

Power Post™ Control Panel

Pump Connection Center | Timed or Demand Dose, Integrated Alarm
15 Amp, 120/240VAC | PPCP Series (Models: PPRS-0001 and PPRS-0002)

Alderon Industries™ | Patent Pending



QUICK START GUIDE

CSG000202_Rev/08_PPCCP_Power Post Control Panel | November 14, 2022, 11:05 AM

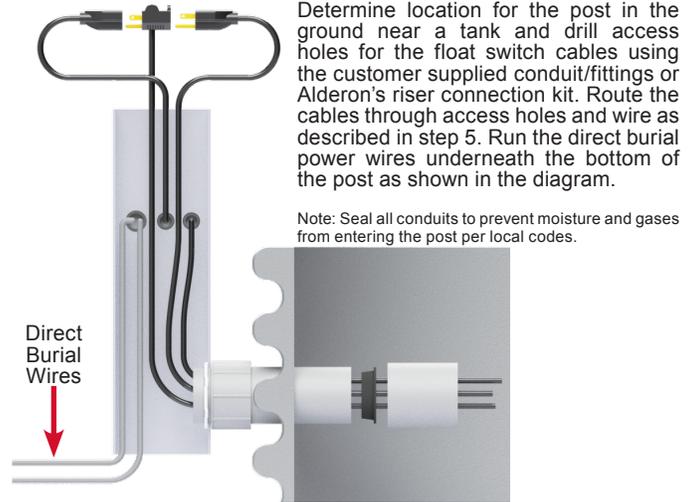
Safety Guidelines



WARNING

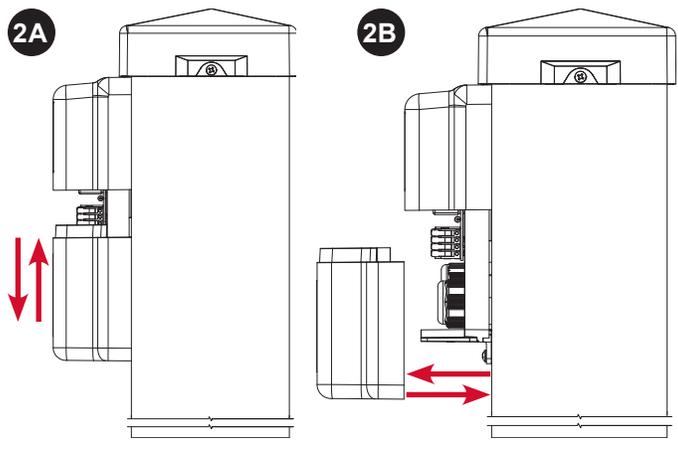
Before proceeding with the installation or operation of this product, read all instructions thoroughly, as well as complying with all federal, state and local codes, regulations, and practices. This product must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NFPA 70). Failure to properly install and test this product can result in personal injury or equipment malfunction.

Step 1: Install Post



Step 2: Remove / Install Bottom Cover

Remove the bottom enclosure cover screw, slide directly downward (2A) and pull directly away (2B). To install, line up the bottom enclosure cover with the grooves (2B), then slide directly upward (2A) until it meets the top of the enclosure so the screw hole is lined up and replace the screw at the bottom of the enclosure.



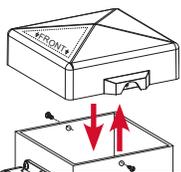
Step 3: Remove / Install Post Cap

Remove Post Cap:

- 1) Remove Screws and Lift Cap Upwards

Install Post Cap:

- 1) Position text FRONT (with arrows) Forward
- 3) Align Fastener Holes
- 4) Fasten Screws to Secure Cap to Post



Step 4: Installing Wire into WAGO

Before making wire connections and terminations, carefully read this step for proper functions of both types of WAGO connectors.

