# QuikPure3®

OZONE OXIDATION SYSTEM

# Installation Instructions & User Guide

A&A Manufacturing

Rev. 20200115

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# Prior to Installation

WARNING

To reduce the risk of injury, the QuikPure3 must be installed by a licensed or certified electrician or a qualified pool professional adhering to National Electric Code and all applicable Federal, State and Local codes and ordinances.

**Bonding**

A grounding lug marked with this symbol ( ), is provided on the internal surface of the units' electrical compartment. To reduce the risk of electrical shock, connect a minimum of 8 AWG wire (6 AWG in Canada) from the external grounding lug to the local common bonding grid in the pool or spa area. All field-installed metal components within 5 ft (3m in Canada) of the pool or spa, must be bonded to the local common bonding grid.

ATTENTION

This unit is intended for indoor or outdoor use in the United States and indoor use only in Canada.

## IMPORTANT

**This unit must be located no less than 3.28 ft (1 m) horizontally from the pool or spa.**

## Included

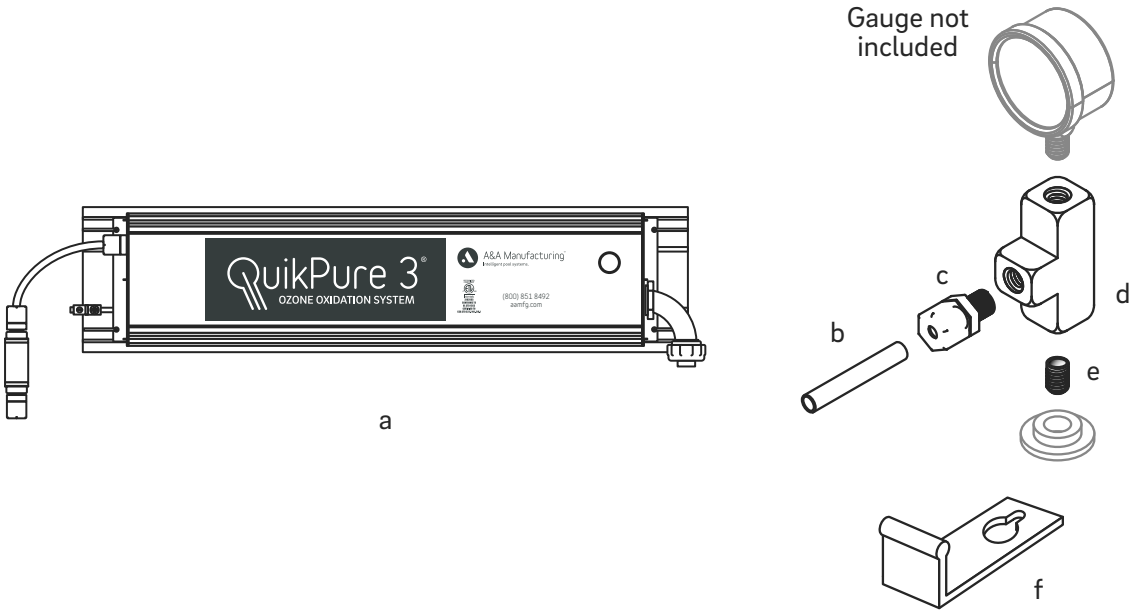
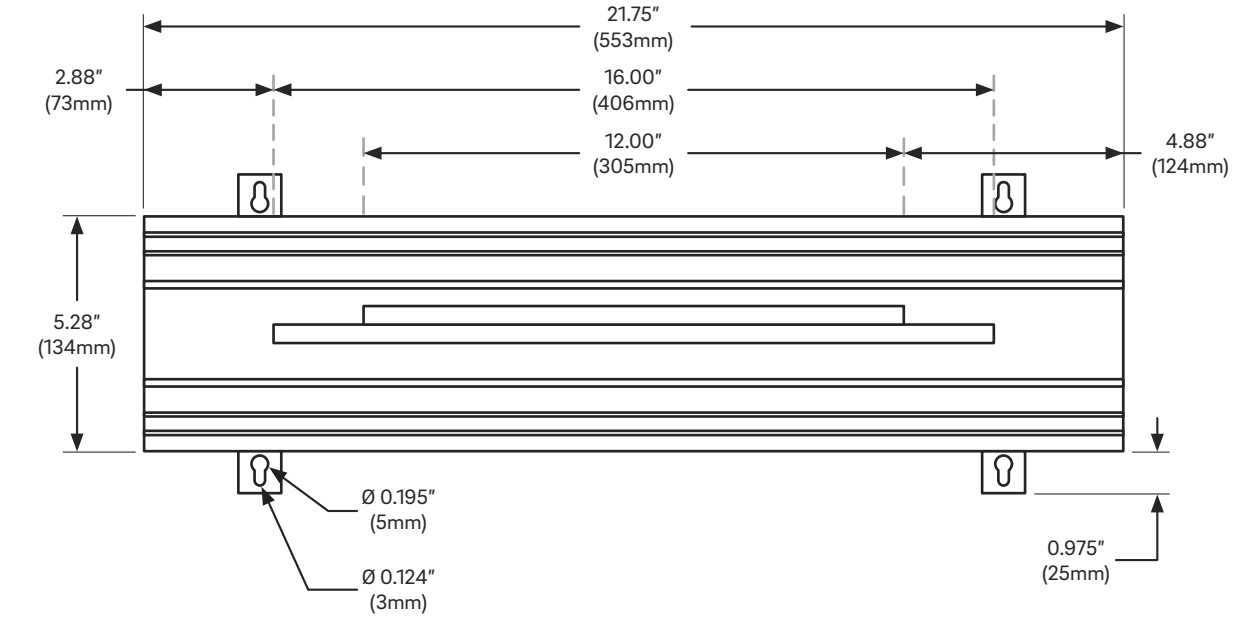


