# GreyLink

Installation, Service & Troubleshooting Manual

# MDL Series Greywater Irrigation Systems

www.greylinksystem.com

GETTING STARTED

INTRODUCTION

Thank you for purchasing a GreyLink<sup>™</sup> Greywater Irrigation System. This installation manual will guide you through a GreyLink<sup>™</sup> MDL Series installation. Additional instructions are also included with individual kits and accessories. If you have any questions feel free to contact us at support@filtrific.com, or call (425) 643-2312.

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Secondary Filter Re-Assembly
Cleaning Primary Filter
Accessing Greywater Processor
Accessing Filter Wash Disc Filter
Troubleshooting
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### INTRODUCTION

# SYSTEM OVERVIEW

Step



# GREYLINK GREYWATER PROCESSOR DIMENSION (INCLUDED EXPANSION RESERVOIRS ALSO PICTURED)





### GreyLink MDL Greywater System



### SYSTEM INSTALLATION

# PROCESSOR PLACEMENT

Step

The first step in the GreyLink system installation is to determine the location of the greywater processor. In-flowing greywater must be either gravity-fed from the building's greywater stub-out or pumped into the greywater processor using an external transfer station. (sold separately)

#### ABOVE-GROUND GREYWATER PROCESSOR INSTALLATIONS:

Ensure that the greywater processor is placed at an elevation which can be gravity-fed from the stub-out in the building. It is recommended that the processor and external components are placed on a level surface with at least 29" of clearance above the top of the processor's lid for filter removal.

#### FOR IN-GROUND GREYWATER PROCESSOR INSTALLATIONS:

For in-ground installations, excavate and place the Greywater Processor on 1 inch of compact sand. Sand will protect the bottom of the processor from sharp objects and help in leveling. Refer to the following diagrams when placing the greywater processor in the ground. Ensure that the incoming greywater is able to gravity-flow from the building stub-out.



### PROCESSOR PLACEMENT

#### LOW GREYWATER STUB-OUTS

For installations where the greywater stub-out is below the intake of the greywater processor, a transfer station may be installed. The transfer station features a built-in pump, and activation float switch which pumps the incoming greywater up and into the greywater processor intake port.

#### **GREYWATER PROCESSOR WITH TRANSFER STATION**



#### **GREYWATER PROCESSOR WITH TRANSFER STATION AND LID EXTENSION**



Step

#### CHOOSE A LOCATION FOR THE GREYWATER PROCESSOR & COMPONENTS

Refer to the schematics below and determine the orientation in which the greywater processor and components will be placed.



#### TOP LEFT: STANDARD MDL SYSTEM

TOP RIGHT: STANDARD MDL SYSTEM WITH A FRONT POSITIONED TRANSFER STATION







### RESERVOIR CONNECTION

SYSTEM INSTALLATION

Once the greywater processor has been placed and the greywater stub-out connected, the expansion reservoirs can be connected.

STEP: 1



Cut 3/4" off of the end of the port labeled "More Capacity" on the Greywater Processor.

STEP: 2



A "More Capacity" port is located on both sides of the Expansion Reservoir. Cut off the port that will be on the same side as the Greywater Processor's "More Capacity" port when slid together.

STEP: 3



One vent assembly is included with each expansion reservoir. Place the vent cap over the pre-drilled hole on the top of the expansion reservoir and tighten the cap.

The vent can also be extended or relocated by using the optional barbed fittings and flexible pipe.

STEP: 4



Connect expansion reservoirs to the processor as shown.

### SYSTEM INSTALLATION

# OVERFLOW CONNECTION

Step

#### **OVERFLOW TO SEWER**



#### **OVERFLOW TO SEPTIC**





# SECONDARY FILTER & MISC. CONNECTIONS

### SYSTEM INSTALLATION

Connecting the secondary filter assembly and zone valves.



SEE NEXT PAGE FOR COMPONENT ASSEMBLY

### SYSTEM INSTALLATION

# SECONDARY FILTER & MISC. CONNECTIONS

Step

Connect the secondary filter and misc. external connections as pictured below.



#### ELECTRIC FLOW SENSOR

See the following page for detailed information on installing the Weathermatic Flow Sensor.