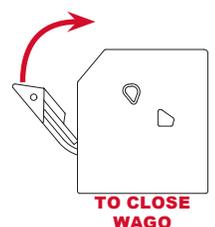
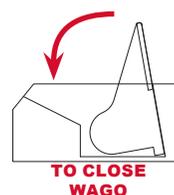
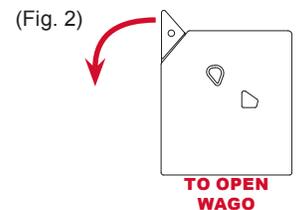
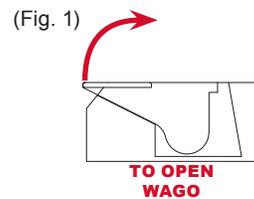
WARNING: Improper use of the connectors will cause damage, DO NOT use mechanical tools to open or close, hand usage only.

Wire Termination - Splice Connector WAGO (Fig. 1):

- 1) Lift tab(s) upward.
- 2) Insert wire(s) into slot.
- 3) Press tab(s) downward.
- 4) Make sure wire(s) are secured.

Wire Connection - Quick Snap Terminal WAGO (Fig. 2):

- 1) Press tab(s) outward. DO NOT open past 40° angle.
- 2) Insert wire(s) into slot.
- 3) Press tab(s) inward.
- 4) Make sure wire(s) are secured.

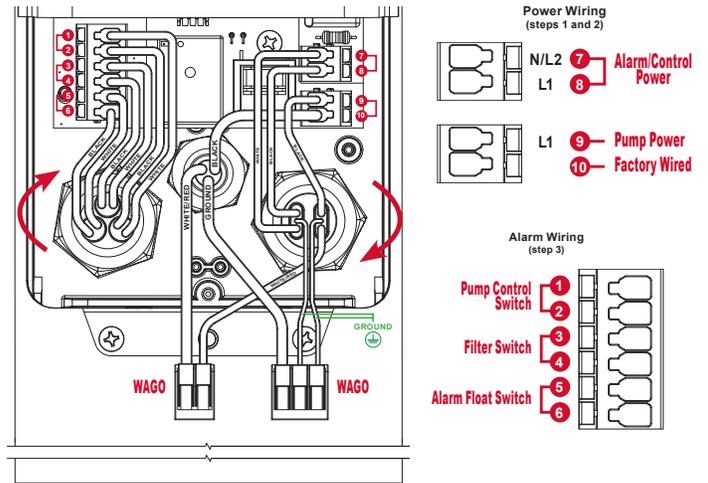


Step 5: Wiring and Piggyback Plug Connections

The wiring diagram shows 10 terminals on the quick snap terminal blocks that consists of five pairs of connections. Make sure to read and review the connector examples in step 4 for proper installation prior to wiring.

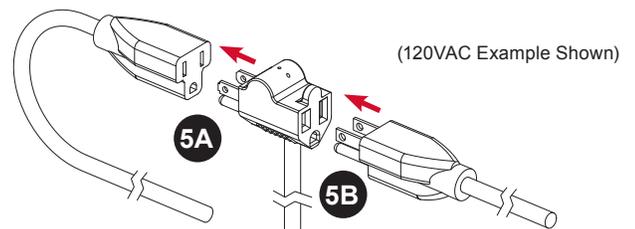
Note: The quick snap terminal blocks, are herein referred to as "terminal" for instruction purposes. The installation example shown is for 120VAC, for 240VAC installation the neutral (N) wire would be replaced by line connection (L2) and white wire would include a red band to indicate the wire is hot.