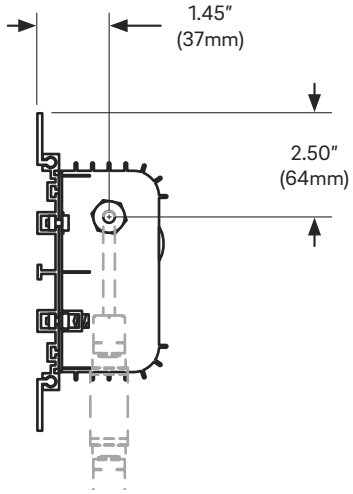

**Figure 1**

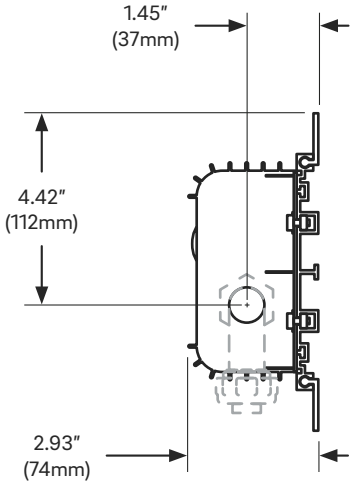
a. Ozone generating unit
b. 0.25" NPT to 0.25" tubing fitting (qty 2)
c. 0.25" brass Tee
d. 0.25" brass nipple
e. 0.25" tubing +(10' length)
f. Mounting clips

## Dimensions







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## Mounting the Unit

Using the included mounting clips (Figure 1f), mount the QuikPure3 no further than 8 feet from the suction connection of the pool or pump. The unit should be mounted level, in a horizontal position, with the QuikPure3 label right side up and a minimum of 1 ft above the highest water level and never exceeding 5 ft above; this includes elevated spas (Figure 3).

