

# StoveCAT™ Retro-Fit Installation Guide

Congratulations! You have purchased the GraceFire **StoveCAT™**, a revolutionary new Emission Control Device for wood burning stoves, heaters and furnaces. Follow these instructions carefully for safe and efficient operation. You will find additional information @ [www.healthyhearth.net](http://www.healthyhearth.net)

## The GraceFire StoveCAT Emission Control Device for Wood Stoves

The GraceFire **StoveCAT™** Emission Control Device from Healthy Hearth LLC is a revolutionary catalytic system designed especially for wood burning stoves. The **StoveCAT™** utilizes a patented three stage catalytic design to capture the pollutants from the wood burning fire without developing any backpressure or harmful blockage. The **StoveCAT™** Catalytic System provides secondary ignition for the wood smoke combustibles preventing them from leaving the firebox as particulate pollution. The direct flame on the catalytic surface actually cleans the catalytic unit.



The high temperature components of the StoveCAT™ are manufactured from high quality stainless steel by DuraVent, the world's largest venting component manufacturer. The catalytic components are state-of-the-art ceramic material from Clear Skies Unlimited. The **StoveCAT™** can either be installed by a chimney sweep or as a "Do-it-Yourself" project by the homeowner.

The **StoveCAT™** is easily installed. It doesn't require any power and only has one moving part which is internal. The **StoveCAT™** catalytic device is installed on the exhaust port of the wood stove. The installation of the **StoveCAT™** converts a conventional wood burning stove into a cleaner burning heater with better heating efficiency.

These instructions allow the homeowner to easily install the emission control device on the wood heater for safe and efficient use. **Follow all Safety Instructions.**

## Remove the Existing Connector Pipe from the Wood Stove

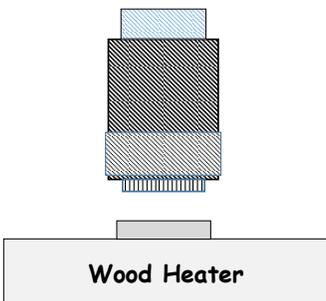
The **StoveCAT™ ECD** is 14" high. It is designed to be installed on a top mounted 6" exhaust port. You only need to remove enough connector pipe to make the installation. On the top of the **StoveCAT™ ECD** is a 6" DVL adapter from Duravent. It offers several connection options.



### CAUTION

Insure mounting surface on the wood stove is clean and free of creosote.

## Position the StoveCAT ECD on the Exhaust Port on the Wood Stove

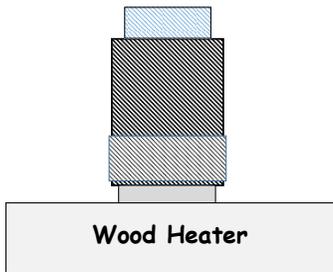


### CAUTION

A gasket is bonded to the bottom of the **StoveCAT™**. It will seal on the mounting surface of the wood stove. Insure that the gasket is in place prior to installation.

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## Align the StoveCAT ECD on the Exhaust Port

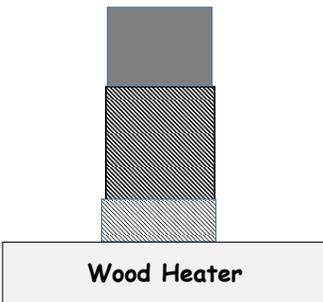


The weight of the **StoveCAT™** will properly seal the device on the wood heater. It simply rests on the exhaust port. There are no fasteners or mechanical connections.

### CAUTION

It is very important that the mating surface on the bottom of the **StoveCAT™** goes inside of the exhaust port on the stove. Insure that the **StoveCAT™** is aligned properly.

## Install the Connector Pipe



There are several different types of connector pipes on existing wood stoves. Generally, all of these pipes are 6" in size. The **StoveCAT™** is designed to be installed on a 6" exhaust port equipped with 6" stove pipe. Getting a proper pipe connection seal on the top of the **StoveCAT™** is an important safety consideration.

### CAUTION

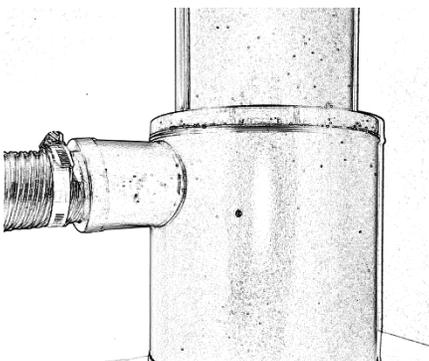
It is very important that the pipe connected to the **StoveCAT™** is installed properly without any leaks. Wood smoke is very dangerous and cannot be allowed to enter the living area.

## Flexible Air Intake Line

All catalytic technologies require oxygen or combustion air to function properly. The **StoveCAT™** ECD is equipped with a 36" long 2" ID aluminum flexible air line that provides combustion air to the catalytic components during operation. The combustion air mixes with the hydrocarbons in the wood smoke and fires the catalytic technology. The combustion air line should be the last **StoveCAT™** component to be installed.



## Installing the Flexible Air Intake Line



The last step in the installation of the **StoveCAT™** is to connect the flexible air line to the air intake on the retro-fit device. The end of the air line is designed to slip over the 2" connection on the air intake. A 2" hose clamp is included with the flex hose. The hose clamp should be tightened around the end of the flex line until the connection is hand-tight. **DO NOT USE ANY TOOLS OTHER THAN A SCREW DRIVER TO INSTALL THE CLAMP.**

Once the flexible air line is connected, the airline should be shaped to create a bend downward around the back of the stove. The bottom of the airline should have at least 3" clearance from the floor without any objects nearby.

### CAUTION

The first time that the wood stove is operated after installation of the **StoveCAT™**, the stove should be monitored for any smoke spillage. Check the mounting connection on the top of the stove and the connector pipe for any leakage.