

# POWERLINE™ PRO SERIES WATER FILTER

## Powerline PRO Filters Owner's Manual



### Model/Product Numbers:

PRO 1040FD (17208)    PRO 0840F (17210)  
PRO 1252FD (17962)    PRO 1040F (17211)  
                                  PRO 1248F (17212)  
                                  PRO 1354F (17213)

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## Congratulations!

We know you'll love your clean water and your new Kinetico Powerline PRO Filter. You'll soon wonder how you ever lived without it.

Improving your water with a Kinetico Powerline PRO Filter is just one way to enjoy better water. Contact your Kinetico Dealer for more information about additional products that can further improve the quality of the water in your home.



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## Product Overview

The Kinetico Powerline PRO Filter can be configured to solve several different difficult water problems.

- Powerline PRO Calcite Systems** are designed to increase your pH and alkalinity.
- Powerline PRO Carbon Systems** are designed to remove chlorine and unpleasant tastes and odors.
- Powerline PRO Macrolite Systems** are designed to remove particulate matter, such as iron.

The advanced control valve on the system is customizable. It can independently backwash when needed, the timing of which is determined by your specific water quality and water usage patterns. Interfacing with the Kinetico Powerline PRO Filter is simple too. The control valve can be easily adjusted and monitored using either the front LED display, or it can be done wirelessly by using your smart phone or a tablet with the proprietary application.

## System Cycles

### Service

Untreated water enters the control valve and is fed down through the filtration media, and through the lower distributor basket. It then runs up the center riser tube and back out through the clean water portions of the valve.

### Backwash

Water is passed upflow through the media to expand the media and release the contaminants and to send them to drain. The clean media is now ready for service.

### Rest

A short rest is included to allow the media to settle.

### Rapid Rinse

A short downflow rinse is performed to rebed the media prior to service.

**NOTES:** The system by-passes untreated water while it is performing the above sequences, so it is important to choose the time of day for a backwash when no water is being used in the home.

## System Maintenance and Install Guidelines

### Water Pressure

Inlet water pressure range of 20-125 psi is required for backwash valve to operate effectively.

### Electrical Facilities

An uninterrupted alternating current (A/C) supply is required. Please make sure voltage supply is compatible with unit before installation. **A backup 9-Volt battery should be installed and properly maintained (replace yearly).**

### Existing Plumbing

Condition of existing plumbing should be free from lime and iron buildup. Replace piping that has heavy lime and/or iron buildup.

### By-pass Valves

Always install a by-pass valve if unit is not equipped with one. If valve is leaking, turn by-pass from Service to the By-pass position.

**NOTE: A check valve (included in extension pipe feeding by-pass valve) must be installed on the inlet to the unit.**

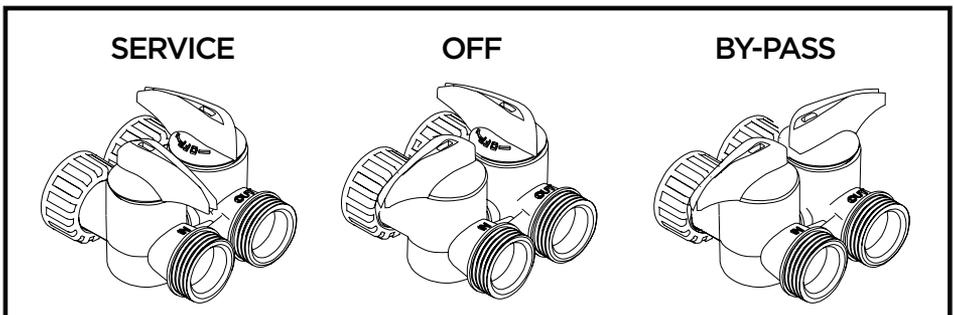
**NOTE:** If the valve continues to leak after turning the by-pass to By-pass position, shut off the main water line and call your local service technician (preferably the one who installed the system) IMMEDIATELY.

### Media

Filter media requires periodic replacement or replenishment. Contact your authorized Kinetico Dealer for additional details.

### CAUTION

- Do not exceed water pressure of 125 psi.
- Do not exceed water temperature of 110°F.
- Do not subject unit to freezing conditions.



## Set-up Procedures

### System Adjustments Using Push Button/Display Interface

**NOTE:** Changing any setting could affect the operation of your system. Consult your local Dealer before making any adjustments

#### Main Menu



1. To enter Main Menu, press the **Menu/Enter** button. (Time of Day will flash.)
2. To set the **Time of Day**, press the **Set/Change** button. (First digit will flash.)

**Example** [12:00]

- To change digit value, press the **Set/Change** button.
  - To accept the digit value, press the **Menu/Enter** button.
  - Next digit will flash to begin setting.
  - Once the last digit display is accepted, all digits will flash.
3. To set **A.M.** or **P.M.**, press the **Menu/Enter** button.
    - To change digit value, press the **Set/Change** button. Example [A]
    - To accept the digit value, press the **Menu/Enter** button.
    - Once **A.M.** or **P.M.** is accepted, the next menu item will flash.
  4. To set the **Number of Days between Backwash Cycles (A)**, press the **Set/Change** button. Repeat instructions from step 2. **Example** [A-06]
    - NOTES:** 1) Maximum value is 29.
    - 2) If value is set to 0, Automatic Backwash will never occur.
    - 3) Default setting is 6 days for filters.
  5. To Exit Main Menu, press the **Menu/Enter** button.
    - NOTE:** If no buttons are pressed for 60 seconds, the Main Menu will be exited automatically.