# SECONDARY FILTER & MISC. CONNECTIONS

### SYSTEM INSTALLATION

#### FILTER WASH CONNECTION

Connect the filter wash disc filter to the pressure regulator on the processor. (see next section for diagram) Connect the 1/2" poly pipe to the barb on the tee filter.



#### POP-UP INDICATOR CONNECTION

Connect the pop-up indicators to the poly pipe



Green connects to the poly pipe leading from the discharge side of the secondary filter.



Brown connects to the poly pipe leading from the supply side of the secondary filter.

### SYSTEM INSTALLATION

# FLOW METER CONNECTION

#### Introduction:

Note: For use with the SmartLink with Flow Aircard. Please refer to the provided instruction manual that comes with the Aircard for further (and important) installation instructions.

The SmartLink SLFSI Series Flow Sensors provide accurate digital output signals proportional to the velocity of the liquid flowing through the mounting tee. The square wave digital signal is converted to flow rate by the SmartLink Aircard with Flow using calibration constants.



The SmartLink SLFSI Series Flow Sensors uses the same two wire path for power supply and signal output. The sensor circuit contains a pre-amplifier allowing the signal to travel up to 2,000 feet using P-39 shielded, twisted pair cable.

The flow sensor housing, held in place with a retaining nut, contains the detection circuitry and carries the unique four-bladed impeller on a transverse axle. The housing and mounting tee are custom molded to form an integrated measurement chamber resulting in highly accurate, repeatable flow measurements through a wide range of velocities. The axle and impeller along with the sealing o-ring are replaceable in the field.

#### Mechanical Installation- Location and Orientation:

Because an impeller sensor measures the velocity of the liquid and converts it to a flow measurement based on area, proper flow measurement depends on the condition of the pipe interior and the sensor's location in the piping system. The pipeline must be full, free from trapped air, floating debris and built up sediment. The mounting tee should be installed with a minimum of 10 diameters of straight pipe (ex. 15 inches for 1 1/2 inch pipe), upstream and a minimum of 5 diameters of straight pipe (ex. 7 1/2 inches for 1 1/2 inch pipe) downstream to eliminate irregular flow profiles caused by valves, fittings or pipe bends.

1. Always install flow arrow on the mounting tee pointed down-stream. Allow 3 3/4" clearance to remove flow sensor housing from tee for service. The tee is usually installed with the housing up in the vertical or 12:00 O clock position. However, if necessary, it may be installed with sensor housing at an angle from vertical to provide clearance.

- 2. Flow sensors may be installed inside a building, outside above grade or underground. If installed above grade, consider security issues to prevent damage or disassembly. If installed below grade, provide access for service.
- 3. Flow sensors are most typically installed below grade in a horizontal section of pipe with the sensor housing up. Do not direct bury the flow sensor. Provide a meter pit or valve box of adequate size and drainage to service the sensor. Provide a service loop in the wire connections to allowing the sensor housing to be brought above grade.
- 4. Flow sensors may be installed on vertical sections of pipe providing that the piping is full and does not contain trapped air. A vertical pipe with rising flow is preferred over falling flow. The sensor housing may be oriented in any direction radially around the pipe.

#### Mechanical Installation- Installing sensor in pipe

- 1. SmartLink SLFSI-T Series PVC Flow Sensor tee features socket ends intended for solvent welding into PVC piping systems. Use Best Industry Practices to insure that the sensor is installed in the correct position with strong permanent joints.
- 2. Disassemble the flow sensor before joining the tee to the piping system. Remove the flow sensor housing from the tee by loosing the retaining nut by turning it counter-clockwise and pulling the housing straight out of the tee.

Do not pull on the wire leads!







# AUTO-FILL CONNECTION

Connect the auto-fill assembly to the port labeled "auto-fill" as pictured below. Reduce the flow as needed to avoid excessive water flow.



### SYSTEM INSTALLATION

# MOUNTING CONTROL BOXES

Step

Mount the GreyLink control boxes on either an interior or exterior wall. Additional wiring will be required to connect all of the control center components together. Line voltage wire & connections are not included with the system.



**Pump Start Relay** 

Intake Controller Activates the actuator controller when rainfall is detected.

Actuator Controller Activates the valve actuator rotation on the intake diversion valve.



# CONTROL CENTER CONNECTION

### SYSTEM INSTALLATION

Please contact a certified electrician to connect the GreyLink control center components as detailed in the following fold-out wiring instructions.



