



# AirDog® Filter Wrap Heater Kit

## INSTALLATION MANUAL

### AirDog® Filter Wrap Heater Kit

PLEASE READ  
THESE INSTRUCTIONS  
THOROUGHLY  
BEFORE BEGINNING  
INSTALLATION



Revised 7/31/2025



Part No. FWHK-1000-12V/24V  
AND

Part No. FWHK-0125-12V



Proudly Made in the USA

[www.airdogdiesel.com](http://www.airdogdiesel.com)

1-573-635-0555 or

1-877-463-4373

*Providing "Test Cell Performance" in "Real World Conditions" Since 1993.*

# PureFlow® Technologies, Inc.

## AirDog® Filter Wrap Heater Kit

### Guidelines & Parts List

The AirDog® FW Heater is an extra step of thermal protection, to help prevent the fuel system from gelling in cold climates.

The AirDog® Filter Wrap Heater Kit features two top-of-the-line 100W heater elements, in silicone fuel filter wraps. This heater system provides a simple solution to add heat to your fuel system. The FW fuel heater is an electric, self-regulating, and self-protecting heater. Power to the heater varies by temperature, and it requires the minimum current, and does not need any additional thermostat for controlling its heating function.

---

---

### SAFETY GUIDELINES

**CAUTION:** Chock the vehicle's tire to prevent from rolling.

**CAUTION:** Wear safety glasses when operating power tools such as drills and grinders or when using a punch or chisel.

**CAUTION:** Route the fuel lines keeping them away from hot exhaust components and/or moving parts. Properly secure the fuel lines to prevent chaffing.

If you are uncertain of any installation procedure, contact *PureFlow® Technologies, Inc.* for technical assistance.



# PureFlow® Technologies, Inc.

## AirDog® Filter Wrap Heater Kit

### Filter Wrap Heater Kit Parts List

			FWHK-1000 (12V)	FWHK-1000 (24V)	FWHK-0125
1	Installation Manual	206-9-FHK			
1	Fuel Heater Wire Harness	5E-2-019-FH			
1	Y-Adapter, Wire Harness	908-5E-2-021			
2	Filter Wrap Heater, 1000 (12v)	908-4H-4-00003			
2	Filter Wrap Heater, 1000 (24v)	908-4H-4-00005			
2	Filter Wrap Heater, 0125 (12v)	908-4H-4-00004			
1	Add-a-Circuit Fuse TAP Adapter	908-5E-2-018			
15	12" Zip Tie	5H-2-1-12			

### Installation Instructions

Note: The two wraps must be installed per the following directions, as there is not enough clearance between the filters, when installed on the AirDog® filter base, to spin the two filters past each other when the fuel filter wrap heaters are installed. Attempting to do so may damage the heaters.

Also Note: We suggest beginning this process with a new (dry) set of fuel filters.

1) Set a filter wrap face-down on a clean, flat surface.



2) Lay the water separator onto the filter wrap, and wrap the filter wrap around the water separator, holding it together at a spring location..



# PureFlow® Technologies, Inc.

## AirDog® Filter Wrap Heater Kit

---

- 3) Use a pliers or a hook to pull a spring across the seam to latch the spring to a hook.  
A. Repeat with the other spring/s.



- 4) Install the wrapped water separator per the AirDog® instructions:

A. Pre-fill the water separator completely with fuel.

B. Lightly lubricate the gasket with oil or diesel fuel.

C. Spin the water separator on and tight securely by hand. Hand tight is generally tight enough, but use caution, so as not to damage the heater, if you opt to use a filter wrench to tighten an extra ½ turn.

- 5) Install the AirDog® fuel filter per the AirDog® instructions.

A. You can pre-fill the fuel filter if you prefer.

B. Lightly lubricate the gasket with oil or diesel fuel.

C. Spin the fuel filter on and tight securely by hand. Hand tight is generally tight enough, but you can use a filter wrench to tighten an extra ½ turn.



# PureFlow® Technologies, Inc.

## AirDog® Filter Wrap Heater Kit

- 6) Now take the second filter wrap heater and hold it up around the fuel filter. Hold the heater together at the same at a spring location.
- 7) Use a pliers or a hook to pull a spring across the seam to latch the spring to a hook.
  - A. Repeat with the other spring/s.