### System Adjustments Using Smart Phone/Tablet Interface

**NOTE:** Changing any setting could affect the operation of your system. Consult your local Dealer before making any adjustments

To take advantage of the bluetooth interface, this feature must be set up on compatible Bluetooth-enabled smart phones or tablets.

## Normal Operation

### Home Display

- Alternates between the display of Time of Day and Number of Days until the Next Backwash.
  - If Days Remaining Until Next Backwash does not read '1,' press and hold the **Set/Change** button for 3 seconds until the display reads '1.'
  - Backwash cycle will initiate at the next designated backwash time.

### Battery Backup (Uses a standard 9-Volt alkaline battery.)

#### Features of Battery Backup:

- During power failures, the battery will maintain the time of day as long as the battery has power. The display is turned off to conserve battery power during this time. To confirm that the battery is working, press either button, and the display will turn on for five (5) seconds.
- If power failure occurs while system is backwashing, the Kinetico Powerline PRO Filter will motor to a shut off position to prevent constant flow to drain. Depending upon system pressure and other factors, it is possible to observe a reduced flow to drain during this step. After power is restored, the Powerline PRO Filter will return and finish the cycle where it left off prior to the power interruption.
- When used without battery back-up, during a power failure, the unit stops at its current point in the backwash position and then restarts at that point when the power is restored. The time will be offset by the increment of time the unit was without power, so it is necessary to reset the time of day on the unit. No other system settings will be affected.

### Starting Extra Backwash Cycle

#### 1. To Start **Delayed Extra Cycle** Example [ 1 ]

- If Days Remaining Until Next Backwash does not read '1,' press and hold the **Set/Change** button for 3 seconds until the display reads '1.'
- Backwash cycle will initiate at the next designated backwash time.

#### 2. To start **Immediate Extra Cycle** ➡ First complete above step.

- With Days Remaining Until Next Backwash at '1.'
- Press and hold the **Set/Change** button.
- After 3 seconds, the backwash cycle will begin.

#### 3. To **Fast Cycle** thru backwash ➡ First complete above 2 steps.

- Press and hold the **Set/Change** button for 3 seconds to advance to the next cycle step.

**NOTE:** Fast Cycle is not necessary unless you want to manually step through each cycle step. (Repeat until valve returns to the home display - time of day.)

## Backwash Cycle

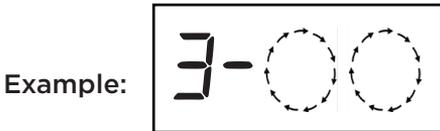
(**NOTE:** These may need to be adjusted based on application.)

Step	Common Cycle Step Times	Minutes
Step 1	Backwash	10
Step 2	Rest	5
Step 3	Rapid Rinse	10

**NOTE:** Depending on system pressure and other factors, it is possible to observe flow to drain in the rest cycle.

- When the valve is between positions, the display will flash the number of the step it is moving toward.
- The default time at which backwash will occur is 12:00 a.m.
- If system loses power and no backup battery is installed, it may return to default settings which could be different from those entered at start-up. Consult with your Dealer.

The motor's run direction during a particular backwash cycle step is indicated by the rotation direction of the last 2 digit displays.



## Troubleshooting Guides

Symptom	Probable Cause	Correction
<b>1. Fails to Backwash Automatically</b>	Power supply plugged into intermittent or dead power source	Connect to constant power source
	Improper control valve programming	Reset program settings
	Defective power supply	Replace power supply
	Defective drive motor	Replace motor (contact Dealer)
<b>2. Backwash at Wrong Time</b>	Time of day improperly set, due to power failure	Reset time of day programming and install 9-volt battery
	Backwash time set improperly	Reset backwash time programming
<b>3. Poor Water Quality</b>	Check items listed in #1 and #2	
	By-pass valve open	Close by-pass valve
	Channeling	Check for too slow or high service flow. Check for media fouling.
<b>4. Loss of Water Pressure</b>	Scaling / fouling of inlet pipe	Clean or replace pipeline. Pretreat to prevent.
	Fouled media	Clean media. Pretreat to prevent.
	Improper backwash setting	Backwash more frequently
<b>5. Continuous Flow To Drain</b>	Foreign material or media in control	Call Dealer. Clean valve and replace pistons and seals. Verify proper Backwash Flow Control.
	Internal control leak	Same as above.
	Valve jammed in backwash or rapid rinse position	Same as above.
	Motor stopped or jammed	Check for jammed piston. Replace piston and seals. Replace motor if motor is unresponsive.
<b>6. Media in Service Line</b>	Plumbed in backward	Re-plumb the system properly
	Internal leak in unit	Call Dealer
<b>7. Media Flows to Drain</b>	Media did not soak long enough	Re-soak the media for a longer length
	Incorrect or missing drain flow control	Check for proper flow control. Call Dealer, if problems persist.

## Error Codes

There are five (5) error codes that could indicate a possible problem with the control valve:

**Error 2** - Homing slot expected. Valve will start looking for home.  
(Normal operation continues)

**The following error messages indicate the valve requires service to continue:**

**Error 3** - Encoder is not sending a signal

**Error 4** - Unable to find homing slot

**Error 5** - Motor overload (stalled position or shorted motor)

**Error 6** - No motor current



**Kinetico makes an entire line of water treatment products designed to handle almost any water problem. For more information, contact your authorized Kinetico Dealer or visit our website at [www.kinetico.com](http://www.kinetico.com).**

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