### SYSTEM INSTALLATION

# CONTROLLER TERMINAL CONNECTION

Step

The Filter Wash is activated every time the Irrigation Controller activates a Zone Terminal



If some zones will be greywater and some potable water zones, go to the advanced section under programming and select "master valve off" for the non-greywater zones. This will keep the processor pump from running when the non-greywater zones are operating.

# WEATHER STATION INSTALLATION

### SYSTEM INSTALLATION

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### SLW5 Wireless Weather Station Quick Start Guide

The SLW5 is a wireless weather station operating on a 900 MHz bi-directional frequency. Maximum range is 1500 feet (457m) Line of Sight (LOS). The SLW5 is operable with all SmartLine® models and firmware versions. The SLW5 and SLHUB-RF-5 are "pre-paired" or synched at the factory for your convenience.

#### SLW5 QUICKSTART INSTRUCTIONS

Required Hardware:

- SmartLine<sup>®</sup> irrigation controller/all models and firmware versions
- SLHUB-RF-5 wireless communication hub
- SLW5 Wireless Weather Station
- 1. Install the SLHUB-RF-5 and secure with the provided screw.
- Press down on the rain wick at the top of the SLW5 for 5 seconds. Watch through the openings in the cover on the bottom of the SLW5 to observe LED blinks. All blinks should be GREEN. If all blinks are GREEN proceed to step 4. If any blinks are RED, then use the Complete Installation and Operation Instructions.
- 3. Mount the SLW5 Weather Station. Choose a location that is open to rainfall with good air circulation and avoid heat sources.
- 4. Go to the SmartLine® controller and press the Mode button to place the controller in the Auto Adjust mode. If you have a GREEN mode LED and a blinking antenna icon in the display, the installation is successful. If you see a message in the display that says "I need latitude set," or "I need weather station" recheck SmartLine® required programming data (see controller manual) and/or repeat installation of the SLW5 using the Complete Installation and Operation Instructions.



Help Desk Requests: Online: support.weathermatic.com Email: support@weathermatic.com



### SYSTEM INSTALLATION

# SMARTLINK CONNECTION SETUP



Refer to the following three pages for information on setting up the SmartLink AirCard and programing the controller. For additional information on the SmartLink AirCard please see the SmartLink manual under the "Additional Resources" tab in the back of this guide.



#### SL-AIRCARD Installation & Quick Start Guide

#### **1** INSTALLING THE AIRCARD

- Verify the version of SmartLine controller is compatible through the Advanced menu. Only versions 3.1 and higher are compatible.
- Remove the SmartLink Aircard, accessory bag containing screws, and antenna from the box. On the outside of the box and Aircard is a label with the Aircard 19 digit ID number. You will need this to activate and register your Aircard on the SmartLink Network.
- 3. Screw the antenna into the Aircard.
- Run the Aircard cable up through the bottom of the SmartLine controller case. You may need to widen an existing hole using a drill or punch out the area indicated on the bottom.
- 5. Plug the cable into the RJ-11 phone jack located inside the controller. Ensure it is plugged in completely.
- 6. Verify all of the cables are out of the way and close the panel door, ensuring it is closed completely.
- 7. The Aircard status will flash rapidly green until it cycles through. This will last approximately 15-30 seconds.
- If you have not yet activated and registered your Aircard, the Aircard status will flash 3 green and then 1 red indicating activation is required. See Step 2 -Setting up your SmartLink Network Account.
- If you have activated the Aircard through the SmartLink Network, the Aircard status will be a solid green light once it establishes communication. If, after activation on the SmartLink Network, the status flashes red, please contact the Help Desk.
- 10. Complete the installation by mounting the Aircard using the screws provided in your accessory bag. The antenna should face down.

\*SmartLink is supported by the latest version of the most popular internet browsers: Internet Explorer, Firefox, Chrome, and Safari. We recommend you update your internet browser to the latest version to be sure of compatibility. For example, Internet Explorer version 8 and higher is supported (version 7 and lower is not). Go to the Help menu item – About Internet Explorer to see your browser version number.





#### **2** SETTING UP YOUR SMARTLINK NETWORK ACCOUNT

 Go to www.smartlinknetwork.com\*. Use the "Login" button at the top right to create a new account. When creating a new account, please fill out all required areas marked with an asterisk\*. Note: Company Name is required. If creating a personal account, use your name in place of the company name.