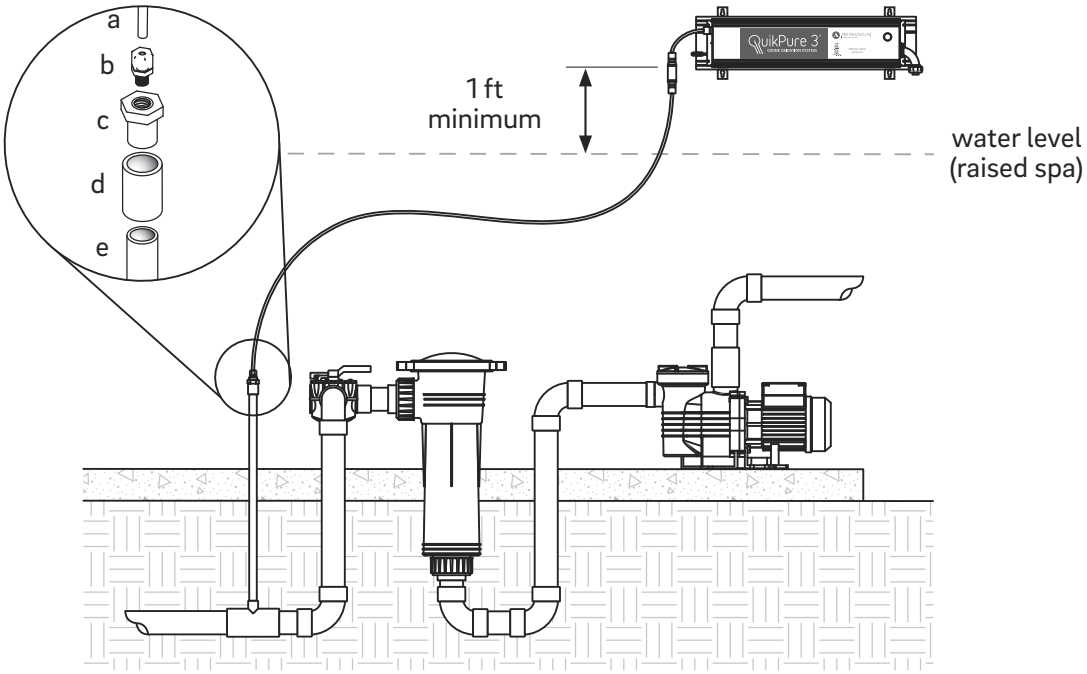


**Figure 3**

## Installing the Injector on New Applications

Method 1:

1. Construct a standpipe out of 0.5" Schedule 40 PVC (Figure 3e), making sure that the connection point off of the main suction line will be under water level. Glue a 0.5" coupling onto the 0.5"" PVC pipe and then glue in a 0.25" NPT to 0.5" adapter (Figure 3c) into the coupling.

2. Utilizing an active stand-pipe on the suction side of the pump, as the injection point for ozone delivery. Use one of the included 0.25" NPT to 0.25" tubing compression fittings (Figure 3b), thread this into the threads of the adapter at the top of the stand-pipe (Figure 3c).

3. Measure out a sufficient length of the included 0.25" tubing (Figure 3a), ensuring that there is enough tubing to avoid any sharp bends at the tubing fittings. Connect this tubing between the 0.25" NPT to 0.25" compression fitting installed on the stand-pipe and the factory installed check-valve assembly on the QuikPure3.

Method 2:

1. The venturi injector manifold is the recommended method for delivering ozone into the pool or spa system. When installing, a vertical or horizontal position can be utilized in order to accommodate for conditions where limited space is available and the unit should be installed on a separate return line, avoiding the in-floor valve (Figure 4). This injector manifold incorporates a 2″ check-valve into the design that will self adjust based on the amount of flow passing through the manifold, ensuring that flow rates between 54-90 gpm are maintained.

2. Measure out use a sufficient length of the included 0.25″ tubing in order avoid any sharp bends at the tubing fittings. Attach this tubing between the 0.25″ fitting on the injector and the factory installed check-valve assembly on the QuikPure3.