- 1) The first cable grip, starting at the right, has a cable grip divider allowing for two power sources to be brought into the enclosure. The right side of the cable grip is used for the pump power (attached in series). The line wire is connected to terminal 9 and neutral wire is terminated by the two-position Wago connector. The left side of the cable grip is used for the alarm/control power, which is connected to terminals 7 and 8. Terminal 7 is the neutral (N) connection and terminal 8 is the line connection (L1). The pump and alarm/control power ground wires are terminated using the three-position Wago connector. After bringing in the cables, firmly tighten the cable grip by twisting clockwise until securely fastened.
- 2) The female receptacle comes pre-installed in the middle cable grip. The line wire is connected to terminal 10, neutral wire is terminated by the two-position Wago connector, and ground wire is terminated by the three-position Wago connector.
- 3) The third cable grip has cable grip dividers allowing for three sensor connections. The pump control float switch is connected to terminals 1 and 2. The filter switch is connected to terminals 3 and 4. The high level alarm float switch is connected to terminals 5 and 6. After bringing in the cables, firmly tighten the cable grip by twisting clockwise until securely fastened.
- 4) NEVER leave ground wire(s) exposed, use provided Wago connector for wire termination.



OPTIONAL PIGGYBACK PLUG CONNECTIONS

- 1) Plug the male end of the piggyback plug on the in-line pump switch power cable into the pre-installed female power receptacle inside the post (5A).
- 2) Plug the male end of the pump power cable into the female end of the piggyback plug on the in-line pump switch power cable (5B) from #1.



Step 6: Testing and Backfill

Make sure all steps of the installation and wiring process is completed and there is power to the product.

1) TEST ALARM LEDs and BUZZER

Press the test/silence pushbutton, lifetime pump run event counter statistic should display, then alarm LEDs should illuminate while cycling between red, green, blue, and off. The OLED screen should display a TESTING (COLOR) event for respective LEDs after event statistic is displayed. Last, the buzzer should announce and OLED screen should display a TESTING BUZZER event.

2) TEST ALARM FLOAT SWITCH

Activate the alarm float switch, the red LEDs should illuminate, flashing and the buzzer should announce. The OLED screen should display a HIGH LEVEL ALARM event.

3) TEST ALARM SILENCE

Press the test/silence pushbutton on the front of the enclosure while the alarm float switch is activated. The red LEDs should keep flashing and the buzzer should silence.

4) TEST FILTER SWITCH

Activate the filter switch, the amber LEDs should illuminate, flashing and the buzzer should announce. The OLED screen should display a FILTER ALARM event.

5) TEST PUMP AND CONTROL/IN-LINE PUMP FLOAT SWITCH

Make sure the tank has water to perform the testing. Activate the control/in-line pump float switch, the blue LEDs should illuminate and the OLED screen should display a PUMP RUN event and the pump amps are displayed.

6) RECOMMENDED SYSTEM SETTINGS

Alderon™ recommends changing the factory settings for: high amp level, extended pump run time, and gallons per minute.

7) TEST WEEKLY

To ensure the product is functioning properly, test once a week.

BACKFILL: After installation and testing, backfill with dirt/soil.

Menu System - Main Menu

MAIN MENU - System Normal

From SYSTEM NORMAL screen, press the MENU button to access main menu and HAND/OFF AUTO will appear. Pressing MENU button from a blank screen will also access the main menu.



1.0 | MAIN MENU - HOA Pump Mode

From HAND/OFF AUTO screen, press right arrow key for menu to view system override options. Press down arrow key to the RESETBLE HISTORY screen.



2.0 | MAIN MENU - Resettable History

From the RESETBLE HISTORY screen, press right arrow key for menu. Press down arrow key to the SETTINGS screen.



3.0 | MAIN MENU - Settings

From the SETTINGS screen, press right arrow key for menu to enter password and program system settings. Press down arrow key to the LIFETIME HISTORY screen.



4.0 | MAIN MENU - Lifetime History

From the LIFETIME HISTORY screen, press right arrow key for menu. Press down arrow key to the MODEL / FIRMWARE screen.



5.0 | MAIN MENU - Model/Firmware

From the MODEL/FIRMWARE screen, press down arrow key to bring you back to the HAND/OFF AUTO screen.



Note: The down arrow key will cycle through the menu options until a specific option is selected using the right arrow key.

2.0 | Main Menu - Resettable History

From the RESETBLE HISTORY screen, press right arrow key to access the menu for event statistics and then press down arrow key for the available events within this menu.

