

# Examples of DNA Filter Installation

## Introduction

DNA Line Filters are used to reduce Dirty Electricity (DE) on the AC power lines.

There are 2 basic varieties of DNA Filters:

-- **DNA Parallel Filters**: that reduce DE between 5:1 to 60:1 and sometimes greater

-- **DNA Line Filters**: that reduce DE between 500:1 to 2000:1 and sometimes greater

## DNA Parallel Filters

These are a "plug-in-the-wall" type of appliance. They do not require any special talent in Electrical Engineering or the Electrical Trades to install this filter type per se.

However one of the best installation locations for a Parallel Filter is right at the main Circuit Breaker Box and there may or may not be outlets available there for connection of the Parallel Filter.

Therefore it may be required to hire an Electrician to install 2 outlets (residential US application) right at the Circuit Breaker Box to allow filtering on each Phase (see below). This Electrician task is a small amount of work.

The first image below shows the installation of 2 Parallel Filters at the main Circuit Breaker Box. The installation of the Parallel Filters here will reduce DE from the incoming power utility, any DE from a solar or wind inverter, and to a degree, any DE that is generated internally within the facility (home, office, etc).

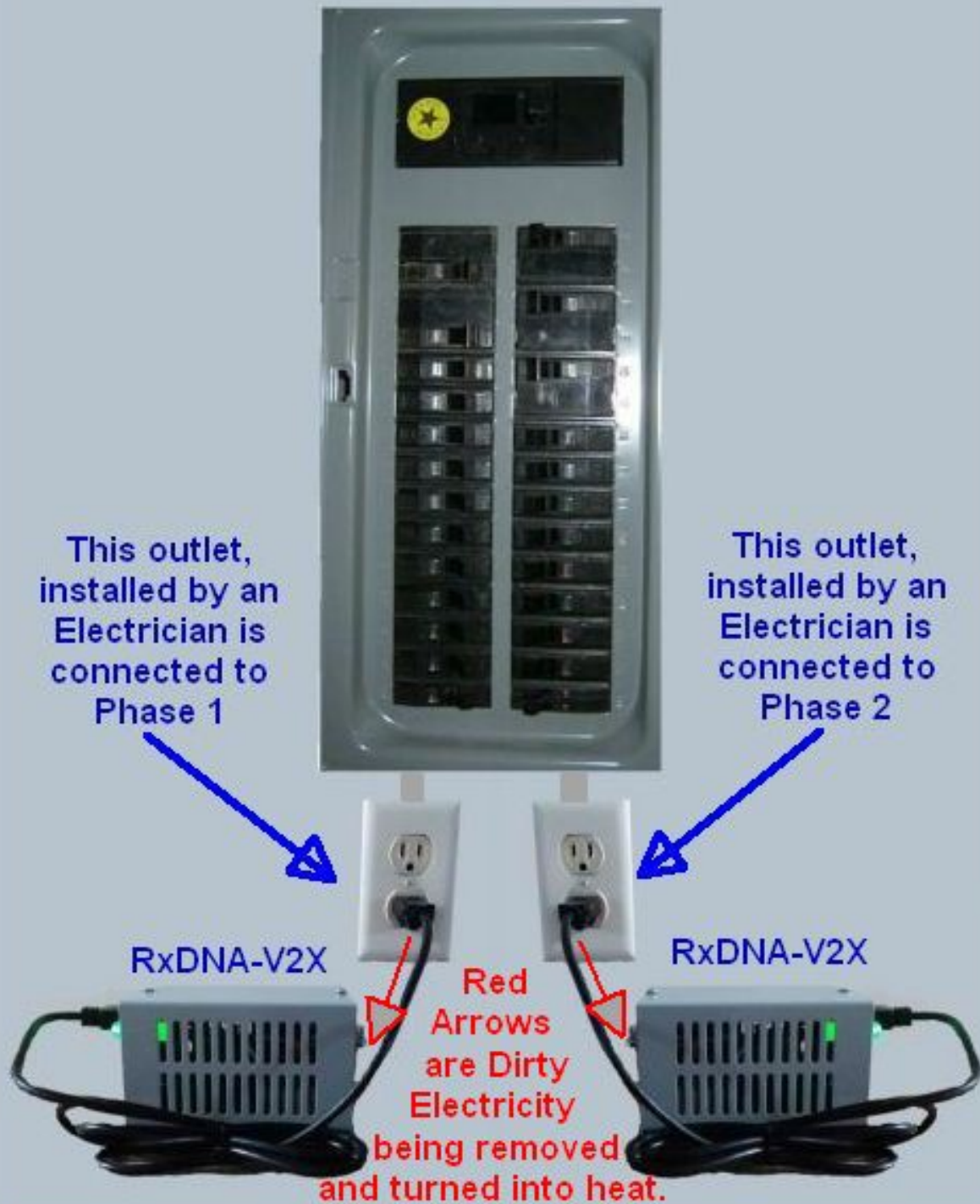
## DNA Line Filters

These are installed in a way to carry all of the AC power that it is filtering. They require an Electrician to install them and it is a significant amount of work to accomplish this.

DNA Line Filters can be applied to filter the DE from an inverter, such as a solar inverter. In addition, DNA Line Filters can be applied to remove DE from the incoming AC power as delivered by the local power utility company.

In the (second) example below, an annotated image is given of a DNA Line Filter installation for a solar inverter DE reduction application.

## Rxdna's Connected At Circuit Breaker Box



## DNA Line Filter With Solar Inverter

Solar Inverter

DNA Line Filter

Circuit Breaker Box



**Green Arrow** above is clean DC Power, from the Solar Array, going into the solar Inverter to be converted into AC Power.

**Red Arrow** above is Dirty AC power from the Inverter going into the DNA Line Filter to be cleaned.

**Green Arrow** above is Clean AC Power from DNA Line Filter entering the Circuit Breaker Box