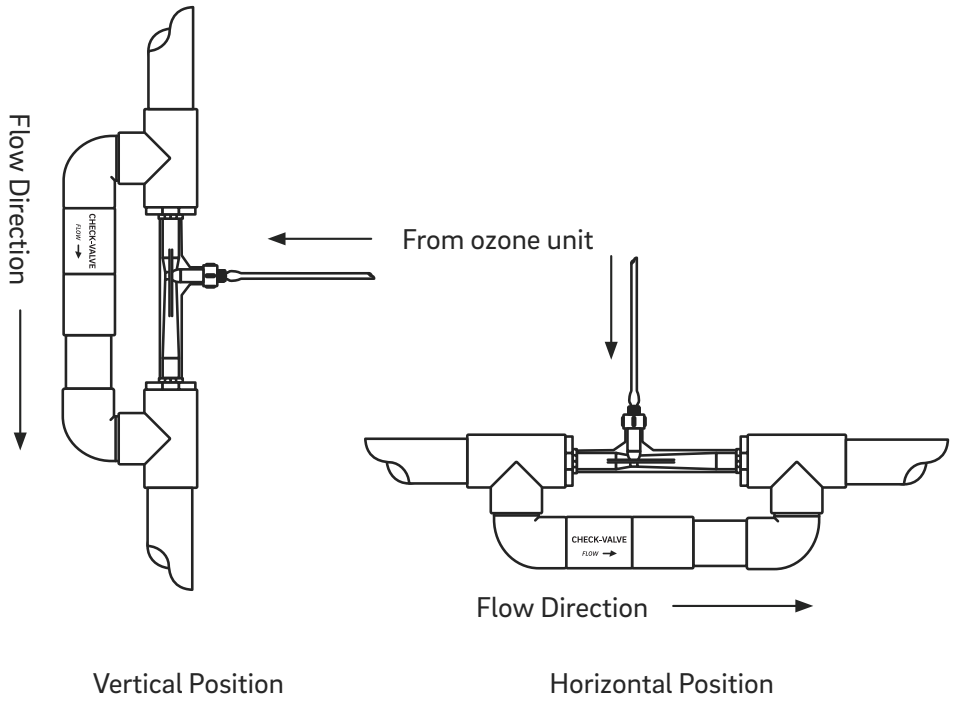


**Figure 4**

## Installing the Injector on Existing Applications

The venturi injector manifold is designed to be installed on a separate return to the pool, not directly through the in-floor system. However, when adapting to an existing system, this may not be possible. If this is the case, the best solution is to install the injector after the pump and before the filter, accompanied by the filter bleed-line kit.


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## Bleed-valve Instalation

1. Remove the pressure gauge (Figure 5c) or air bleed valve on the top of the filter (Figure 5a) and join the 0.25" close nipple (Figure 5a) and 0.25" brass Tee (Figure 5b) together. Screw the 0.25" nipple into the opening where you removed the pressure gauge or the air bleed valve. Install the 0.25" NPT to 0.25" tubing compression fitting (Figure 5e) into one of the remaining threaded openings on the 0.25" brass Tee in a manor that will result in the least bending of the bleed 0.25" tubing (Figure 5f) and re-install the pressure gauge or bleed air valve into the last remaining opening on the 0.25" brass Tee.

2. Take care to drill a 7/16" hole in the return header where a fitting and pipe are glued together, as close to the filter as possible. This will ensure there is enough plumbing thickness to provide adequate thread depth (Figure 5g) for the 0.25" NPT tap. Once the pipe has been tapped, install a 0.25" NPT to 0.25" tubing compression fitting (Figure 5e). Using some of the remaining 0.25" tubing, attach one end to the 0.25" tubing to the compression fitting in the header and the other end to the compression fitting on the filter (Figure 5). It is important that you use a sufficient length of tubing to avoid any sharp bends at the tubing fittings.

