

HHOG II ARID

Installation and Maintenance Instructions

We are pleased to bring you the HHOG II ARID and are glad you have decided to support HHOG Labs. It is our privilege to bring you the latest and greatest Hydroxy equipment in the industry, today. We are pleased to know that you have placed your own personal safety before anything else. That being said, by using any HHOG Labs device, you agree to hold us harmless of all risks associated with Hydroxy generation, and its use. The following is a brief overview of how to install and maintain the HHOG II ARID. We believe if you follow these simple instructions, it will bring you a long service life and help remove moisture and electrolyte condensate from your Hydroxy Fuel, keeping it clean and dry.

This unit is currently NOT rated for flashbacks. It is not designed to stop a flashback. Generally a flashback will pass uninterrupted through the HHOG II ARID. You should install a flashback arrestor (like the HHOG II SledgeHammer) on the output hose of the HHOG II ARID. It is not recommended for SUSTAINED FLASHBACK ACTIVITY. Though we tested it thoroughly, the HHOG II ARID is designed as a scrubbing and drying device to clean Hydroxy Fuel. It will not stop a flashback. You should never **purposefully** ignite the output line of your Hydroxy Generator, as this could cause you great bodily harm. You should construct a thorough safety plan.

Installing the HHOG II ARID

Installing the HHOG II ARID is as easy as installing a Flashback Arrestor. Simply install it on the output hose of your system BEFORE your Flashback Arrestor (between the flashback arrestor and your Bubbler). It's a "Plug and Play" device. The ARID can only be mounted vertically (as seen in FIGURE 1) so that the 1/8 NPT drain cock can drain liquid when it is opened. The INLET side is shown in FIGURE 2. The OUTLET is shown in FIGURE 3. Hose clamps are not necessary, but may help keep the hose from coming loose in areas of high vibration or from high-pressure scenarios. The ARID has NO internal user serviceable parts, and will continue functioning continuously for many hours, uninterrupted. The ARID should be installed so that the INPUT barb is level with the OUTPUT barb from your Bubbler.

Note the Inlet and Outlet Barbs, and installation orientation.

FIGURE 1



Installation Orientation

FIGURE 2



Inlet Barb

FIGURE 3



Outlet Barb

FIGURE 4



Drain Cock Closed

FIGURE 5



Drain Cock Open (for draining)

More on the HHOG II ARID

- 1) Do not drop the **ARID**. The outer body is ABS and PVC, and may become damaged.
- 2) Do not install the **ARID** close to engine “Hot Spots”, as excessive heat can damage the outer casing.
- 3) Though the **ARID** is designed to run uninterrupted for long periods of time, you should check on the fluid level build-up often. If your system produces excessive moisture, it is this moisture that the **ARID** is designed to remove. The drying chambers could fill quickly, depending on the output of your individual system. Generally, you should drain the **ARID** if you see liquid at about ¼ of the way up the clear drying chambers.
- 4) You can remote mount the **ARID**. Unscrew the 1/8 NPT drain cock and replace it with a 1/8 NPT to barb fitting. Attach a hose to this barb and run it down to an alternate location where you can install a remote drain cock. Mount the **ARID** where you want. This scenario will allow easy draining if you cannot easily get to the drain cock due to space constraints.
- 5) If you need to clean the internal components of the **ARID**, simply unscrew the top cleanout adapter plate. Wash the **ARID** out thoroughly with a mild vinegar solution to neutralize any electrolyte condensate. Rinse the inside out with distilled water, or warm tap water. Wrap the threads of the cleanout adapter with Teflon Tape, and screw it back on tightly. It’s that simple.
- 6) The **ARID** is designed to withstand 140-PSI backpressure, though we recommend no more than 100-PSI. We DO NOT recommend operating your Hydroxy equipment under this kind of pressure. Higher pressure increases your risk of explosion exponentially.

More information and safety tips:

The above tips are just a few maintenance tips to help you understand how to keep your HHOG II **ARID** in good working order. But the bottom line is, use common sense. Don’t ever underestimate the danger in the production of Hydroxy Fuel. Under optimum conditions, Hydroxy is the perfectly mixed stoichiometric [stoi-kee-uh-meh-trik] mixed fuel. This means it has both the fuel (Hydrogen) and it’s oxidizer (Oxygen) combined in a perfect ratio. It doesn’t require ambient air to ignite. In storage, it can ignite explosively with a simple spark, or flame. So take special care in it’s handling.

Follow the path of the gas. This means you should trace the gas backwards from its outlet to its production, and understand what role your safety measures play in keeping you safe. In a well-constructed safety plan, you should have **AT LEAST** the following setup:

Hydroxy Generator → Bubbler → ARID → Flashback Arrestor → Final Output

You should install a Pressure Relief Valve (like the HHOG II EPD v2) onto your Bubbler to prevent accidental ignition from damaging your bubbler. Some Generator configurations allow the installation of a Relief Valve on the casing. If this is the case with your setup, you should install a Relief Valve there, as well.

We hope this paper has been informative, and helped you. You can reach us with questions or comments at the following email address: contact@hhoglabs.com. We try to answer them within a couple hours, or as soon as possible.

Thank you for your business, and as always: BE SAFE!