home has unusual interference, outlying areas, and construction materials which hinder RF communication.

The WaterCopPRO Indoor Control Unit and the WaterCopPRO Outdoor Control Valve requires an outdoor rated, 7-conductor cabling connection no larger than 18 Ga. This cabling can be purchased from supply stores or directly from DynaQuip Controls as part number WPWPCB7.50 (20 GA. 50' length). This allows the WaterCopPRO Outdoor Control Valve to receive power and open/close signals from the WaterCopPRO Indoor Control Unit and communicate valve position back to the WaterCopPRO Indoor Control Unit. Using proper cabling and securing the connection is critical for proper installation and performance.



Wiring Instructions:

To make the connection between the WaterCopPRO Indoor Control Unit and WaterCopPRO Outdoor Control Valve:

1. Locate and create proper interior/exterior hole on home near the WaterCopPRO Outdoor Control Valve located on outdoor water main. This exposed opening should be properly sealed once installation is finished. Contact a professional if you are unsure how to create and seal this opening.
2. Determine and cut correct length of cabling needed.
3. Feed cabling from interior wall to exterior wall through opening.
4. Verify WaterCopPRO Indoor Control Unit is NOT plugged into power source.
5. Remove and retain 4 holding screws and face cover of WaterCopPRO Indoor Control Unit to expose the terminal strip inside the unit.
6. Loosen nut on bottom of WaterCopPRO Indoor Control Unit and feed 7-connector cable through nut and into and through liquid tight cord grip on bottom of unit. Feed enough length of the cable through bottom into the unit to allow for access to properly handle and wire.
7. Strip the cabling insulation back to separate and expose bare wire.
8. Wire as shown on instructional diagram.
9. Gently draw excess wire back through bottom of WaterCopPRO Indoor Control Unit until most of the slack is removed to allow for cover to be replaced.
10. Firmly and securely tighten down grip nut to create weather-tight seal and avoid water intrusion.
11. Repeat steps 5 through 11 for WaterCopPRO Outdoor Control Valve. Actuator may be temporarily removed from brass valve.
12. Verify all wiring connections are secure and take precautions to keep drip water from accidently entering the WaterCopPRO Outdoor Control Valve housing.

Additional Product Notes:

- The WaterCopPRO Indoor Control Unit has all the electronic features of the standard WaterCopPRO system. In addition, it contains a 7 point terminal strip numbered to match the 7 point terminal strip in the WaterCopPRO Outdoor Electric Actuator.
- The WaterCopPRO Indoor Control Unit uses the same programming protocol as the standard WaterCopPRO system.
- See detailed instructions within the WaterCopPRO owner's manual for programming WaterCopPRO accessories (sensors, monitoring station, etc.) to the WaterCopPRO Indoor Control Unit.
- As with other electrical devices, power surges or spikes can cause circuitry to malfunction or fail. Proper surge protection is necessary to avoid potential damage to the electronics of this system.

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