- 2. Once logged in, you will be taken to the Sites page.
- 3. To add a new site, select the "+ New Site" button at the top of the Site page.

Smartlink D SITES	INSPECTIONS	MY ACCOUNT +
My Sites	(	+ New Site Sites Controllers
Nevada Sacramento San california	Urah Colorado	S Kansas City Map Satellite Kansas Missouri St. Louis
Francisco Annova Las Vegas Los Appeas A	Albuqueque	Oklahoma Tei Arkansas

4. Enter the Site name and complete address.

SmortLi By Weatherm		CONTROLLERS	INSPECTIONS	SUPPORT
New Si	te			
Name	Name			
Address	Address Line 1			
	Address Line 2			
City	City			
State	State			
Zip	Postal Code			
Country	United States	\$		
	Create Site			

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- 5. Select the Save button
- 6. In the selected site, select the "New Controller" button to activate your Aircard.

	<u>ح</u> ک ا		DLLERS INSPE	CTIONS SUPPORT	MY ACCOUNT -
A Your Site Name	In Reports	Q. Inspections	A Events Log	≓ Communication Log	Ø Settings +
		S	uccessfully updated	site.	
Return to Sites Your	Site Name				
Your Site Na 92078	ame 1234	Site Stree	t, Los Santo	os, Ca	New Controller
7 Day History			7 Da	y Forecast	
1.00			-1.00 We	ather for Los Santos	,Ca More at Ec
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- 7. Enter a name to identify the SmartLine controller to which the Aircard will be connected.
- 8. On the outside of the box and on the Aircard is a 19 digit number. This is the Aircard ID. Enter it exactly as shown and verify it is correct.
- 9. Enter location information.



- 10. Verify the site is correct or select another site from the drop down menu.
- 11. Select the Activate button to activate the Aircard. Only select the Activate button once.



13. If you have not installed the Aircard, please see STEP 1 – Installing the Aircard.

#### **Help Desk**

#### Help Desk Requests:

Open Monday – Friday 8:00 am – 5:00 pm CST Online: smartlink.zendesk.com Email: support@smartlinknetwork.com Telephone: 888-484-3776

 If after installation and activation on the SmartLink Network, you receive errors, please contact the Help Desk for further assistance. See Step 3 – Helpful information.

#### **3** ADDITIONAL INFORMATION

#### Troubleshooting

Controller not supported	The controller identifies as firmware version other than 3.10 or 3.13. Only 3.10 and higher are compatible and supported. (Contact distributor to upgrade.)
Could not connect	The connection timed out. Usually this is seen when the Aircard is unplugged or requires a reset (unplug, wait 10 seconds and plug back in).
Connected, but no response	The Aircard is connected, but it cannot communicate with the controller. This can happen if the controller door is not completely closed, or possibly for other unknown controller-related reasons.

#### **Contacting the Help Desk**

If there's a need to contact support, be prepared to provide the following information:

- Your Name and Contact information
- Site Name
- Which status light is red on the Aircard and/or Error message received on the SmartLink Network.
- Controller ID This is found by opening the drop down menu next to "Additional Controller Info" while in the controller page.

ime		SLW Model SLW5
Your Controller Name	d	RI W/L conting
Aircard ID		Boof
8901260762232177	676	
		Save Cancel
Location / Description		
San Marcos		
Activate Ca	ncel	
Controllor 9m	arti ina 2.02	
Model	artLine 3.23	
Location San	Marcos	
Stationa 12	Topos	
Controller ID CTL	2682	
7droard ID 998	1260762232177676	
Aircard Version 0.20	٥	
Renewal Date 201	4-08-14	
CI M Model CI M	N5	
OLTY WOOD SLY	10	



Scan with smartphone to go to web-based help.

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# IRRIGATION CONTROLLER PROGRAM

### SYSTEM INSTALLATION

To program the controller use your phone, tablet or computer to access the SmartLink app, select controllers, select controller #1 and scroll down to programming.

#### SAMPLE PROGRAM SETTINGS:

In this example program D has been selected to be the filter basket wash zone. Terminal 5 on the controller will be left disconnected but scheduled under program D to be activated and thereby turn the pump on to provide additional washing of the filter screen for five minutes, for three additional times per day.