- 2.1 Pump Run Stats
- 2.2 Extended Pump Run Stats
- 2.3 High Amp Stats
- 2.4 Pump Float Stats
- 2.5 Relay Stats
- 2.6 Dose On Stats*
- 2.7 Peak On Stats*
- 2.8 High Level Alarm Stats
- 2.9 Filter Alarm Stats
- 2.10 Pump Fail Stats
- 2.11 Relay Fail Stats
- 2.12 System Fail Stats**
- 2.13 Power Loss Stats

Press right arrow key for the individual stats of each event type listed above and data stored in the system. Each resettable history event stat has a clear history function. The non-volatile memory allows all settings and statistics to be retained during power outages.

Note: The down arrow key will cycle through all the resettable history menu options until a specific option is selected using the right arrow key as displayed on the screen. Press the left arrow key to exit from any screen. Press the test/silence pushbutton to exit the menu system.

- (*) Indicates Timed Dosing only
- (**) Indicates Demand Dosing only



3.0 | Main Menu - Settings Part I

Right arrow key from SETTINGS screen for menu, down arrow key to scroll.

- 3.1 Password (factory set to 1919)
 - i. Password 0000 will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to accept password; press left arrow to exit
 - vi. Incorrect entry will exit user to the settings menu
- Note: To change password, use up/down arrows until password screen reappears, then enter numeric values between 0000-9999, press MENU to save.
- 3.2 Normal LED Setting (factory set to LED On)
 - i. Normally LED Off?, press MENU to turn LED off
 - ii. Normally LED On?, press MENU to turn LED on
- 3.3 Pump Run LED Setting (factory set to LED On)
 - i. Pump Run LED Off?, press MENU to turn LED off
 - ii. Pump Run LED On?, press MENU to turn LED on
- 3.4 Silence Time Setting (factory set to 24 hours)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit
- 3.5 Extended Pump Run Time Setting (factory set to 30 minutes)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit
- 3.6 High Amp Level Setting (factory set to 15 Amps)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit
- 3.7 Gallons Per Minute Setting (factory set to Zero)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit

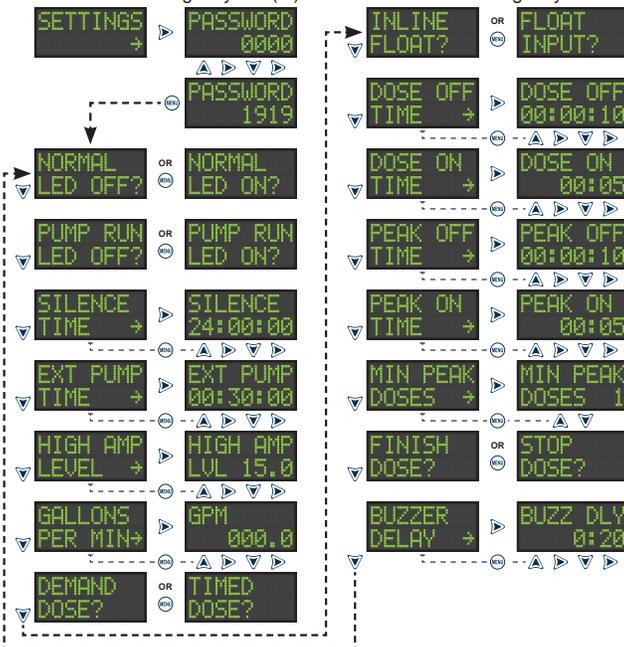
3.0 | Main Menu - Settings Part II

Right arrow key from SETTINGS screen for menu, down arrow key to scroll.