## THE AIRDOG® FWHK HEATER WIRE HARNESS

**\*VERY IMPORTANT: The AirDog® fuel heater wire harness requires a 25-amp fuse (pre-installed).**



Fuel Heater Lead (8-2)

Battery Positive Lead - Red (8-5)

Battery Negative Lead - Green (8-4)

Relay Trigger Lead (No Connector/Plug) (8-3)

### Securing the AirDog® Wire Harness Relay to the Vehicle

8-1. Secure the AirDog® Heater wire harness relay to the vehicle. Here the relay is mounted on the firewall.



**AirDog® Filter Wrap Heater Kit**

---

8.2 Install the Y-adapter to the two fuel heater leads.



8.3 Route the AirDog® heater wire harness lead to the AirDog® FWH heater.



8.4 Connect the AirDog® heater wire harness to the Y-adapter. Fasten the wire harness securely to the AirDog® mounting bracket with a zip tie.



---

### Relay Trigger Lead

The Relay Trigger Lead must be connected to a contact point that is electrically “HOT” when the key is in the “RUN” position. This could be either in a spare fuse holder in the fuse panel or on the ignition switch itself.

**Note:** DO NOT connect the AirDog® wire harness relay trigger lead to a point that is “HOT” when the key is in the ACCESSORY position.

# PureFlow® Technologies, Inc.

## AirDog® Filter Wrap Heater Kit

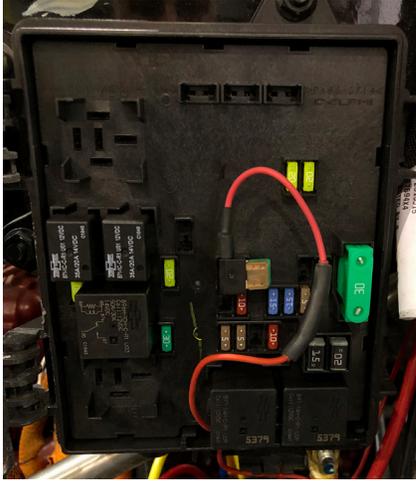
---

8-3. Connect the red relay trigger lead to a fuse holder in the fuse panel (using provided Add-A-Circuit) that is “HOT” when the ignition key is in the “RUN” position

**OR**

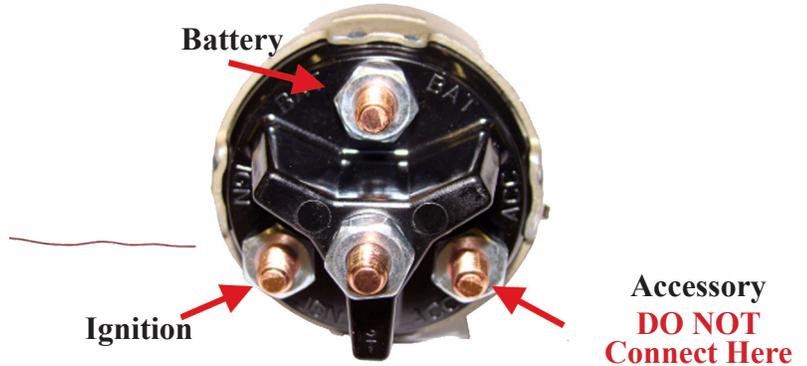
connect the red relay trigger lead to a terminal on the ignition switch that is “HOT” when the ignition key is in the “RUN” position.

**THIS**



**OR**

**THIS**



## CONNECTING THE POWER SUPPLY LEADS

The power supply leads can be easily connected to the appropriate contacts on the battery. Another alternative option would be to connect the power supply leads to the appropriate contacts on the alternator. Any high amperage terminal that is always “HOT” is OK for the Positive + (RED) lead. Be sure the NEGATIVE - (GREEN) lead is connected to a reliable chassis ground.

8-4. Route the red & green power leads to the battery. Connect the green (-) ground lead to the negative battery terminal post.

8-5. Connect the red (+) positive lead to the positive battery terminal post.



**NOTE: Use included 12” zip ties to properly secure harness.**



[www.airdogdiesel.com](http://www.airdogdiesel.com)  
**1-877-463-4373 or**  
**1-573-635-0555**

Copyright© 2016  
CD Patents, LLC

All Rights Reserved

Bulletin No. 206-9-FHK  
Revised July 30, 2025