Watering Days Program A Days of the Week						Watering Days Program B Days of the Week				Watering Days Program C Days of the Week							Greywater Processor Filter Wash Program D										
S	Μ	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	Μ	Т	W	Т	F	S			ys c				
x			x			x		x			x					x			x		S	Μ	Т	W	Т	F	S
						~		~			Χ										х	Х	х	х	х	Х	х

Program A Start Times	Program B Start Times	Program C Start Times	Program D Start Times
1 <sup>st</sup> : 6:00 AM	1 <sup>st</sup> : 6:00 AM	1 <sup>st</sup> : 6:00 AM	1 <sup>st</sup> : 8:00 AM
2 <sup>nd</sup> : Off	2 <sup>nd</sup> : Off	2 <sup>nd</sup> : Off	2 <sup>nd</sup> : 12:00 PM
3 <sup>rd</sup> : Off	3 <sup>rd</sup> : Off	3 <sup>rd</sup> : Off	3 <sup>rd</sup> : 4:00 PM

	Zone Run Times Location	Program A	Program B	Program C	Program D
Zone 1:	Drip Front Yard	30 min	Off	Off	Used
Zone 2:	Drip Back Yard	Off	30 min	Off	Used
Zone 3:	Drip East Side Yard	Off	Off	15 min	Used
Zone 4:	Drip West Side Yard	Off	Off	15 min	Used
Zone 5:	Processor Spray Ring	Used	Used	Used	5 min

#### NOTE:

The greywater collected in the Greywater Processor needs to be dispersed every day. As shown above, every day of the week has at least 1 greywater zone assigned to it, not including program D.

To add non-greywater zones to the irrigation controller, in the above example, select program A, B, or C and place the additional zone run times in the program that best suites the watering days needed.

### **OPERATIONAL OVERVIEW**

# GREYLINK MDL SYSTEM OPERATION





## SERVICE GUIDELINES

The GreyLink MDL System requires periodic maintenance. The following are recommendations based on average usage as detailed below:

Service Guidelines for Systems with a Washing Machine Connected									
Primary Filter: 6 months (recommended)*									
Secondary Filter:	6 months (required)								
Service Guidelines for Systems without a Washing Machine Connected									
Primary Filter:	1 year (recommended)*								
Secondary Filter:	1 year (required)								

The GreyLink primary filter is self-cleaning however for maximum water conservation it is recommended that the primary filter is manually cleaned per the intervals detailed above or more frequently for heavy use.

#### NOTE:

When using the overflow flush tubes, excessive collected debris is removed from the bottom of the basket when filter draining becomes impaired. For maximum water conservation, clean the filters in shorter intervals before the filter baskets reach the point of self-flushing.

### SYSTEM SERVICE

# CLEANING SECONDARY FILTER

Section

#### NOTE:

Disconnect the power from the pump before servicing the filter.





#### STEP 2: REMOVE THE FILTER ELEMENT

Pull straight back on the filter handle to remove the filter element.

Section



CLEANING SECONDARY FILTER

SYSTEM SERVICE

STEP 3: REMOVE THE HANDLE AND SILICONE STRETCH BANDS





**CLEAN THE FILTER FABRIC** Unroll the filter fabric and spray off the collected lint.

### SYSTEM SERVICE

# CLEANING SECONDARY FILTER



STEP 5: REMOVE THE FILTER TUBE

#### STEP 6: WASH LINT FROM THE FILTER SCREEN

Wash away lint accumulation on the filter element by directing a spray nozzle against the inside of the surface of the filter screen. This will reverse wash the lint from the outer surface of the screen.



2



### SYSTEM SERVICE

Follow the steps below to re-assemble the secondary filter after cleaning.





### STEP 2: ATTACH THE FACE PLATE

Position the compression face plate against the filter opening and hand tighten the clamping knobs.

### SYSTEM SERVICE

# SECONDARY FILTER RE-ASSEMBLY







# CLEANING PRIMARY FILTER

### SYSTEM SERVICE

Although the primary filter is self-cleaning, it is recommended that the filter is periodically cleaned to retain optimum system efficiency and functionality.