- 3.8 Dose Setting (factory set to Timed Dosing)
 - i. Demand Dose?, press MENU for Demand Dose
 - ii. Timed Dose?, press MENU for Timed Dose
- 3.9 Float Setting** (factory set to Float Input)
 - i. In-line Float?, press MENU for In-line Float
 - ii. Float Input?, press MENU for Float Input
- 3.10 Dose Off Time Setting* (factory set to 10 seconds)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit
- 3.11 Dose On Time Setting* (factory set to 5 seconds)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit
- 3.12 Peak Off Time Setting* (factory set to 10 seconds)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit
- 3.13 Peak On Time Setting* (factory set to 5 seconds)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit
- 3.14 Minimum Peak Dose Cycles Setting* (factory set to 1)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit

- 3.15 End Dose Setting* (factory set to Stop Dose)
 - i. Finish Dose?, press MENU for Finish Dose
 - ii. Stop Dose?, press MENU for Stop Dose
- 3.16 Buzzer Delay* (factory set to 20 seconds)
 - i. The current setting will appear on the screen
 - ii. Up or down arrow, increase/decrease selected digit
 - iii. Right arrow, moves cursor to the right (blinking)
 - iv. Press MENU to save changes; press left arrow to exit

(*) Indicates Timed Dosing only OR (**) Indicates Demand Dosing only

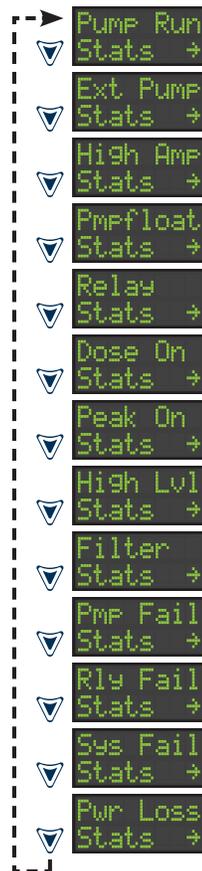


CAUTION: Alderon™ recommends changing factory settings to customize the system per application for desired operation.

4.0 | Main Menu - Lifetime History

From the LIFETIME HISTORY screen, press right arrow key to access the menu for event statistics and then press down arrow key for the available events within this menu.

- 4.1 Pump Run Stats
- 4.2 Extended Pump Run Stats
- 4.3 High Amp Stats
- 4.4 Pump Float Stats
- 4.5 Relay Stats
- 4.6 Dose On Stats*
- 4.7 Peak On Stats*
- 4.8 High Level Alarm Stats
- 4.9 Filter Alarm Stats
- 4.10 Pump Fail Stats
- 4.11 Relay Fail Stats
- 4.12 System Fail Stats**
- 4.13 Power Loss Stats



Press right arrow key for the individual stats of each event type listed above and data stored in the system. The lifetime statistics are non-resettable and are displayed in Title Case format for visual separation from the resettable statistics, which are displayed in UPPERCASE format. The non-volatile memory allows all settings and statistics to be retained during power outages.

Note: The down arrow key will cycle through all the lifetime history menu options until a specific option is selected using the right arrow key as displayed on the screen. Press the left arrow key to exit from any screen. Press the test/silence pushbutton to exit the menu system.

- (*) Indicates Timed Dosing only
- (**) Indicates Demand Dosing only

Included with Product

- (1) Power Post™; junction box and cable grips pre-installed on post
- (1) Pre-installed, female, 15A, pump power receptacle (120VAC or 240VAC, voltage depends on model/part number)
- (2) Wago connectors