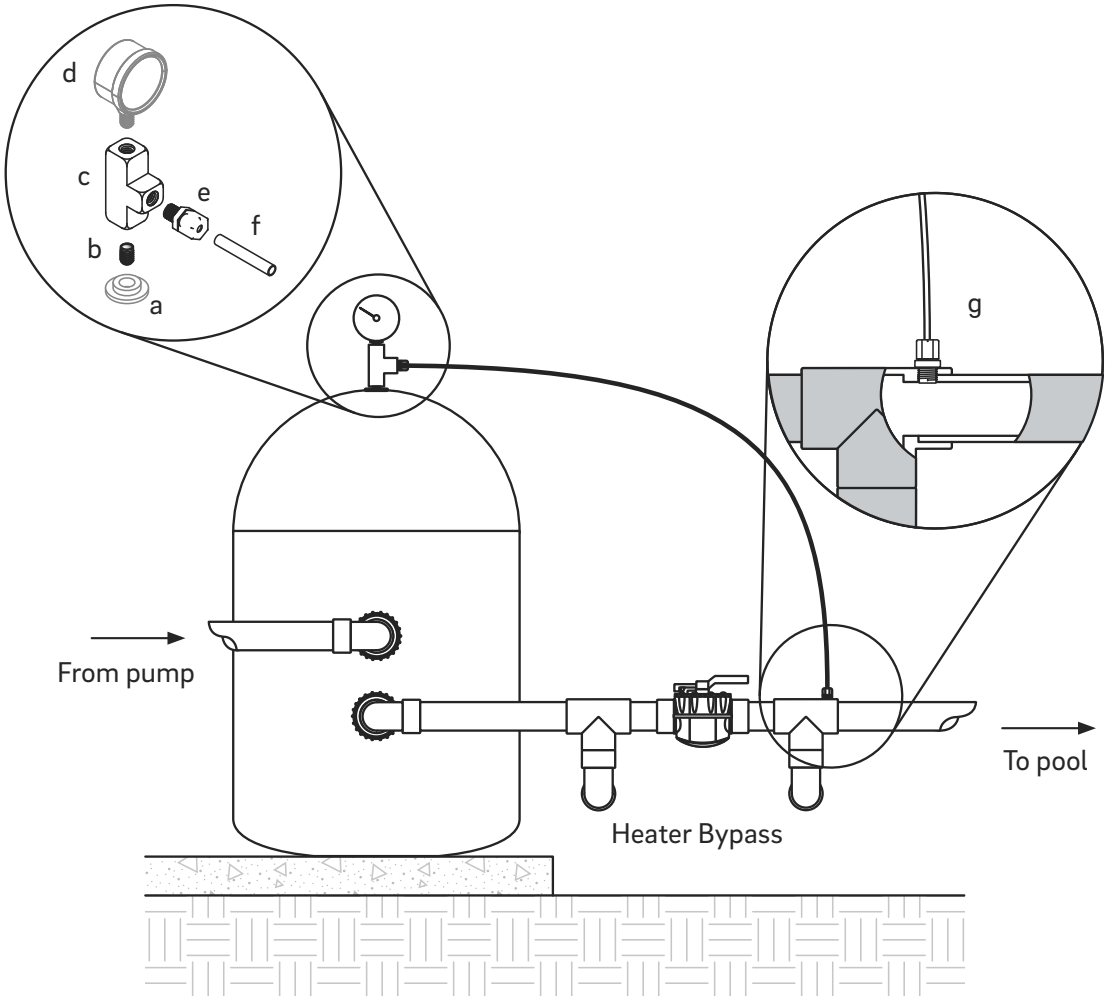


**Figure 5**

## Electrical Connection

1. Before attempting this installation, make sure that the circuit breaker is in the OFF position and all power to the equipment is OFF. All electrical wiring must be installed in accordance with local and national codes.

2. The unit comes factory installed with one ½" rain-tight electrical connector for flexible conduit and 12 ft of 12 AWG stranded wire. The wires must be connected to the load side of the control device used to activate the pool pump. This unit must run only while the pool pump is running.

3. The ballast voltage for this device is factory set to 240 VAC, but can be changed to 120 VAC by removing the cover from the unit and setting the voltage selector switch on the ballast to the correct voltage setting. The black and white wires that receive source voltage on the ballast are not specific. The ballast utilizes a 2-wire hook-up, allowing the installer to administer 240VAC (two 120V lines) or 120VAC (one 120V line & one Neutral) depending on the need during installation.

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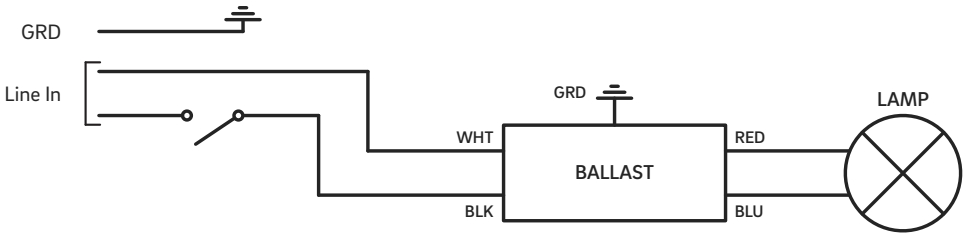