**REMOVE ACCESS CAP** Turn the knobs on each side of the cap so they are parallel and past the dot as shown.

#### **REMOVING FILTER FLUSH TUBES (OPTIONAL)**

Occasionally, it is recommended that the primary filter is manually cleaned. In order to access the primary filters, the overflow flush tubes must be removed.



**STEP 1:** Pull back on the Filter Flush Tube to disconnect pipe from the overflow port.

**STEP 2:** Lift the Filter Flush Tube from the Filter Carriage. The Primary Filter Baskets can now be lifted out.

### SYSTEM SERVICE

# PRIMARY FILTER CLEANING

Section

Remove the filter screen from the filter frame by loosening the wing nut on the bottom of the basket. Use a standard garden hose to spray debris from the basket. Once the debris is removed from the basket reconnect the screen, replace the basket in the processor and reconnect the overflow flush tubes.







# ACCESSING GREYWATER PROCESSOR

### SYSTEM SERVICE

Follow the steps below to access the internal components inside of the Greywater Processor.



**STEP 1:** Remove front and back connection bolts.



**STEP 2:** Remove side connection bolts.



**STEP 3:** Remove poly-mat, overflow flush tubes and filter baskets.



**STEP 4:** Remove the bolt at the back of the filter carriage.



**STEP 5:** Lift the back of the filter carriage to clear the metal wash assembly while pulling on the carriage then lift out.



# ACCESSING GREYWATER PROCESSOR

#### DISCONNECTING OVERFLOW FROM CARRIAGE:



Overflow connected to carriage



**STEP 1:** Rotate the fastening nut left or right 90 degrees to free the collar from the carriage.



**STEP 2:** Orient the fastening nut to the flange as shown then pull back on the accordion overflow tube.

# Section





# ACCESSING GREYWATER PROCESSOR

### SYSTEM SERVICE

After the filter carriage has been lifted out, internal components are easily removed for inspection or future servicing.



### SYSTEM SERVICE

# FILTER WASH DISC FILTER

Section

The filter wash disc filter prevents initial installation pipe debris from plugging the internal wash system. Unless there has been a disruption to the system this is not a regular maintenance item. See page 10 for location.



# TROUBLESHOOTING

Although the primary filter is self-cleaning, it is recommended that the filter is periodically cleaned to retain optimum system efficiency and functionality.

PROBLEM:	SOLUTION:
Minimal water is coming out of the drippers and neither performance indicators are fully popped up.	Both the primary and the secondary filter needs to be cleaned.
Minimal water is coming out the drippers and the brown indicator (pump) has fully popped up but the green indicator has not popped up.	The secondary filter needs to be cleaned.
Both filters have been cleaned and the pop-up indicators are still not fully popping up. Note: If not draining back to the sewer make sure the receiving area is sufficient to not cause water to backup over the top of the filter carriage.	The screen at the base of the pump has become restricted with micro particles. Remove the filter carriage and lift out the pump and wash off the pump intake.
The pump will not turn on.	Make sure there is power to the outlet, the filters have been cleaned, and there is at least 3" of water at the bottom of the tank to engage the pump switch. If the pump still is not pumping, unplug the piggy-back cord connection and plug the pump directly into the outlet. If the pump starts pumping then the float switch is defective. If the pump motor still does not start, then the pump will need to be serviced.
Filter wash nozzles are not spraying	Installation debris has collected in the filter wash strainer. Remove the filter disc element & wash debris. See page 10 for the filter wash disc filter location.

# SYSTEM WARRANTY

#### LIMITED TRADE WARRANTY

The Filtrific Co. LLC (Filtrific) offers a 5 year warranty on all GreyLink polyethylene components. All other products and accessory components are warranted to be free of defects in material and workmanship for a period of one (2) years from the original date of purchase. This warranty extends only to the original installer of the GreyLink system. Filtrific will repair or replace any properly handled and installed product which fails under normal operating conditions within the warranty period, providing it was installed and maintained correctly, and all materials are returned to the factory (shipping prepaid). This warranty does not extend to labor or replacement charges, nor does it apply to any equipment of another manufacturer used in conjunction with GreyLink products. Filtrific shall not be held liable for indirect, incidental, or consequential damages to GreyLink products.

GreyLink™ by Filtrific<sup>®</sup> 13280 NE Spring Blvd. Bellevue, WA 98005 P: 800.906.0604 • F: 425.482.9559

#### www.greylinksystem.com

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