Customer Support

Online
alderonind.com

Email
info@alderonind.com

QR Code
Scan code for full product details

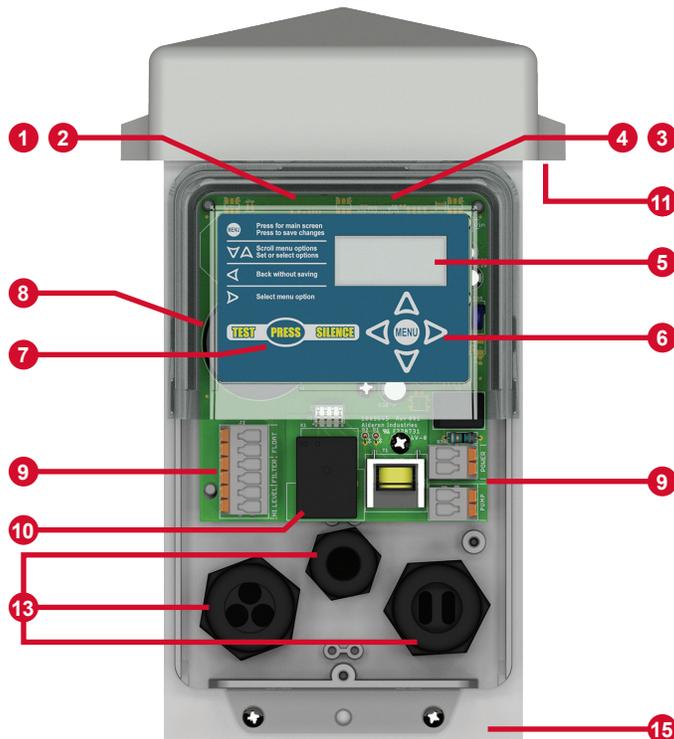


Specifications

Pump Power Receptacle:	120VAC or 240VAC, 15A, 60Hz
Pump Power:	120VAC or 240VAC, 13A or 15A, 60Hz <small>(voltage/amperage depends on model/part number)</small>
Alarm Power:	120VAC, 60Hz (240VAC, 60 Hz available; consult factory)
Power Consumption:	14 Watts maximum (alarm condition)
Enclosure:	Outdoor, rated Type 3R
Certifications:	FCC Part 15 (US/Canada), CSA (US/Canada)

FCC Part 15: NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: increase the separation between the equipment and receiver, connect the equipment into an outlet on a circuit different from that to which the receiver is connected, consult the dealer or an experienced radio/TV technician for help. Caution: changes / modifications not approved by Alderon Industries could void the user's authority to operate the equipment.

Power Post™ Control Panel - Features



- 1 **Power On Indicator** - Green LEDs illuminate inside top cover of enclosure cover, power on indicators can be disabled in system settings
- 2 **Alarm Beacon** - Alarm LEDs (various colors) illuminate inside the top cover of enclosure cover
- 3 **Pump Run Indicator** - Blue LEDs illuminate inside top cover of enclosure cover, pump run indicators can be disabled in system settings
- 4 **System LED Indicators** - Multiple color indicators will illuminate inside top cover of enclosure cover for visual indication of various system events and/or alarm conditions
- 5 **OLED Display Screen** - Displays system functions in addition to LED indicators
- 6 **Menu Keypad** - Toggle for system functions, program settings, and view statistics
- 7 **Test/Silence Pushbutton** - Quick access to lifetime pump run event counter statistic, test or silence the alarm, or exit the menu system
- 8 **Alarm Buzzer** - Annunciates to indicate an alarm event
- 9 **Quick Snap Terminal Blocks** - Fast and easy connections for system wiring
- 10 **Control Relay** - Controls current through pump circuit and is removable, ideal for systems with high usage environments
- 11 **Vented Post Cap** - Allows airflow, prevents build up of gases/condensation inside post
- 12 **QR Code (not shown)** - Scan for additional product information (alderonind.com)
- 13 **Cable Grips** - Pre-installed for easy installation
- 14 **Pump Power Receptacle (not shown)** - Pre-installed, female, 15A, available in either 120VAC or 240VAC (voltage depends on model/part number)
- 15 **Post** - Provides wire routing access for system power, pump power, float switch, and sensor cables while protecting from water intrusion

Model Number Nomenclature

PPCP1315A2

- | | | |
|--|--|--|
| 1 Base Model (Power Post™ Control Panel) | 3 Alarm Options (15' Alarm Float, 15' Filter Switch) | 5 In-Line Pump Switch Options (15A, 15' Wide Angle) |
| 2 Pump Voltage (120VAC Pump) | 4 Pump Control Float Options (15' Wide Angle) | 6 Riser Kit/Access Options (2.5" Riser Connection Kit) |