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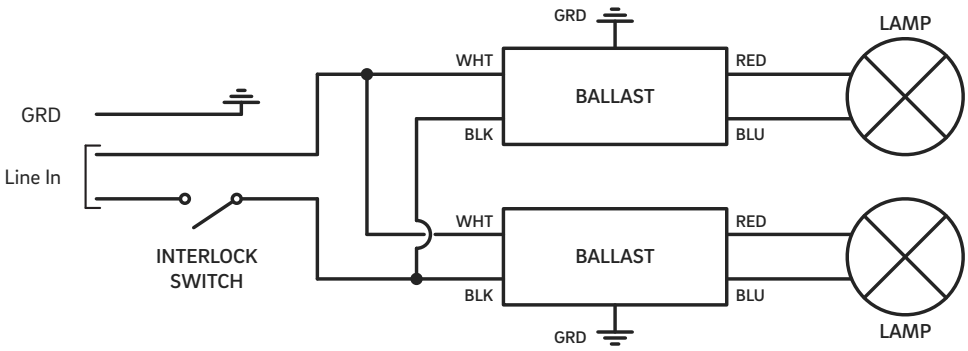


**Figure 6**


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## Startup

To achieve optimal results at startup, the pool should be as clean as possible. However, this is not always possible to do before activating the QuikPure3 for the first time. As a result, the pool water may initially become cloudy when the operation begins. This is result of any number of seen and unseen contaminants being oxidized in the water, such as chloramines or other biological contaminants. This is only a one time event and water will typically clear up in about in three days. To alleviate this potential issue at startup, the following steps should be taken:

1. Backwash or clean filters before starting the QuikPure 3 (retrofit installations).
2. Super chlorinate the pool water using a chlorine based shock treatment.
3. Test the pool chemistry and balance the pH between 7.2 - 7.6 and the Total Alkalinity (TA) between 80 - 120 ppm.

## Normal Operation and Maintenance

The only maintenance required will be to check that the UV lamp is operating, indicated by a blue/green glow through the lens on bottom left-side of the unit and that air bubbles coming out of the pool returns.

Most filters have internal bleed lines, but frequently they get clogged, this is why the QuikPure3 ozone generator is equipped with its own air bleed line. At some point it may become necessary to remove the bleed line from the fitting on top of your filter, in order to clean any obstructions that may be causing air from building up in the filter tank and getting back to the pool.

# Limited Warranty

To original purchasers of this equipment, A&A Manufacturing will warrant the QuikPure3 ozone oxidation system sold by A&A Manufacturing, from defects in materials and workmanship for a period of two years from the date of purchase.

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care or any Acts of God. Parts that fail or become defective during the warranty period shall be repaired or replaced, at A&A Manufacturing's option, within 90 days of the receipt of defective product, barring unforeseen delays, without charge. Proof of purchase is required for warranty service. In the event proof of purchase is not available, the manufacturing date of the product will be the sole determination of the purchase date. To obtain warranty service, please contact the place of purchase. A&A Manufacturing shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

The A&A Manufacturing warranty applies to components supplied by authorized dealers only. It does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply. The express limited warranty above constitutes the entire warranty of A&A Manufacturing with respect to its pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall A&A Manufacturing be responsible for any consequential, special or incidental damages of any nature.

**Please retain for your records.**

Date of Installation _____



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# A&A Manufacturing

## QuikPure3 Ozone Oxidation System Warranty Registration Card

Directions: Please Fill out bottom portion completely and mail within 30 days of purchase or register your product online at www.aamfg.com

Please Mail to:
ATTN: WARRANTY DEPT,
A&A Manufacturing
3750 W Indian School Dr, Phoenix AZ 85019

**PLEASE PRINT CLEARLY**

Owner Information

First Name _____ Last Name _____

Street Address _____

City _____ State _____ Zip _____

Phone Number _____ Purchase Date _____

E-Mail Address _____

Product Model Number _____

Original Purchase Information

Company Name _____

Address _____

City _____ State _____ Zip _____

Phone Number _____



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